



April 22, 2025

Marc Rider, Executive Director
Ulster County Resource Recovery Agency
P.O. Box 6219, 999 Flatbush Rd.
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Re: Ulster County Local Solid Waste Management Plan (LSWMP) Biennial Update,
Reporting Period 2022-2023

Dear Marc Rider:

Ulster County submitted a revised Biennial Update along with additional information which was received by DEC on April 10, 2025. The New York State Department of Environmental Conservation (DEC) has reviewed the submittal and has determined that it adequately addresses all the LSWMP Biennial Update elements as required by 6 NYCRR Part 366-5.1. The Biennial Update is hereby approved.

To ensure the County's LSWMP is effectively maintained throughout the approved planning period, it is essential for the County to fulfill all commitments and responsibilities outlined under 27-0106(2) and 27-0107 of the ECL, 6 NYCRR Part 366, the approved LSWMP, and the approved Biennial Update. It is also important to note that maintaining the County's approved LSWMP is one of the eligibility criteria for state assistance programs (grants) for waste reduction and recycling activities. More information on these grants can be found on DEC's website at <https://dec.ny.gov/environmental-protection/waste-management/grants> or at RecyclingGrants@dec.ny.gov.

DEC thanks you for your continued efforts to implement the County's solid waste management program. The next Biennial Update will be due October 1, 2026. If you have any questions concerning this letter, please contact Jesalyn Claeys via phone at 518-402-8678 or by e-mail at planning@dec.ny.gov.

Sincerely,

Paola Munar Moreno

Paola Munar Moreno, P.E.
Supervisor
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October 1st 2024

Paola Munar-Morena
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Re: Ulster County Resource Recovery Agency (UCRRA) Local Solid Waste Management Plan (LSWMP - Biennial Update 2022-2022

Dear Paola Munar-Morena,

The Agency is pleased to submit to your attention a Biennial Update to our LSWMP, which was originally approved on March 24th 2021. As required by 6 NYCRR 366-5.1, Biennial updates must be submitted to the Department every two years, is due by October 1st, 2024. We understand that the submission documents are subject to review, consideration, and comment, and we look forward to hearing from you. Should you have any questions or require additional information, please do not hesitate to reach me at APEO@UCRRA.ORG or at (845) 336-0600. Thank you for your consideration.

Sincerely,

Angelina Brandt
Director of Sustainability
Ulster County Resource Recovery Agency

CC: Marc Rider, Executive Director MRID@UCRRA.ORG

Ulster County Resource Recovery Agency Local Solid Waste Management Plan Biennial Update (revised January 2025) Planning Period 2022-2023

Prepared by
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FOREWARD

In 1986, the Ulster County Legislature obtained authorization from the State Legislature for the creation of the Ulster County Resource Recovery Agency (“UCRRA”, “the Agency”), a public benefit corporation formed for the purpose of developing, financing, and implementing a comprehensive Countywide solid waste management program. For over 30 years, UCRRA has been actively pursuing its mission to protect public health and the environment, promote sustainable practices and efficiently manage solid waste with a focus on resource conservation. The ten year 2020-2029 Local Solid Waste Management Plan (LSWMP) was developed with the goals of continuing the mission and vision of the Agency while actively looking forward for innovative, environmentally responsible, and cost effective approaches to sustainable materials management. *This document serves as the Local Solid Waste Management Plan Biennial Update for Year 3 and Year 4 of the Plan, pursuant to 6 CRR-NY Part 366-5.1.*

In the first two years of this plan (2020-2021) the Agency faced many challenges in completing some objectives of the original LSWMP. Notably, New York State was among the regions most critically affected by the global coronavirus pandemic (COVID-19 or SARS-CoV-2) which posed many challenges discussed in the last biennial update. Simultaneously, the Agency managed a significant shift in executive leadership during this time period. However, the Agency also celebrated accomplishments: improvements at the Organics Recovery Facility, a weigh-scale replacement capital project, investigating options for landfill alternatives, dynamic growth in its education programs, and ongoing data collection about the local waste stream.

During the 2022-2023 planning period, the Agency continued to face challenges in completing some objectives of the LSWMP. Changes in executive leadership continued as the Agency’s Controller, Timothy Degraff, maintained dual responsibilities as the Agency Executive Director and the Controller. Ultimately, Degraff returned to his previous role in Finance in Spring 2022. The search for a new Director lasted six months, effectively holding up any major new initiatives as the Agency’s Board of Directors wanted input from an incoming Executive Director before taking on any new significant projects. The Board recruited Greg Ollivier, of Bakersfield California, whose term at the Agency included research into mattress recycling, facing strong public opposition to the Agency’s activities regarding the feasibility of a countywide landfill, and he presented the Board of Directors with various other concepts for initiatives that were largely discussed but not pursued. Ultimately, Ollivier served in this position for ten months before the Board of Directors unanimously voted to terminate Ollivier’s

contract. In the Fall of 2023, the Board hired an interim Director, Anna Ropollo, and launched a new search for the Agency's next Director.

Despite the challenges of navigating major transitions in executive leadership, including resignations from two Board members, the Agency effectively maintained operations very successfully and continued to work towards objectives of its long term plan. While major projects may have been delayed, the Agency invested in other meaningful facility improvements such as: launching its bagged compost product after many years of planning; completing various blacktopping and drainage projects at both sites; a road repair project was completed at the Ulster Closed Landfill; MRF maintenance and safety issues were addressed by installing new LED lighting; new equipment was purchased, such as a new Roll-Off truck and several used vehicles/machines (Sweeper, Maintenance Truck, Dump truck) as well as a Skid Steer Loader for the MRF and Excavator for the Ulster Transfer Station. The Agency was proactive in its goals for improving organizational administration: the Agency hired a dedicated MRF mechanic in 2022; the Board of Directors approved revisions to job descriptions for the Data Analyst and Compliance Officer job descriptions in 2023. And efforts to improve board governance structures were revisited in 2023.

The Agency maintained long term planning strategies by continuing to survey large waste generators, working with the County to monitor implementation of the new composting law, proactively collecting data about the waste stream, and continued its annual Waste Audit with SUNY Stony Brook's Waste Data Analysis Center. The Agency took steps to investigate new waste technologies and final disposal solutions. Drafted at the end of 2022 and released in the first quarter of 2023 were a Request for Proposals (RFP) and a Request for Statements of Interest (SOI). The RFP considers the feasibility of a countywide landfill, among other options. The SOI solicits new ideas and/or technologies to maximize landfill diversions. Further, the Agency Board and staff engaged with a planning team working on a County project to investigate the feasibility of creating a Reuse Innovation Center in the County which would further steward reusable materials for their highest and best use, analysis of which is presently still ongoing.

The Agency excelled at expanding its educational projects, reach, audience, and program impacts. The Agency's Recycling Outreach Team created a new volunteer training and certification program to invite knowledgeable community members to engage in some of its outreach activities. The staff grew participation in local composting efforts through consultations and support for school composting and new residential drop off programs in the City of Kingston, the county's largest municipality. New milestones were achieved in terms of the number of classes, tours, tabling events, and people reached by all programs in all areas. The Recycling Outreach Team completed a project to provide local Municipal Recycling Drop

Off Centers with updated, new recycling signs, customized for the source-separation at each unique site. The staff successfully pursued grants to fund existing and new projects, and implemented many community engagement initiatives despite the transitions of executive leadership and other challenges.

Above all else, the Agency excelled in its primary directive to ensure that Ulster County's waste is managed in an environmentally-sound, financially responsible manner while also seeking ways to maximize diversion and manage materials with a focus on resource conservation. Moving forward, the Ulster County Resource Recovery Agency is committed to implementing the strategies, tools, and goals that meet the essential needs of the community for the successful continuation of Ulster County's solid waste management program. The Agency has been proactive in evaluating long term disposal solutions while simultaneously looking at options for new program areas of growth in terms of recycling, composting, materials reuse, and making Agency operations more efficient and environmentally-friendly. This biennial update will provide a comprehensive accounting of these activities and further develop many new updates to the implementation schedule that more accurately align with the ongoing momentum of this work and align with the staff taskwork and program focus ahead.

The Local Solid Waste Management Plan is a valuable tool for the decision-making process and should be resourceful, detailed, concrete and as realistic as possible to ensure this planning tool can be useful. The guiding principles established in the last biennial update (below) continue to provide a clearly communicated long term strategy for the Agency:

- Invest in sensible facility infrastructure development
- Maintain excellence and excel at environmental compliance standards
- Improve organizational administration
- Optimize transfer station waste diversions and resource recovery abilities
- Cultivate sustainable community systems for organics recovery and recycling
- Foster a culture of environmental sustainability through outreach education
- Seek effective, economical ways to reduce the Agency's greenhouse gas emissions
- Build strategic partnerships that enable regional coordination
- Investigate new waste technologies and final disposal solutions

I. SUMMARY REPORT

1.1 Changes in the Planning Unit

1.1.1 Planning Unit Members

The LSWMP discusses planning unit members (p. 14-15) and examples of distinct characteristics of certain communities. For the purpose of this biennial update **there are no notable changes in planning unit members.**

1.1.2 Population

The LSWMP discusses population metrics of the planning unit and noted that “a dramatic increase in population size during the 10-year planning is not expected to occur” (p.16). The plan also notes a historical pattern of residents from New York City moving into the Hudson Valley. During the last biennial update, it was noted that the global pandemic of coronavirus disease (SARS-CoV-2 also known as covid-19) prompted many families and individuals living in urban centers to relocate to suburban and rural areas, including many Ulster County communities. **While the total number of new residents in Ulster County is unknown at this time, the Agency recognizes that an increase in population could result in future increases of the waste stream, which was discussed during the last biennial update.**

1.1.3 Significant County Characteristics

The LSWMP discusses significant County characteristics (p. 17-19) and examples of various public and private facilities and enterprises in the planning unit, including law enforcement facilities, medical facilities, school districts, retail centers, food establishments, etc. In the last biennial update, the Agency recognized the impact of the COVID-19 pandemic on the local economy and that some retail and food businesses may not have fully recovered fully from the impact of covid-related issues. For the purpose of this 2022-2023 biennial update, **there are no significant changes in the planning unit that affect Agency operations at this time.**

1.1.4 Current Solid Waste Management Activities

The LSWMP summarizes current materials management activities in the planning unit (p.19-21) including materials accepted at UCRRA, a discussion of the Flow Control Law, and the general structure of how residents, businesses, and municipalities access various disposal and recycling programs. **The descriptions provided in the LSWMP still factually represent the general flow of wastes and recyclables in the planning unit. A discussion of any new**

changes to solid waste management activities are further discussed in Section 1.3 of this document.

1.2 Waste Generation and Disposal Data

The emphasis of the Local Solid Waste Management Plan had been on the waste stream specific to UCRRA facilities only, therefore data about waste and recyclables received by UCRRA facilities is discussed in this section. [UCRRA is not authorized to receive or process industrial waste, which is why it is not discussed in this section.] **This document is further enriched with waste and recycling metrics from UCRRA's annual survey of large waste generators [which includes some known sources of Industrial waste] (please refer to Section 2 of this document for this information.)**

Figure 1. Waste and recycling received by UCRRA Facilities 2022-2023, sourced from NYS DEC Annual Permitted Transfer Facility and Recyclables Handling & Recovery Reports.

MATERIALS	2022 TONS	2023 TONS
Municipal Solid Waste (MSW) *ULST = Ulster Transfer Station *NP = New Paltz Transfer Station	70,476.34 (ULST) + 47,881.07 (NP) 118,357.41	63,246.32 (ULST) + 43,584.87 (NP) 106,831.19
Construction & Demolition Debris *ULST = Ulster Transfer Station *NP = New Paltz Transfer Station	25,378.89 (ULST) + 7,740.28 (NP) 33,119.17	26,982.72 (ULST) + 8,869.12 (NP) 35,851.84
Biosolids	3,024	3,259.3
Old corrugated cardboard (OCC)	2,072.69	1,735.39
Mixed News (all grades)	1,896.86	1,707.91
Commingled containers	1,847.48	1,719.20
Glass	534.77	474.04
Source Separated Organics (SSO)	4,320.96	5,481.10
Yard Waste/Brush	1,138.49	1,149.17
Wood Chips	2,025.59	3,630.98
Clean Wood	270.21	247.27
Animal Mortalities	10.99	12.14
Electronics	181.79	147.71

Please refer to Appendix B - Miscellaneous Annual Reports for supporting documentation.

Figure 2. UCRRA Waste Disposal Trends *TONS (2019-2021)

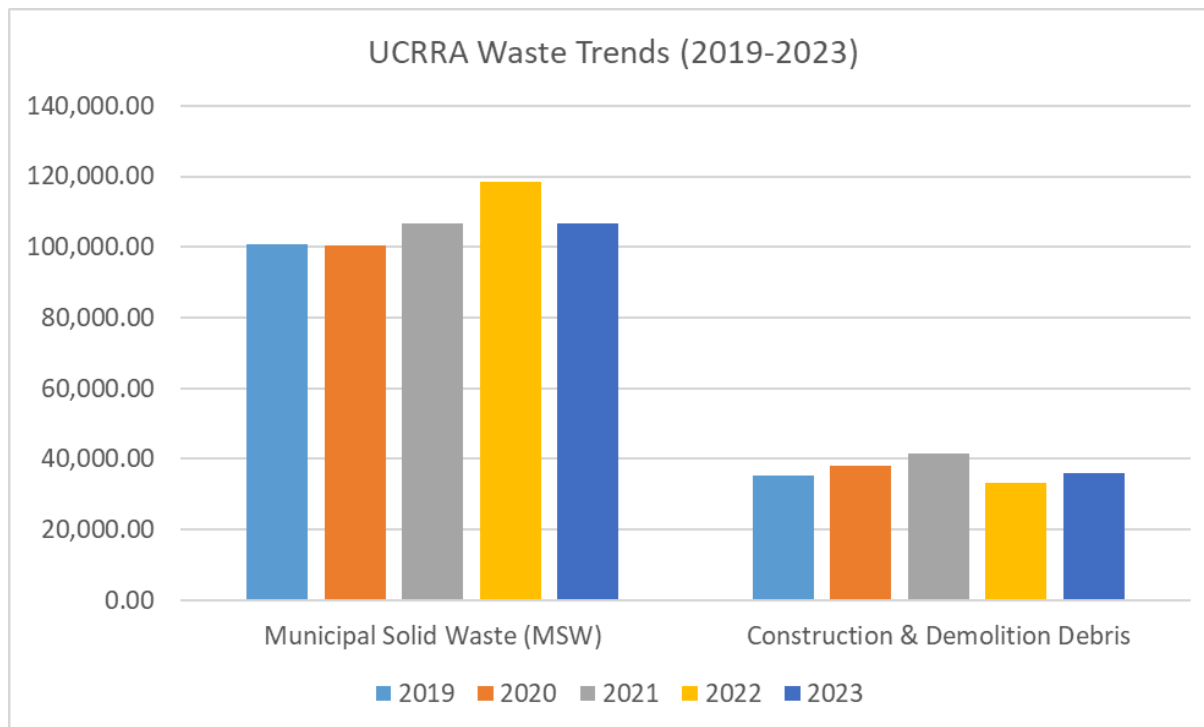


Figure 3. UCRRA Materials Recovery Facility Trends *TONS (2019-2023)

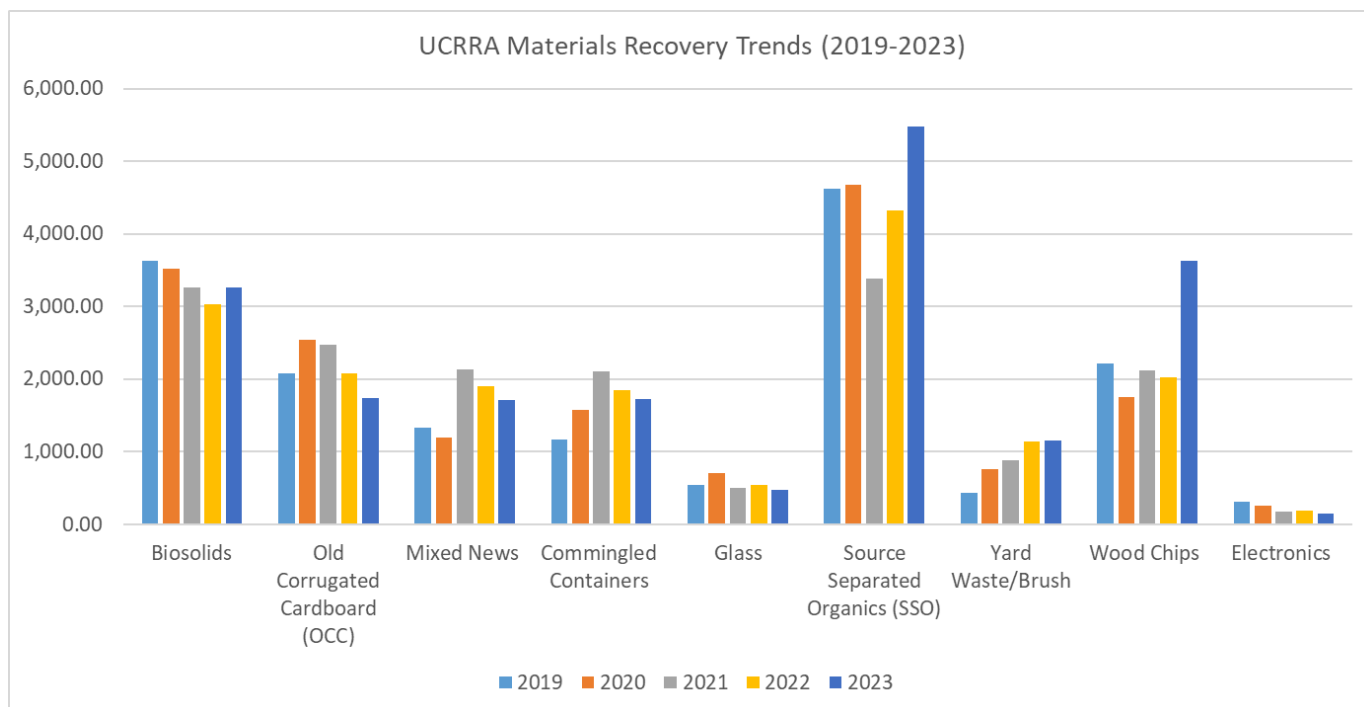


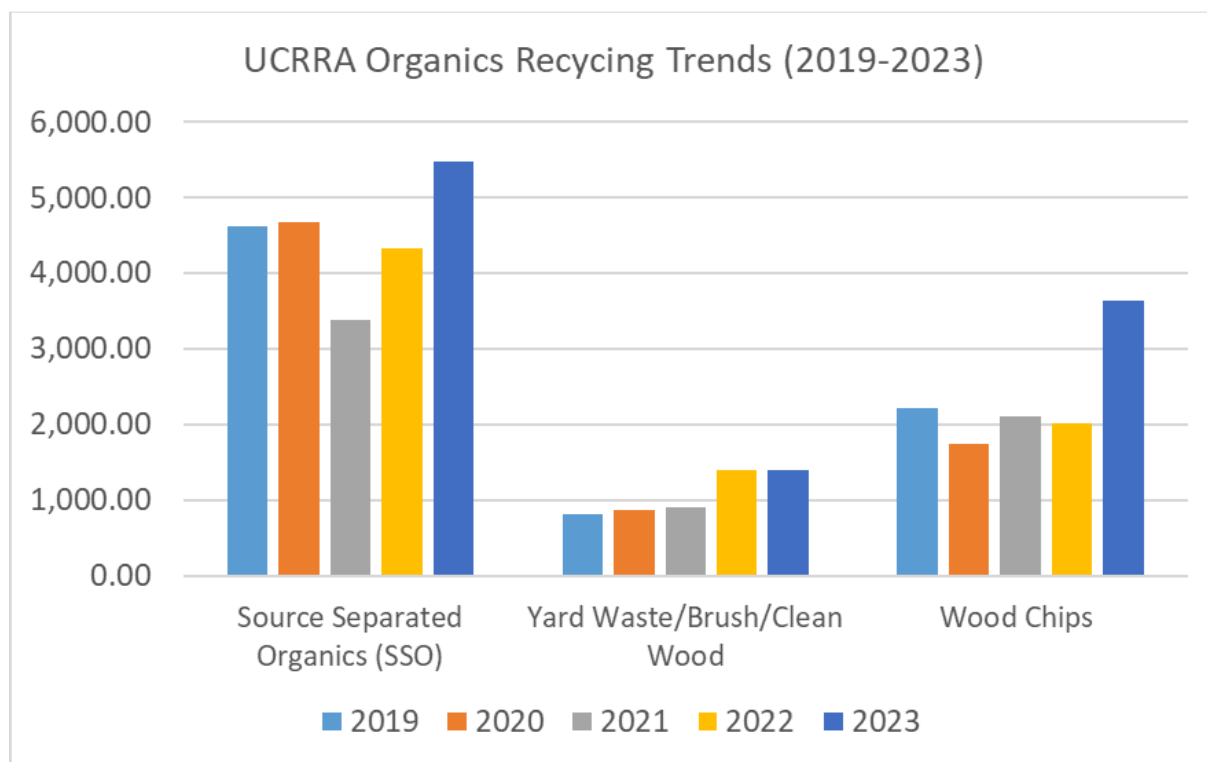
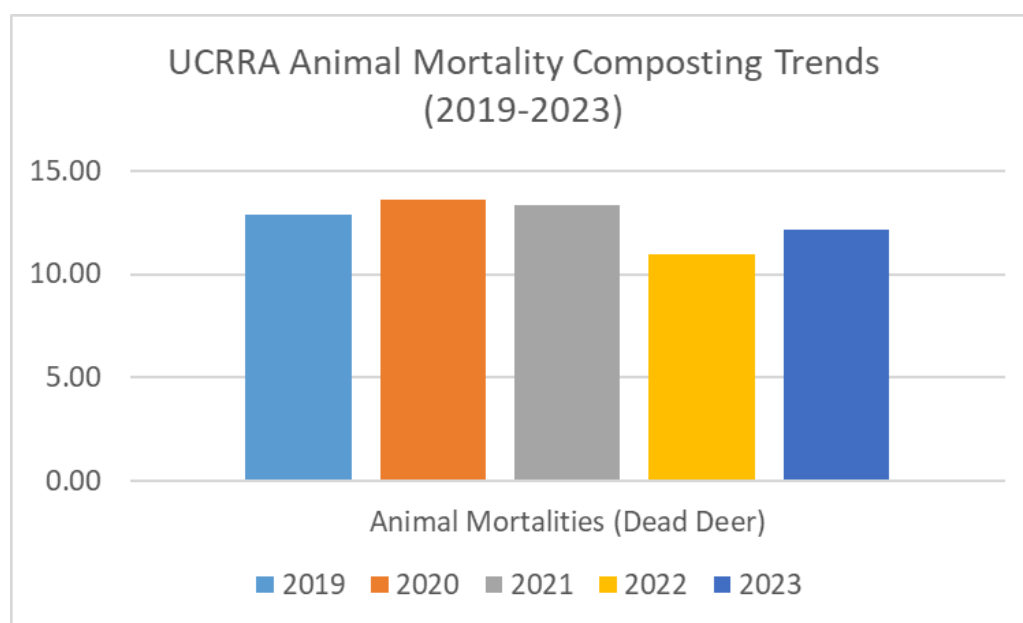
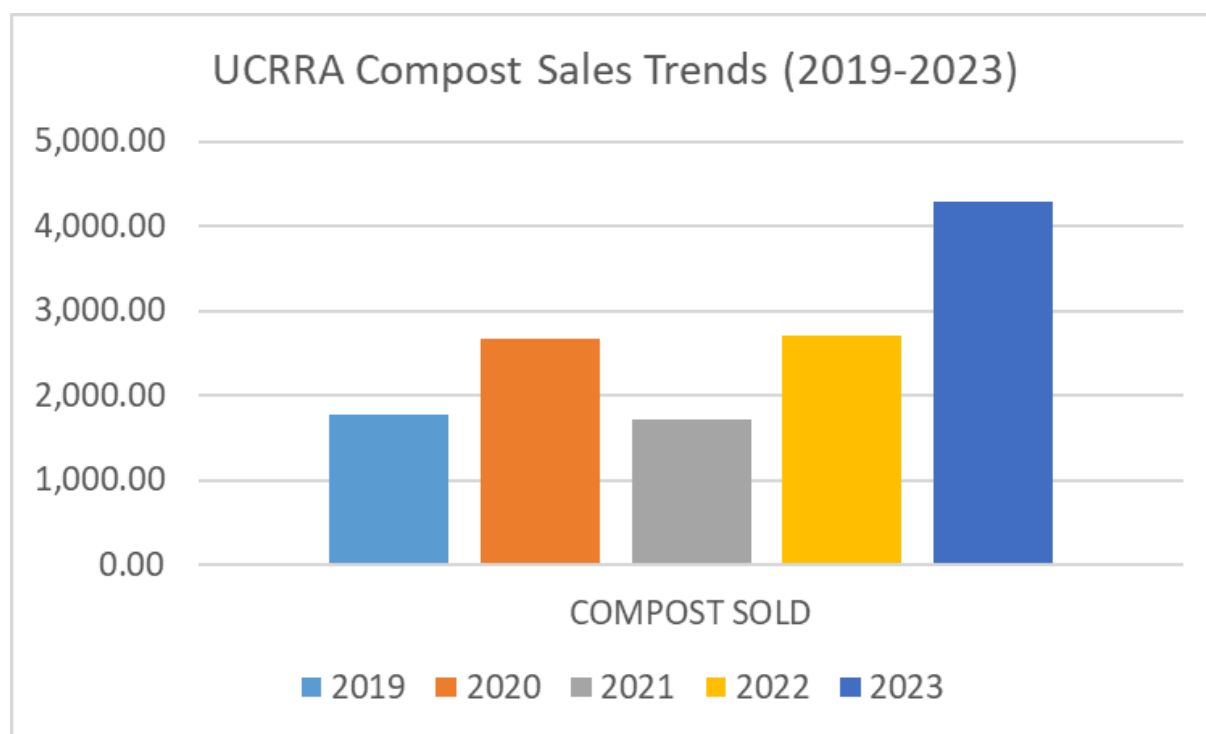
Figure 4. UCRRA Organics Recovery Facility Trends *TONS (2019-2023)**Figure 5. UCRRA Animal Mortality Composting (Dead Deer) *TONS (2019-2023)**

Figure 6. UCRRA Compost Sales Trends *TONS (2019-2023)

Section 4 of the original LSWMP discusses the Existing Solid Waste Management System. Section 4.1 discusses UCRRA Facilities (p. 33-36) and Section 4.10 discusses Waste Reduction Programs (p.50-57). At the time the plan was written, the document did not adequately discuss the waste diversion practices at UCRRA whereby strong protocols are in place for ensuring valuable or sensitive materials are removed from incoming mixed solid waste and used for their greatest recycling potential. For the purpose of this biennial update, this section will also present any available metrics about these transfer station diversion practices.

Removing materials from the waste stream requires a skilled workforce that is trained in all applicable health and safety considerations. The health and safety of the operations team and a safe work environment are prioritized over resource recovery potential. The Agency has successfully diverted materials such as millings, scrap metals, electronic waste, old corrugated cardboard, clean wood pallets, tires, and in some instances has recovered food for composting. [Fluorescent light bulbs, refrigerant-containing devices, and lead-acid car batteries are tracked by the Agency on a per unit basis, in accordance with the Agency's fee structure. Final weight metrics for these materials are provided by the Agency's vendor(s) who processes the fluorescent lamps, refrigerants, and scrap metal for recycling and disposal. [This document is further enriched with waste and recycling metrics from UCRRA's annual survey of large waste generators which includes specific volume to weight conversion factors for all

waste types that may be reported. Please refer to Section 2 of this document for this information, and Appendix D (D-3 or D-36) for a copy of the report's conversion factors.] The Agency will continue these diversion practices and actively seeks ways of safely and efficiently increasing tipping floor diversions where possible.

Figure 7. Waste diversions from UCRRA Facilities 2021-2023, sourced from NYSDEC Annual Permitted Transfer Facility Reports

MATERIALS	2022 TONS	2023 TONS
MILLINGS/RUBBLE	420.23 (ULST) 18.45 (NP)	333.18 (ULST) 45.07 (NP)
SCRAP METAL	474.43 (ULST) 6.97 (MRF) 114.96 (NP)	430.63 (ULST) 2.87 (MRF) 147.93 (NP)
ALUMINUM, COPPER, & WIRE	7.05	3.44
ELECTRONIC WASTE	87.81 (ULST) 14.99 (NP)	43.68 (ULST) 9.93 (NP)
OLD CORRUGATED CARDBOARD (OCC)	152.07 (ULST) 37.22 (NP)	126.76 (ULST) 36.80 (NP)
CLEAN WOOD	228.41	160.15 (ULST) 46.21 (NP)
FOOD WASTE	-	3.11 (ULST)
TIRES	30.11 (ULST) 13.87 (NP)	22.71 (ULST) 12.61 (NP)
YARD WASTES	-	-
TEXTILES	-	-
TOTALS	1,606.57	1,425.08
DIVERSION	1.06% (151,476.58)	0.999% 142,683.03

Please refer to Appendix B and C - Miscellaneous Annual Reports for supporting documentation.

1.2.1 Comparison to Waste Data Projections & Deviations

The basis of the Waste Stream Projections in the original LSWMP forecasted a 0.27% per year increase in population and a municipal solid waste reduction factor of 0.5% per year (p.151). Other scenarios were also discussed (p.31-32). It should be noted that the available data used at that time, and to this day, includes both residential and commercial waste combined, which the Agency does not have the ability to track separately, and this complicates calculating a true “pounds per person per day” evaluation.

The total annual municipal solid waste (MSW) data for 2022 is within a comparable range with the projections of the original LSWMP. The total actual MSW for 2022 was 119,069 tons. Compared to the 2022 LSWMP projection of 116,949 tons, this is a difference of 2,120 tons more than projected. [This is a relatively slight difference but may be attributed to a larger than expected increase in population (as noted in Section 1.1.2 Population) and/or a small fraction of waste processed by UCRRA that originates from out of the county. Additionally, during 2022, the ongoing impact of the COVID-19 pandemic, in many ways, continued to make this year an outlier for any reliable trending in waste flow, as noted throughout the Biennial Update from 2020-2021.]

In 2023, the total actual MSW was 106,774 tons. Compared to the 2023 LSWMP projection of 116,678 tons, this is a difference of 9,904 tons less than projected. [It is suspected that this large difference may be primarily due to a change in how operation staff evaluates and tracks loads of solid waste containing Construction & Demolition Debris, a practice that was improved during 2023 and resulted in more accurate characterization and tracking of incoming loads.]

It is important to acknowledge the variance and limitations of using theoretical models to calculate future waste generation. Agency business and financial decisions are more often based on actual trends in true tonnage received by the Agency, and as such staff compares actual tonnage trends on an annual basis.

As stated in the Agency’s Annual 2022 Comprehensive Financial Report:

“Overall, waste volume increased by 2.7% from the prior year. Predicting waste volume can be very difficult from year to year, but the implementation of Flow Control has allowed for less unpredictability. The recovery from the public health crisis due to COVID-19 continued to impact the makeup of waste. Commercial hauler volume increased as people returned to work and school. This led to a decrease in volume of

municipal MSW, which is made up of residential waste. Business self-haulers and related C&D volume appeared to have stabilized in 2022 as previously expected.

Total recycling/diversion volumes were comparable to the prior year. The main commodities (news, OCC, and commingle) decreased in direct correlation with municipal MSW, as a majority of these commodities is received from municipalities. [The Agency continued its practices of diverting materials from incoming solid waste received on the tipping floor, recovering items such as clean wood, scrap metal, clothing/textiles, cardboard, electronics etc. that resulted in increased diversion-based tonnage compared to the prior year. As a result, it is not surprising that the total recycling/diversion tonnage was similar to the prior year despite overall MSW and recycling trending down.] The biggest change in volume was an increase in food waste that was received. Food waste volumes can be affected by a number of variables, including customer route changes and cheaper disposal alternatives outside the County. The Agency's biggest customer brought in consistent volume throughout 2022, which created an increase of 28%."

As stated in the Agency's Annual 2023 Comprehensive Financial Report:

"Overall, waste volume decreased by 6.2% from the prior year. Predicting waste volume can be very difficult from year to year, and 2022 appears to be an outlier in terms of volume received at the Agency. Notably, the extra volume in 2022 came from non-flow control related MSW [Non-flow control MSW relates to out of county waste received from the Dutchess County Resource Recovery Agency under emergency circumstances]. Volume like this can't be expected every year, and the Agency has taken this into consideration for future years planning and budgeting. Municipal-related volume from the Town transfer station and City of Kingston were consistent with the prior year.

Total recycling/diversion volumes increased by 14.5% from the prior year. The main commodities (news, old corrugated cardboard (OCC), and commingle) decreased in direct correlation with municipal MSW, as most of these commodity volumes are received from municipalities. The biggest change in volume was an increase in food waste and wood chips that were received. The Agency's biggest food waste customer brought in 54.6% more volume than the prior year. The Agency's grinder sustained a mechanical failure in 2022, leading to increased grinding services in 2023, and thus an increase in wood chips."

The Agency staff wishes to emphasize the complexity of forecasting future waste generation scenarios, and the value in evaluating multiple years of actual waste tonnage data to

determine long term patterns of disposal. **The Agency's Executive Director/Controller evaluates waste tonnage projections on an annual basis as part of the budget process, evaluating data from the previous 42 months to create a baseline average for the following year's outlook.** The Agency will present a comparison of budgeted and actual tons in its biennial updates.

Figure 8. Comparison of Budgeted Tons and Actual Tons Received by UCRRA (2020-2021) sourced from UCRRA Annual Treasurer's Reports.

	2022 Budgeted Tons	2022 Actual Tons	2023 Budgeted Tons	2023 Actual Tons
(MSW)	99,412	119,069	106,865	106,774
(C&D)	38,088	33,536	38,135	35,908
(SLUDGE)	3,200	3,002	3,150	3,259

As required by NYSDEC, revised waste stream projections are provided below. These projections were generated using DEC's MSW calculator, with inputs drawn from UCRRA's 2023 Annual Reports to DEC, including:

- Permitted Transfer Facility Annual Report for the 999 Flatbush Road Facility, in the Town of Ulster;
- Permitted Transfer Facility Annual Report for the 1 Clearwater Rd Facility, in the Town of New Paltz;
- Recyclables Handling & Recovery Facility Annual Report for the Material Recovery Facility (MRF) at 999 Flatbush Road, in the Town of Ulster
- Registered or Permitted Facility Annual Report for the Organics Recovery Facility (ORF) at 999 Flatbush Road, in the Town of Ulster
- Household Hazardous Waste Collection Event Annual Report for multiple HHW events in the Town of Ulster and the Town of New Paltz

Mirroring the State's approach, MSW included in these projections includes materials generated by residential, commercial and institutional sectors. The projections exclude C&D, biosolids, and industrial waste. Based on DEC's guidance, the projections provided below are only for the years remaining in the current planning period (i.e. 2024 – 2029).

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	Ulster County Resource Recovery Agency (UCRRA)
Planning Period	2024-2033

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 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.

Ulster County Resource Recovery Agency (UCRRA)

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.

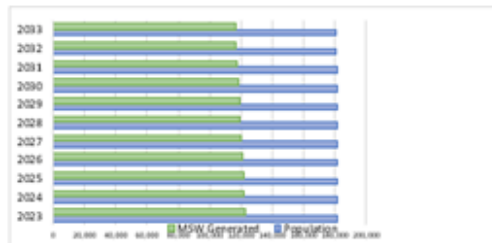
<input checked="" type="radio"/> I know the amount of MSW generated (Tons/year):	Enter tons disposed here:	106,831
<input type="radio"/> The planning unit Average MSW Generation Rate (lb/person/day) is:		
<input type="radio"/> The amount of MSW Generated and the planning unit Average MSW Generation Rate are unknown.	Enter tons diverted here:	16,231

In 2023, total MSW received by UCRRA was 106,831 tons. An additional 16,231 tons was diverted prior to disposal.

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

Ulster County Resource Recovery Agency (UCRRA) 2024-2033

Current Data	
2020 Population Census	181,851
2023 Population	181,659
2023 MSW Generated (Tons/yr)	123,062
2023 MSW generation rate (Lb/person/day)	3.22
2023 MSW Disposed (Tons/yr)	106,831
2023 MSW Diverted (Tons/yr)	16,231



Annual rate of population growth (%)	-0.04%
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Population Projection												
2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
181,659	181,595	181,531	181,467	181,404	181,340	181,276	181,212	181,149	181,085	181,021	180,957	180,894

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 rate (Lb/person/day)	3.71
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MSW Generation Projection												
2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
3.71	3.69	3.67	3.65	3.63	3.61	3.60	3.58	3.56	3.54	3.52	3.51	3.49
122,850	122,192	121,539	120,888	120,242	119,598	118,958	118,322	117,689	117,059	116,433	115,810	115,191
												Tons/yr

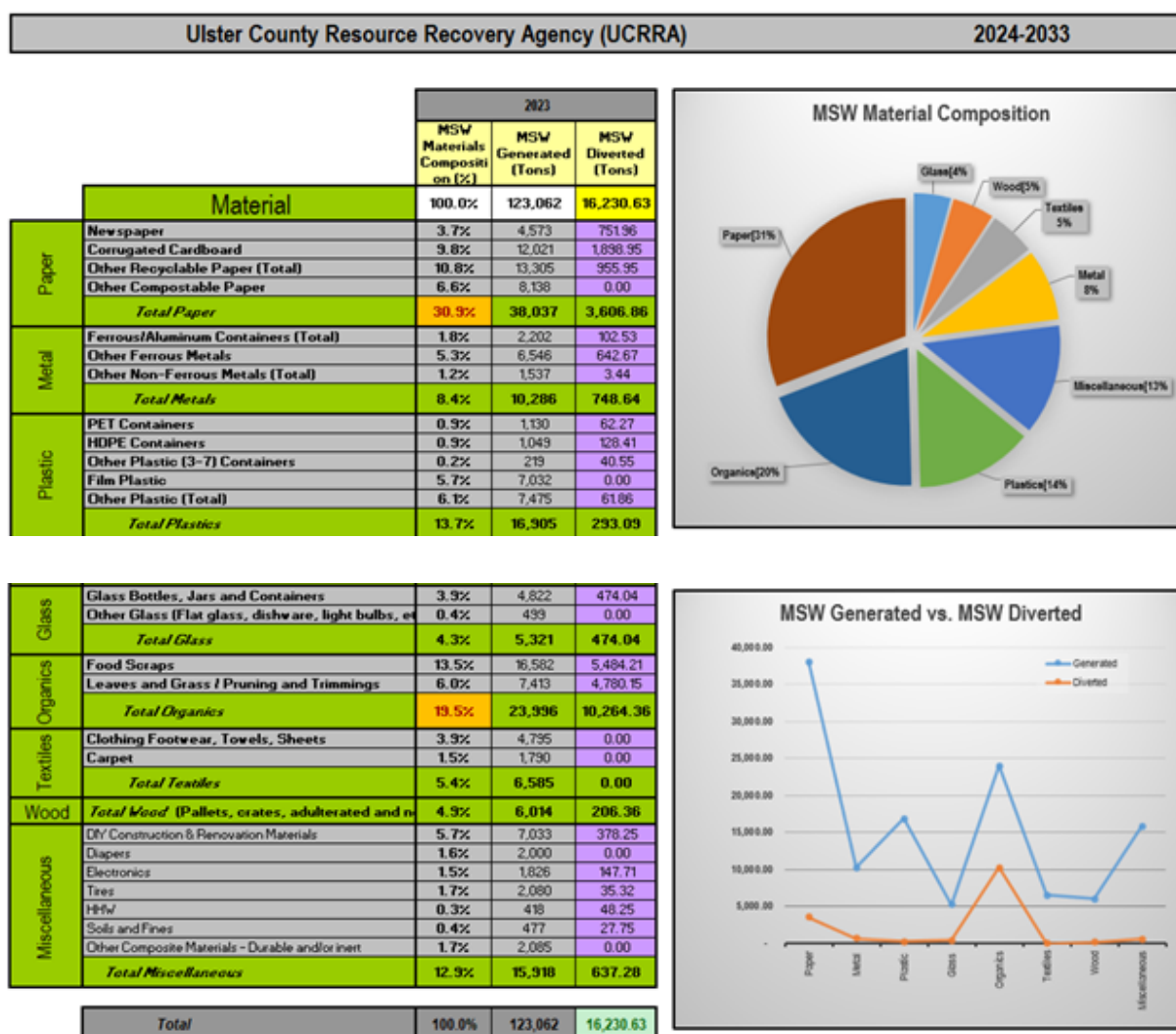
Population is projected to decrease slightly over the remainder of the planning period, at a rate of -0.04% per year, from 181,659 in 2023 to 181,276 in 2029. The overall waste generation rate is projected to decline by 0.5% each year of the planning period as a result of ongoing education and outreach, resulting in total MSW generation of 118,958 in 2029.

Ulster County Resource Recovery Agency (UCRRA)	2024-2033
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Density Population Distribution		Rural			Suburban			Urban			MSW Materials Composition (%)	
		53.24%			46.76%			0.00%				
		Residential	Comm/Inst	Combined	Residential	Comm/Inst	Combined	Residential	Comm/Inst	Combined		
		58.00%	42.00%	100.00%	55.00%	45.00%	100.00%	58.00%	42.00%	100.00%	100.00%	
Material	Newspaper	5.20%	1.90%	3.81%	5.00%	1.90%	3.61%	6.60%	2.00%	4.67%	3.72%	
	Corrugated Cardboard	6.60%	13.90%	9.67%	6.60%	13.90%	9.83%	6.90%	13.70%	9.76%	9.77%	
	Other Recyclable Paper	Paperboard	3.20%	1.10%	2.32%	3.30%	1.00%	2.27%	3.60%	0.90%	2.47%	2.29%
		Office Paper	0.80%	3.80%	2.06%	0.90%	4.20%	2.33%	1.10%	5.80%	3.07%	2.21%
		Junk Mail	3.00%	0.70%	2.03%	3.20%	0.70%	2.08%	3.50%	0.70%	2.32%	2.05%
		Other Commercial Printing	1.70%	2.30%	1.95%	1.70%	2.40%	2.02%	2.30%	2.60%	2.43%	1.98%
		Magazines	1.10%	0.90%	1.02%	1.00%	0.80%	0.91%	1.10%	1.00%	1.06%	0.97%
		Books	0.50%	0.30%	0.42%	0.50%	0.30%	0.41%	0.60%	0.40%	0.52%	0.41%
		Paper Bags	0.50%	0.20%	0.37%	0.50%	0.20%	0.37%	0.60%	0.20%	0.43%	0.37%
		Phone Books	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.20%	0.26%	0.30%
	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%	10.71%	11.60%	10.10%	10.93%	13.40%	12.00%	12.81%	10.81%	
	Other Compostable Paper	6.80%	6.80%	6.80%	6.40%	6.40%	6.40%	6.80%	6.80%	6.80%	6.61%	
	Total Paper	29.90%	32.50%	30.99%	29.60%	32.30%	30.82%	33.70%	34.50%	34.04%	30.91%	
	Ferrous/Aluminum Containers	Ferrous Containers	1.90%	1.00%	1.52%	1.20%	0.70%	0.98%	1.40%	0.70%	1.11%	1.27%
		Aluminum Containers	0.70%	0.40%	0.57%	0.60%	0.30%	0.47%	0.50%	0.40%	0.46%	0.52%
	Ferrous/Aluminum Containers (Total)	2.60%	1.40%	2.10%	1.80%	1.00%	1.44%	1.90%	1.10%	1.56%	1.79%	
Other Ferrous Metals	5.20%	5.40%	5.28%	5.00%	5.80%	5.36%	3.30%	3.70%	3.47%	5.32%		
Material	Other Non-Ferrous	Other aluminum	0.20%	0.30%	0.24%	0.20%	0.30%	0.25%	0.20%	0.30%	0.24%	0.24%
		Automotive batteries	0.80%	0.50%	0.67%	0.70%	0.40%	0.57%	0.20%	0.20%	0.20%	0.62%
		Other non-aluminum	0.50%	0.30%	0.42%	0.30%	0.40%	0.35%	0.40%	0.20%	0.32%	0.38%
	Other Non-Ferrous Metals (Total)	1.50%	1.10%	1.33%	1.20%	1.10%	1.16%	0.80%	0.70%	0.76%	1.25%	
	Total Metals	9.30%	7.90%	8.71%	8.00%	7.90%	7.96%	6.00%	5.50%	5.79%	8.36%	
	PET Containers	1.10%	0.80%	0.97%	0.90%	0.80%	0.86%	1.20%	1.00%	1.12%	0.92%	
	HDPE Containers	1.10%	0.60%	0.89%	0.90%	0.70%	0.81%	1.00%	0.70%	0.87%	0.85%	
	Other Plastic (3-7) Containers	0.20%	0.10%	0.16%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.18%	
	Film Plastic	5.70%	5.90%	5.78%	5.50%	5.80%	5.64%	5.80%	5.80%	5.80%	5.71%	
	Other Plastic	Durables	3.10%	3.20%	3.14%	3.00%	3.20%	3.09%	3.20%	3.30%	3.24%	3.12%
		Non-Durables	1.60%	1.80%	1.68%	1.60%	1.80%	1.69%	1.80%	1.90%	1.84%	1.69%
		Packaging	1.40%	1.10%	1.27%	1.40%	1.10%	1.27%	1.50%	1.10%	1.33%	1.27%
	Other Plastic (Total)	6.10%	6.10%	6.10%	6.00%	6.10%	6.05%	6.50%	6.30%	6.42%	6.07%	
	Total Plastics	14.20%	13.50%	13.91%	13.50%	13.60%	13.55%	14.70%	14.00%	14.41%	13.74%	
	Glass Bottles, Jars and Containers	4.10%	3.80%	3.97%	3.90%	3.80%	3.86%	4.30%	3.80%	4.09%	3.92%	
	Other Glass (Flat glass, dishware, light bulbs)	0.50%	0.40%	0.46%	0.30%	0.40%	0.35%	0.40%	0.40%	0.40%	0.41%	
	Total Glass	4.60%	4.20%	4.43%	4.20%	4.20%	4.20%	4.70%	4.20%	4.49%	4.32%	
Food Scraps	12.70%	13.30%	12.95%	12.90%	15.50%	14.07%	17.20%	25.20%	20.56%	13.47%		
Leaves and Grass / Pruning and Trimmings	3.10%	1.10%	2.26%	11.30%	9.10%	10.31%	4.20%	1.50%	3.07%	6.82%		
Total Organics	15.80%	14.40%	15.21%	24.20%	24.60%	24.38%	21.40%	26.70%	23.63%	19.50%		
Clothing Footwear, Towels, Sheets	4.60%	3.00%	3.93%	4.40%	3.20%	3.86%	4.80%	2.50%	3.83%	3.90%		
Carpet	1.40%	1.30%	1.36%	1.70%	1.40%	1.57%	1.70%	0.90%	1.36%	1.45%		
Total Textiles	6.00%	4.30%	5.29%	6.10%	4.60%	5.43%	6.50%	3.40%	5.20%	5.35%		
Total Wood (Pallets, crates, adulterated and non-adulterated)	4.10%	9.00%	6.16%	2.90%	4.10%	3.44%	2.00%	3.50%	2.63%	4.89%		
Material	DIY - Construction & Renovation Materials	8.00%	7.60%	7.83%	3.80%	2.70%	3.31%	4.40%	3.80%	4.15%	5.72%	
	Diapers	1.90%	1.10%	1.56%	2.10%	1.20%	1.70%	2.30%	1.10%	1.80%	1.63%	
	Electronics	1.30%	1.40%	1.34%	1.60%	1.70%	1.65%	1.30%	1.30%	1.30%	1.48%	
	Tires	1.80%	1.80%	1.80%	1.70%	1.40%	1.57%	0.50%	0.40%	0.46%	1.60%	
	HHW	0.60%	0.00%	0.35%	0.60%	0.00%	0.33%	0.50%	0.00%	0.29%	0.34%	
	Soils and Fines	0.60%	0.60%	0.60%	0.10%	0.20%	0.15%	0.10%	0.10%	0.10%	0.39%	
	Other Composite Materials - Durable and/or Inert	1.90%	1.70%	1.82%	1.60%	1.50%	1.56%	1.90%	1.50%	1.73%	1.60%	
	Total Miscellaneous	16.10%	14.20%	15.30%	11.50%	8.70%	10.24%	11.00%	8.20%	9.82%	12.94%	
Total		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%		

The DEC projection tool does not allow modifications to the Detailed Composition Analysis table based on UCRRA's waste characterization data, so we have left the default values. Key categories of the waste stream identified by DEC's analysis include Paper (30.91%) and Organics (19.5%). UCRRA's own waste characterization data support these conclusions, with Paper and Organics comprising the largest categories of materials in the waste stream.

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



In 2023, UCRRA diverted 16,231 tons of materials, the largest share of which comprised Food Scraps (5,484.21 tons), Leaves and Grass/Pruning and Trimmings (4,780.15 tons) and Corrugated Cardboard (1,898.95 tons).

Step 6. Municipal Solid Waste (MSW) Diversion Projections

Ulster County Resource Recovery Agency (UCRRA)														2024-2033																			
														Year		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035						
														Projected MSW Generation (Tons/yr)		122,850	122,192	121,539	120,888	120,242	119,598	118,958	118,322	117,689	117,059	00,000	00,000						
														MSW Diverted (Tons/yr)		17,113	20,855	24,690	28,700	32,527	35,759	0	0	0	0	0	0						
														2023		MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035		
														MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted	% MSW Diverted
Material														100.0%	123,062	16,231	13.2%	13.9%	17.1%	20.3%	23.7%	27.1%	29.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Paper	Newspaper	3.7%	4,573	752	16.4%	18.0%	20.0%	23.0%	26.0%	28.0%	30.0%																						
	Corrugated Cardboard	9.8%	12,021	1,899	15.8%	16.0%	18.0%	21.0%	25.0%	28.0%	30.0%																						
	Other Recyclable Paper (Total)	10.8%	13,305	956	7.2%	8.0%	12.0%	18.0%	24.0%	28.0%	30.0%																						
	Other Compostable Paper	6.6%	8,138	0	0.0%	2.0%	6.0%	12.0%	18.0%	24.0%	30.0%																						
	Total Paper	30.9%	38,037	3,607	9.5%	10.4%	13.6%	18.3%	23.3%	27.1%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
Metal	Ferrous/Aluminum Containers (Total)	1.8%	2,202	103	4.7%	6.0%	10.0%	15.0%	20.0%	25.0%	30.0%																						
	Other Ferrous Metals	5.3%	6,546	643	9.8%	10.0%	14.0%	18.0%	22.0%	26.0%	30.0%																						
	Other Non-Ferrous Metals (Total)	1.2%	1,537	3	0.2%	2.0%	6.0%	12.0%	18.0%	24.0%	30.0%																						
	Total Metals	8.4%	10,286	749	7.3%	7.9%	11.9%	16.5%	21.0%	25.5%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
Plastic	PET Containers	0.9%	1,130	62	5.5%	6.0%	8.0%	10.0%	12.0%	14.0%	16.0%																						
	HDPE Containers	0.9%	1,049	128	12.2%	13.0%	15.0%	17.0%	19.0%	21.0%	23.0%																						
	Other Plastic (3-7) Containers	0.2%	219	41	18.5%	19.0%	21.0%	23.0%	25.0%	27.0%	29.0%																						
	Film Plastic	5.7%	7,032	0	0.0%	0.0%	2.0%	4.0%	6.0%	8.0%	10.0%																						
	Other Plastic (Total)	6.1%	7,475	62	0.8%	1.0%	3.0%	5.0%	7.0%	9.0%	11.0%																						
	Total Plastics	13.7%	16,905	293	1.7%	1.9%	3.9%	5.9%	7.9%	9.9%	11.9%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
Glass	Glass Bottles, Jars and Containers	3.9%	4,822	474	9.8%	10.0%	12.0%	14.0%	16.0%	18.0%	20.0%																						
	Other Glass (Flat glass, dishware, light bulbs, etc)	0.4%	499	0	0.0%	0.0%	2.0%	4.0%	6.0%	8.0%	10.0%																						
	Total Glass	4.3%	5,321	474	8.9%	9.1%	11.1%	13.1%	15.1%	17.1%	19.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
Organics	Food Scraps	13.5%	16,582	5,484	33.1%	34.0%	40.0%	42.0%	45.0%	48.0%	50.0%																						
	Leaves and Grass / Pruning and Trimmings	6.0%	7,413	4,780	64.5%	65.0%	65.0%	65.0%	65.0%	65.0%	65.0%																						
	Total Organics	19.5%	23,996	10,264	42.0%	43.0%	47.7%	49.1%	51.2%	53.3%	54.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
Textiles	Clothing Footwear, Towels, Sheets	3.3%	4,795	0	0.0%	1.0%	3.0%	7.0%	10.0%	15.0%	20.0%																						
	Carpet	1.5%	1,790	0	0.0%	1.0%	3.0%	7.0%	10.0%	15.0%	20.0%																						
	Total Textiles	5.4%	6,585	0	0.0%	1.0%	3.0%	7.0%	10.0%	15.0%	20.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
Wood	Total Wood (Pallets, crates, adulterated and no	4.3%	6,014	206	3.4%	5.0%	10.0%	15.0%	20.0%	25.0%	30.0%																						
Miscellaneous	Dry Construction & Renovation Materials	5.7%	7,033	378	5.4%	6.0%	9.0%	12.0%	15.0%	20.0%	25.0%																						
	Diapers	1.6%	2,000	0	0.0%	0.0%	2.0%	4.0%	6.0%	8.0%	10.0%																						
	Electronics	1.5%	1,826	148	8.1%	10.0%	12.0%	15.0%	18.0%	22.0%	25.0%																						
	Tires	1.7%	2,080	35	1.7%	2.0%	4.0%	6.0%	8.0%	10.0%	12.0%																						
	HHW	0.3%	418	48	11.5%	12.0%	14.0%	16.0%	18.0%	20.0%	22.0%																						
	Solids and Fines	0.4%	477	28	5.8%	6.0%	8.0%	10.0%	12.0%	14.0%	16.0%																						
	Other Composite Materials - Durable and/or inert	1.7%	2,085	0	0.0%	0.0%	2.0%	4.0%	6.0%	8.0%	10.0%																						
Total Miscellaneous	12.9%	15,918	637	4.0%	4.6%	7.0%	9.6%	12.1%	15.7%	19.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%													

- Expanded education, outreach and enforcement to increase diversion of paper, metals, electronics and HHW.

Several material categories where current diversion rates are at or near 0% include only modest goals for future diversion, since mechanisms to increase diversion must first be developed (e.g. end markets for recycling, new management pathways to separate and divert, etc.).

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.

Ulster County Resource Recovery Agency (UCRRA)

2024-2033

Material	2023		2024		2025		2026		2027		2028		2029	
	MSW Generated (Tons)	% Diverted	MSW Generated (Tons)	% Diverted	MSW Generated (Tons)	% Diverted	MSW Generated (Tons)	% Diverted	MSW Generated (Tons)	% Diverted	MSW Generated (Tons)	% Diverted	MSW Generated (Tons)	% Diverted
Paper														
Newspapers	3,725	4.57%	752	16.45%	4,565	8.22%	4,561	9.21%	4,577	10.99%	4,433	1.90%	4,483	1.25%
Compostable Cardboard	8,725	12.02%	1,119	16.85%	12,000	15.30%	11,906	14.88%	11,912	14.49%	11,889	14.36%	11,748	13.15%
Other Recyclable Paper (Total)	10,955	15.33%	770	7.25%	13,262	10.63%	13,211	11.03%	13,140	12.35%	13,110	11.21%	13,000	11.44%
Other Compostable Paper	6,816	8.58%	0	0.00%	8,524	16.23%	8,081	4.01%	8,027	9.64%	7,254	14.19%	7,952	19.01%
Total Paper	20,516	10.63%	3,641	3.51%	37,372	10.41%	37,760	10.12%	37,557	10.92%	37,366	10.90%	37,195	10.90%
Metal														
Ferrous/Aluminum Containers (Total)	1,795	2.22%	303	4.75%	2,788	13.2%	2,786	12.9%	2,775	12.6%	2,763	12.2%	2,751	11.9%
Other Ferrous Metals	5,325	6.94%	943	3.85%	8,535	16.4%	8,520	16.0%	8,485	15.84%	8,431	14.9%	8,396	14.6%
Other Non-Ferrous Metals (Total)	1,250	1.59%	3	0.25%	1,519	3.1%	1,526	3.2%	1,530	3.2%	1,530	3.2%	1,530	3.2%
Total Metals	8,370	10.75%	1,249	3.85%	12,842	12.7%	12,832	12.7%	12,785	12.6%	12,719	12.5%	12,677	12.5%
Plastic														
PE Containers	6,925	1.10%	62	0.50%	1,526	8.2%	1,522	8.0%	1,516	8.0%	1,510	8.0%	1,504	7.9%
HDR Containers	6,850	1.04%	528	12.25%	1,047	19.1%	1,042	18.6%	1,036	18.1%	1,031	17.6%	1,025	17.1%
Other Plastic (PE, PP Containers)	8,303	2.79%	47	0.10%	1,100	4.3%	1,100	4.3%	1,100	4.3%	1,100	4.3%	1,100	4.3%
Film/Plastic	5,715	12.12%	0	0.00%	7,829	0.0%	6,262	14.0%	6,365	2.7%	6,305	4.8%	6,211	1.7%
Other Plastics (Total)	8,115	14.79%	497	3.85%	1,462	7.1%	1,412	6.1%	1,369	5.8%	1,343	5.0%	1,304	4.0%
Total Plastics	20,148	10.33%	736	1.7%	10,475	10.1%	10,756	10.1%	10,636	10.1%	10,617	10.1%	10,619	10.1%
Glass														
Glass Bottles, jars and Containers	3,325	4.52%	474	3.85%	4,874	4.8%	4,759	5.7%	4,762	6.6%	4,727	7.6%	4,718	8.4%
Other Glass (Flat glass, dishware, light bulbs)	4,416	4.99%	0	0.00%	4,491	0.0%	4,495	1.2%	4,491	2.5%	4,491	2.5%	4,491	2.5%
Total Glass	4,326	5.31%	474	3.85%	5,365	4.8%	5,254	5.9%	5,253	6.6%	5,218	7.6%	5,210	8.4%
Organic														
Food Storage	13,475	16.52%	5,484	23.15%	16,554	5.52%	16,485	5.56%	16,377	6.81%	16,259	4.5%	16,202	7.17%
Leaves and Grass / Pruning and Trimmings	8,125	7.43%	4,780	64.51%	7,437	4.88%	6,855	3.7%	7,322	4.71%	6,855	4.7%	7,244	4.7%
Total Organics	91,500	23.96%	10,264	62.6%	23,991	10.4%	23,340	10.3%	23,699	10.3%	23,114	10.3%	23,446	10.3%
Textiles														
Clothing/Footwear, Towels, Sheets	3,985	4.73%	0	0.00%	4,786	4.8%	4,781	6.3%	4,735	13.1%	4,730	10.8%	4,685	10.3%
Carpets	1,450	1.78%	0	0.00%	1,717	1.8%	1,778	5.3%	1,758	12.4%	1,759	1.8%	1,743	2.6%
Total Textiles	5,435	6.51%	0	0.00%	6,503	6.6%	6,559	11.6%	6,493	17.5%	6,484	12.6%	6,428	12.9%
Wood														
Total Wood	4,895	6.04%	200	1.4%	5,004	5.0%	5,072	5.1%	5,040	5.1%	5,008	5.1%	5,075	5.1%
Miscellaneous														
Total Misc	4,895	6.04%	200	1.4%	5,004	5.0%	5,072	5.1%	5,040	5.1%	5,008	5.1%	5,075	5.1%
Construction & Demolition Materials	5,725	7.23%	310	1.4%	7,252	4.2%	6,564	4.2%	6,546	9.4%	6,509	10.6%	6,571	10.6%
Debris	1,636	2.00%	0	0.00%	1,597	0.0%	1,596	0.0%	1,595	1.0%	1,595	1.0%	1,594	1.0%
Demolition	1,480	1.82%	140	8.1%	1,823	8.2%	1,810	1.0%	1,803	2.0%	1,794	1.0%	1,784	1.0%
Tree	1,609	2.00%	35	1.1%	2,036	4.2%	2,065	3.1%	2,054	9.2%	2,043	8.0%	2,032	10.0%
HHW	0.345	4.40%	40	11.5%	407	12.0%	416	14.1%	411	14.1%	411	14.1%	411	14.1%
Soils and Fines	0.396	4.77%	20	5.8%	416	12.0%	423	14.1%	421	14.1%	421	14.1%	421	14.1%
Other Construction Materials - Rubble and/or man	1,689	2.06%	0	0.00%	2,065	0.0%	2,070	4.1%	2,059	12.4%	2,048	12.1%	2,037	12.1%
Total Miscellaneous	12,245	15.31%	627	4.8%	15,011	7.4%	15,006	7.4%	15,121	10.6%	15,031	10.6%	15,010	10.6%

	2023	2024	2025	2026	2027	2028	2029
Population	81,053	81,155	81,195	81,131	81,457	81,454	81,340
MSW Generated (Total)	123,961.82	127,893	127,182	127,535	126,866	125,742	125,558
Per Capita MSW Generated (Pounds/year)	1,505	1,563	1,566	1,560	1,546	1,531	1,531
MSW Diverted (Total)	17,331.63	17,385	20,885	24,690	26,100	27,876	28,165
Per Capita MSW Diverted (Pounds/year)	213	214	257	304	320	342	346
MSW Disposed (Total)	106,630.19	108,508	106,297	102,845	100,766	97,866	97,393
Per Capita MSW Disposed (Pounds/year)	1,294	1,329	1,309	1,267	1,246	1,200	1,197
Per Capita MSW Disposed (Pounds/day)	3.22	3.69	3.60	3.52	3.42	3.32	3.32

1.3 Significant Changes to Waste Management Practices

1.3.1 Electronics Recycling

The previous biennial update included a discussion about the Agency adapting to the COVID-19 health crisis while balancing the safety and health of employees, including adjustments to the Agency's electronics drop off program. In June 2020, the program resumed after a temporary shutdown and reopened as an attended drop off program on Saturdays only. These changes encouraged social distancing while the Main Office was closed to the public and improved the staffing plan to assist unloading vehicles, fully realizing efficiencies and customer convenience. Another benefit of implementing the attended service was increased controls for monitoring contamination or unauthorized wastes coming in with electronics. Lastly, the Agency previously received customer feedback that the program should be available on weekends, validating that the change in operation was beneficial for customer convenience.

During his tenure at the Agency, former Executive Director Greg Ollivier allowed electronic devices to be dropped off during the week, in addition to the attended service on Saturdays. Ollivier intended to accommodate the few residents who occasionally could not participate on Saturdays, but weekday drop offs quickly became more frequent and more complex than expected. Ollivier allowed electronic devices to be placed in a small area of the sidewalk outside of the office entrance and contended that there would be no need to supervise these self-guided public drop offs. The conflicting instructions about the e-waste program lead to customer confusion about how to participate in the service and other issues arised. Unsupervised, residents often left unauthorized waste in the area, including refrigerant containing appliances, mercury lamps, fans, dolls, smoke detectors, batteries, and other unaccepted items. The sidewalk, cluttered with large bulky devices and televisions, was not only unaesthetic in keeping a neat, clean facility appearance but it also posed safety concerns for residents bending and lifting heavy items onto the ground, or sometimes blocking the entrance of the office. Some residents voiced concerns about the security of their personal data in computers being left unattended, or opportunities for others to scavenge the items when unsupervised. At the end of 2023, an analysis of metrics collected weekly throughout the year showed that the weekday drop-off initiative did not increase overall participation in the program.

Presently, weekday drop off has ceased and the electronics recycling program remains available for free, as an attended program only, available every Saturday from April through

November, whereby a trained employee screens incoming materials and assists residents with unloading any heavy items.

Other updates of note regarding e-waste: the New York State Department of Environmental Conservation filed a Notice of Adoption with the New York State Department of State on February 8, 2022, to repeal and replace 6 NYCRR Part 368. The rule develops new regulations for the existing [Electronic Equipment Recycling and Reuse Act](#), among other actions. Existing registered entities had until January 1, 2023 to comply with any new requirements.

1.3.2 Bagged Compost Sales



The Agency launched its bagged compost product line after several years of planning and overcoming operational logistics. Previously, the Agency had only sold compost in bulk and wanted to expand the service for the benefit of residents who wanted smaller quantities of compost or who were otherwise unable to purchase it in bulk.

The Agency needed to consider a way to launch the product without creating any unessential traffic in the primary operations. Staff worked to structure a program whereby residents could access bagged compost on Saturdays in conjunction with the electronics recycling program, which has a traffic pattern near the Main Office away from the operations.

Staff worked with its website designer to implement an E-commerce store. Once implemented, it allowed the Agency to facilitate and track bagged compost sales in a manner completely independent from the scalehouse transactions, further enabling a safer traffic pattern and a way of managing risks. Conception, design, and troubleshooting occurred during 2022 and the store went live in March 2023.



The previous biennial update included a discussion about the new Compost Bagging Facility & Sustainable Living Center that was purchased and installed. The prefabricated steel building is 36x36

feet (14-gauge) and features three 12x12 overhead doors, 2 walk-in standard 36"x80" doors, and 2 standard 30"x36" windows. The facility will primarily serve as a storage and processing facility for the Agency's compost bagging operation. In 2022, staff continued work on the interior of the building to ensure its functionality for the service. Staff also participated in equipment training to become familiar with the new bagging machine.



During the season (April through November 2023) the Agency sold one thousand one hundred and sixty two (1,162) bags of compost. There were 191 orders/transactions, including returning customers. As expected, the demand for bagged compost peaked in April. The most bags in a single week were ordered April 15th 2023 (157 bags). The last pick up day with over 75 bags ordered in a week was May 20th 2023. There were only 3 weeks with no new orders at all (late July and early August). The staff is evaluating these metrics and ways of improving or expanding the service in the future. Distribution to garden centers and other retailers is another opportunity, and a potential partnership utilizing the many local town transfer stations could be another opportunity to distribute compost more widely.

1.3.3 Organics Recovery Facility Expansion

The previous biennial update included a discussion about the Agency's investments in critical facility improvements to enable the successful continuation and expansion of the composting service. These upgrades in 2020-2021 included:

- the purchase of a 2020 VOLVO L-11-OH Wheel Loader

- the purchase of a 2018 TELESTACK MH 5680 Revolution Radial Stacker
- the purchase of a 2020 TEREX PHOENIX 2100 Trommel Screen
- the installation of new utility poles
- the installation of an expanded 350 x 430 foot concrete pad over the entire site
- blacktop pavement applied to a 125 x 55 foot area
- expansion of compost mixing/staging areas with new concrete forms/molds or “jersey blocks”
- the installation of a bagging facility and Sustainable Living Center; a 36x36 ft. prefabricated steel building

These improvements were instrumental for the compost program expansion. The Agency was successful in achieving a permit modification to accept more food scraps. Permit modification #2 became effective August 12, 2022 and allows the authorization of the facility to accept Yard Waste at a maximum rate of 10,000 cubic yards per year. The facility is authorized to accept source separated organic waste at a maximum rate of 5,000 tons per year (increased from 2,500 tons per year). The facility is also authorized to accept Animal Carcasses at a maximum rate of 20 tons per year.



The permit modification was necessary to meet the growing demands for the composting service. The City of Kingston, which is the largest municipality in the Agency's service area, launched its phase 1 organics pilot project on July 10th 2023. UCRRA Director of Sustainability worked collaboratively with the City of Kingston Sustainability Coordinator on the educational materials and the roll out of the program. The food scrap drop off program is a free, voluntary service open to City of Kingston residents. The City established 11 community food scrap drop off sites, one in each of the City's wards. These stations are fully enclosed and locked areas for the sanitary storage of food scraps, which the City collects weekly and delivers to UCRRA for processing. The implementation of the City's program involved direct mailings

city-wide, informational webinars and advertisements, and a [new website](#) of resources. By the end of the first month, there were 250 families representing 592 individuals composting. **Six months later, by the end of 2023, there were 362 households, representing 802 individuals participating, and the City had delivered 14.48 tons of organics to the Agency.**

Beyond the City of Kingston residential composting program, the Agency anticipates increases in tonnage from the implementation of state and local composting laws. Presently, the UCRRA is processing the maximum amount of organic materials allowable through its permit authorization. The Agency recognizes the potential positive impacts in waste diversion if these laws are successfully implemented, though to date they have not had significant increases in Agency organics volume directly resulting from the regulated community. The Agency maintains a goal of expanding its permitted capacity to further effectuate the successful continuation of the composting service. **During 2023, the Agency submitted a permit modification to increase its allowed acceptance of food waste from 5,000 tons to 7,500 tons.**

1.3.4 Biosolids Composting

As discussed in the last biennial update, biosolids delivered to the Agency have historically been exported for final disposal at the Chemung County Landfill in Elmira, NY. Pursuant to the LSWMP, the Agency evaluated biosolid disposal alternatives. In December 2020, the Agency entered into an agreement with Denali Water Solutions LLC for the transport and disposal management of all Municipal Sewage Sludge (i.e., biosolids) delivered to the Agency. The Agency continues to transport biosolids to the Rockland County Compost Facility in Hillburn, New York, a permitted facility that is authorized and regulated by New York State Department of Environmental Conservation to manage biosolids through co-composting. The Rockland County Composting Facility operates in accordance with all applicable laws, regulations, and good engineering standards. The Agency maintains ongoing internal controls for inspection and monitoring of the sewage sludge, including testing on an annual basis which is required by the Compost Facility's operating permit. The Agreement with WeCare/Denali is a critical partnership to the Agency's vision to maximize resource recovery, as the new biosolid diversion program accounts for about 3% of the total waste stream managed by UCRRA. The Agreement took effect January 1st 2021 and will terminate on December 31st 2025, unless extended.

1.3.5 Paint Care NY

The [New York State Paint Stewardship Law](#) was enacted December 16, 2019, and the PaintCare NY launched on May 1, 2022. PaintCare Inc., a non-profit 501(c)(3) organization (of

the American Coatings Association) who represents paint manufacturers (paint producers) who plan and operate paint stewardship programs in U.S. states that pass paint stewardship laws. PaintCare has successfully established many paint drop-off sites throughout New York State whereby residents, businesses, and government agencies can drop off unwanted or unused paints (and other architectural coatings) for free recycling.

As of this biennial update, several sites in Ulster County participate in Paint Care:

Sherwin-Williams

568 Albany Ave Kingston, NY 12401

Herzogs True Value Home Center

151 Plaza Rd Kingston, NY 12401

Saugerties Lumber True Value

223 Ulster Ave Saugerties, NY 12477

Habitat for Humanity Restore

406 NY-28, Kingston, NY 12401

Slutsky Lumber

1 Pine St, Ellenville, NY, 12420

Ace Hardware of Ellenville

140 S Main St, Ellenville, NY, 12428

Additionally, several locations in neighboring counties offer convenient drop off options for residents near the boundaries of the County. Sites vary on the accepted limit of up to 5-10 gallons per visit. These sites accept latex and oil-based house paint, stains and varnish in containers up to 5 gallons in size. These sites do not accept aerosols (spray paint or other spray products), containers without original labels, or containers that are leaking or empty.

Beginning in 2022, the Agency's Vendor for its Household Hazardous Waste events maintained a contract with Paint Care providing that eligible paint related materials collected at the Agency's HHW events be covered by Paint Care. Not only did this eliminate the Agency's direct costs for paint disposal, but it allowed for the acceptance of latex paint which was previously not accepted due to its high cost and classification as non hazardous. Minor adjustments to the layout of the HHW events were made to accommodate the additional space for paint collection and sorting, and the events ran smoothly with no incidents.

The Agency website was updated to reflect the new changes to local paint recycling. In June 2022, the UCRRA Director of Sustainability sent a memo to all Ulster County Town Supervisors regarding PaintCareNY to raise awareness about the program. Staff continues to participate in webinars and conference presentations to continue their education about PaintCare.

Figure 9. Paint Disposal at UCRRA HHW Service (2021-2023)

2021	2022	2023
20,141 LBS.	52,650 LBS.	43,450

1.4 Outreach Education and Community Engagement Activities

The UCRRA employs a full time Director of Sustainability and a Recycling Educator who together make up the Agency's Recycling Outreach Team (ROT). From January 1st 2022 - March 1st 2022, UCRRA Office Manager, Melinda France, was acting as the Agency's Recycling Educator while the Agency recruited to fill the position. Tanesia White was hired March 1st 2022 to join the education/sustainability department, led by Angelina Brandt. The ROT designs, implements, and evaluates the Ulster County Recycles outreach education and community engagement program and acts as liaisons for the Agency's recycling and composting services. A description of the Agency's Outreach and Education Programs were discussed in Section 4.10 of the original LSWMP (p.52-54) and an updated description of the program can be found on the Agency's website [linked here](#).

The Agency emphasizes the role of public education and outreach in the overall execution of its mission and its long term solid waste management plan. For the purpose of this biannual update, the following section will provide a more comprehensive overview of activities, goals, and strategies undertaken during this period. ***Refer to the Appendix A - Recycling Program Media Sample.***

1.4.1 Special Projects & Grants

Municipal Waste Reduction & Recycling Coordination

The Ulster County Recycles Program is made possible with the support of funding by the Environmental Protection Fund, as administered by the New York State Department of Environmental Conservation. The Agency was awarded a Municipal Waste Reduction and Recycling (MWRR) Grant Contract for 2022 and 2023. The Recycling Outreach Team Work Plan developed under this project is summarized below:

Figure 10. UCRRA Recycling Outreach Team Work Plan, MWRR project

1. Addresses recycling complaints about businesses, apartments, and institutions, and promotes awareness of local recycling requirements and recycling guidelines to reduce contamination,
2. Completes planning unit reports related to measuring and tracking regulated recyclable materials, electronics recycling, organics recycling, household hazardous wastes,
3. Conducts site visits and consultation services to implement or improve existing recycling, composting, or waste reduction programs,
4. Updates/distributes program media such as guides, brochures, contacts lists, flyers, posters, recycling bin stickers, signs, or other media and promotional items to aid in recycling/composting programs,
5. Markets the availability and use of finished compost, and maintains US Composting Council Seal of Testing Assurance Program,
6. Acts as liaison for UCRRA Partners in Composting Program and UCRRA Dual Stream Recycling Program, and strives to increase public participation in both programs,
7. Facilitates presentations and workshops for businesses, schools, community groups, youth groups, and residents, to promote recycling, waste reduction, reuse, up-cycling, and composting,
8. Tables at community events and fairs, and facilitates special recycling events for Earth Day, Compost Awareness Week, Plastic Free July, compost bin sales, or other recycling events
9. Conducts facility tours of the Material Recovery Facility, the Organics Recovery Facility, the Sustainable Living Center, and the home composting demonstration garden,
10. Promotes recycling/waste reduction/composting messaging through UCRRA website, social media, e-newsletters, podcasts, newspaper, radio advertising, bus ads, or other means of communication,
11. Attends and participates in conferences, seminars, and groups or meetings related to regional recycling, organics, waste reduction, or product stewardship initiatives

12. Plans, implements, directs, and reports on the Agency's Household Hazardous Waste Program and promotes awareness of safe disposal practices and alternatives to household hazardous wastes

The Team tracks progress and reports on these milestones on a quarterly basis, per the MWRR contract.

Home Composting Demonstration Garden



The Agency was awarded a Municipal Food Scrap Reduction and Recycling (FSR) Grant Contract for a project during 2019-2022 (contract #T306847). This project was made possible with the support of funding by the Environmental Protection Fund, as administered by the New York State Department of Environmental Conservation. The goals of the project were to develop a food scrap reduction and home composting

education program and construct a home composting demonstration garden at the Agency's Office. The Work Plan objectives for this project are summarized below.

Figure 11. UCRRA Food Scraps Reduction and Composting Education Project Work Plan

OBJECTIVE 1 REDUCE ORGANIC WASTE GENERATION	<p>a. Develop and distribute educational resources about reducing wasted food</p> <p>b. Provide tools that foster waste reduction</p>	<p>Educational content includes topics such as: how to properly store foods, how to interpret best by/use by/sell by food labels, meal planning, donating foods etc.</p> <p>EAT FIRST boxes are small containers or signs that are stored in refrigerators to prompt people to eat the most perishable food items first.</p>
OBJECTIVE 2 REDUCE ORGANIC WASTE DISPOSAL	<p>a. Develop and distribute educational resources about home composting</p> <p>b. Install home composting demonstration site at UCRRA facility</p>	<p>Educational content includes topics such as: home composting methods, feedstocks, best management practices, tips for avoiding pests, how to use finished compost, etc.</p> <p>The compost demonstration site will be used for guided instruction and public education during workshops, tours, etc. Compost bins and related teaching equipment include instructional</p>

	c. Provide tools that foster home composting	<p>signs, compost tumblers, in-vessel composters, three bin systems, Green Cone food digester, vermicompost bin, bokashi bin, turning tools, etc</p> <p>Kitchen food scrap collection containers are sealed 2 gallon buckets that consolidate food scraps for composting.</p>
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The UCRRRA Home Composting Demonstration Project was completed in early January 2022, and the official contract end date was 06/04/2022. The ROT began hosting groups in the garden, and continues to utilize the space as an immersive outdoor classroom to teach the public about backyard composting methods and best practices.

Ulster County Tiffin Project

The Agency applied for the New York State Pollution Prevention Institute's (P2I) Community Grants Program for a project to be completed in July 2024, and learned that it will be awarded the grant in Fall 2023. Due to delays in the contracting process, the project can officially commence in early 2024. The project will allow the ROT staff to collaborate with various community partners and develop a series of educational events that distribute reusable Tiffins (food containers) to residents while educating them about the pollution prevention impacts of reuse and being plastic-free. More details about this project and outcomes will be reviewed in the next Biennial Update.

1.4.2 Recycling Outreach Team Seminars

The Recycling Outreach Team (ROT) hosts special training programs and free educational workshops for the general public, covering a wide range of waste sustainability topics such as: backyard and large scale composting, recycling, waste reduction, upcycling, plastic pollution, reducing toxic chemicals, and other topics. The ROT strives to create an interactive and inclusive learning environment and adapts programs to various age groups or learning styles. The ROT can accommodate distance-learning through teleconferencing, host presentations in the UCRRA meeting room, or conduct presentations at local community centers across the County. The table below shows the ROT's public workshops and public speaking engagements during the planning period (2022-2023).

Figure 12. Recycling Outreach Team Seminars (2022-2023)

2022		
DATE	TITLE	PARTNER OR AUDIENCE DESCRIPTION
02/17/22	Rethinking School Waste	Mount School Academy (Esopus NY)
03/07/22	Rethinking School Waste	New Paltz Middle School Climate Club
03/09/22	Recycle Right	Unitarian Universalist Society of the Catskills
03/15/22	Making & Using Compost in the Garden	Town of Esopus Public Library
03/30/22	UCRRA Organics Recovery Facility	Ulster County Environmental Management Council
04/05/22	Source Separation & Its Impact on Product Quality	New York State Organics Summit (Albany, NY) hosted by the New York State Association of Reduction, Reuse, and Recycling
04/27/22	Recycling Jeopardy	Mount School Academy (Esopus NY)
05/04/22 *ICAW	Indoor Composting	Recycling Outreach Team
05/12/22	Community Outreach for Recycling Leaders	NYS Center for Sustainable Community Solutions.
05/17/22 *ICAW	Intro to Home Composting	Town of Plattekill Public Library
06/07/22	Indoor Composting	New Paltz Climate Smart/Climate Action Coalition.

06/09/22	Composting for Kids!	Wraparound Services School for Achievement (Lake Katrine)
06/10/22	Composting for Kids!	Bennett Elementary School (Onteora Central School District)
06/14/22	Composting for Kids!	Wraparound Services School for Achievement (Lake Katrine)
06/15/22	Oceans of Possibilities: Upcycling Art for Kids	Town of Esopus Public Library
06/16	Composting for Kids!	George Washington Elementary School (Kingston Central School District)
06/29/22	Plastic Pollution & Its Impacts	Town of Gardiner Public Library
07/21/22	Oceans of Possibilities: Upcycling Art for Kids	Town of Rosendale Public Library
07/25/22	Informational Meeting for FSR Grant	Recycling Outreach Team
07/27/22	Eco Friendly Home: DIY Cleaners & More	Ellenville Public Library
07/27/22	Oceans of Possibilities: Upcycling Art for Kids	Ellenville Public Library
10/06/22	Intro to Home Composting	Town of Rosendale Public Library
10/07/22	Home Composting Demo Day at UCRRRA	Recycling Outreach Team
10/07/22	Indoor Composting Methods - Bokashi	Recycling Outreach Team
11/16/22	Leveraging Funding to implement Pollution Prevention Efforts in NYS	New York State Annual Recycling Conference (Cooperstown, NY) hosted by the New York State Association of Reduction, Reuse, and Recycling.
12/09/22	Upcycled Holiday Ornaments for Kids	Town of Woodstock Public Library
2023		
DATE	TITLE	PARTNER OR AUDIENCE DESCRIPTION

01/10/23	Informational Meeting for FSR Grant	Town of Shawangunk Environmental Management Council
02/07/23	Intro to Home Composting	Rosendale Recreation Commission
02/21/23	Recycle Right	Kingston Public Library
03/10/23	Eco Friendly Home: DIY Cleaners & More	Recycling Outreach Team
03/15/23	About UCRRA	Rotary Club of Kingston
03/22/23	Recycling Jeopardy for Kids!	Riccardi Elementary School (Saugerties Central School District)
04/11/23	Intro to Home Composting	Kingston Public Library
04/13/23	Composting for Kids!	Wraparound Services School for Achievement (Lake Katrine)
04/14/23	Composting for Kids!	Wraparound Services School for Achievement (Lake Katrine)
04/17/23	Intro to Home Composting	Town of Shandaken Conservation Advisory Council
04/28/23	Composting for Kids!	Bennett Elementary School (Onteora Central School District)
05/02/23 *ICAW	Indoor Composting: Bokashi	Town of New Paltz Climate Smart Task Force
05/05/23 *ICAW	Composting for Kids and Making Seed Bombs!	Town of Woodstock Public Library
05/09/23 *ICAW	Advanced Composting Seminar	Town of Shandaken Conservation Advisory Council
05/12/23	Recycling Bingo for Kids	Woodstock Library
05/15/23 *ICAW	Intro to Home Composting	Town of Esopus Public Library
06/14/23	Oceans of Possibilities: Upcycling Art for Kids	Crosby Elementary School (Kingston School District)
06/21/23	Composting for Kids and Making Seed Bombs!	Town of Esopus Public Library
07/14/23	Composting for Kids!	Town of Highland Public Library

07/25/23	Composting for Kids!	Bennett Elementary School (Onteora Central School District)
07/10/23	MCR Training "The Waste-Climate Connection"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
07/12/23	MCR Training "Recycle Right"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
07/14/23	MCR Training "Plastic Pollution & Its Impacts"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
07/17/23	MCR Training "Hazardous Waste & Eco Friendly Home"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
07/19/23	MCR Training "Intro to Home Composting"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
07/21/23	MCR Training "Advanced Composting Seminar"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
07/24/23	MCR Training "UCRRA Policies You Need to Know"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
07/26/23	MCR Training "Leadership Summit"	UCRRA Master Composter Master Recycler Volunteer Training & Certification Program
08/02/23	Seed Bombs for Kids!	Town of Highland Public Library
08/14/23	Informational Meeting for MRDCs	Recycling Outreach Team
09/19/23	Intro to Home Composting	Village of Ellenville Public Library
09/20/23	Recycle Right	Town of Shandaken Conservation Advisory Council
09/25/23	About UCRRA	SUNY New Paltz Sustainability Class
10/04/23	Eco Friendly Home: DIY Cleaners & More	Wallkill Public Library
10/18/23	Rethinking School Waste	Rondout Valley High School Environmental Club
10/17/23	Recycle Right Sorting Game for Kids!	Plattekill Elementary School
10/23/23	Recycle Right	Town of Ulster Citizens Org
10/26/23	Recycle Right Sorting Game	Plattekill Elementary School

	for Kids!	
10/30/23	Recycling Jeopardy for Kids!	Plattekill Elementary School
11/08/23	Recycle Right Sorting Game for Kids!	Kerhonkson Elementary School
11/29/23	Greening the Holidays	SUNY Ulster County Community College Environmental Club.
12/08/23	UCRRA Organics Recovery Facility	Farm to Table Class from Culinary Institute of America
12/12/23	Upcycled Art for Kids	Town of Olive Public Library



A total of sixty nine (69) public speaking engagements were conducted during 2022-2023, with twenty six (26) occurring in 2022 and forty three (43) occurring in 2023.

Through the staff's program tracking efforts, approximately six hundred and six (606) adults and one thousand twenty six (1,026) youth were reached by these public speaking events and classes in 2022-2023. The staff conducted one hundred twenty five (125.75) hours of direct community engagement in this category in 2022-2023.

1.4.3 Facility Tours

The Recycling Outreach Team (ROT) hosts guided tours of the Agency's recycling and composting facilities and most tours are typically 45-90 minutes. Facility tours are an important component of the education program because they facilitate community learning about the Agency, its mission, its operations, and the local landscape of materials management. Children and adults receive a high level of instruction during these visits, as well as the opportunity to explore any special interest topics that the group(s) may have. Visitors always leave with a customized kit of Agency media and other resources tailored to their particular interests. The ROT offers tours by appointment and can accommodate 5 - 30 participants at a time. All visitors must review a standard safety briefing and wear personal protective equipment while visiting the operations. The table below shows the ROT's facility tour engagements during the planning period (2022-2023).



Figure 13. Recycling Outreach Team Facility Tours (2022-2023)

2022	
DATE	TOUR GROUP DESCRIPTION
03/04/22	UCRRA Board Member Orientation
03/09/22	Town of New Paltz Climate Smart Task Force

03/23/22	Hudson Compost Services
04/11/22	Ulster County Comptroller's Office
04/12/22	Rondout Valley High School student
04/14/22	Kingston High School student
04/27/22	The Mount Academy students
05/10/22	Town of Hurley staff
05/19/22	Kingston YMCA Farm Project BARK Crew
06/02/22	Ellenville Middle School Environmental Club
06/03/22	Tillson residents
06/07/22	Clean Harbors Environmental Services staff
06/15/22	Tetra Tech staff
07/14/22	Sustainable Hudson Valley Intern
08/25/22	Ulster County Legislator Phil Erner
10/13/22	UCRRA Open House Event (public)
10/21/22	Sustainable Hudson Valley & Ulster County Department of the Environment staff
11/16/22	Ulster County Town Supervisors Association
11/09/22	Culinary Institute of America - Master's Degree Candidate, Sustainable Food Systems
11/28/22	Ulster County Recycling Oversight Committee and Ulster County Energy & Environment Committee
12/19/22	A1 Bottle Return staff
2023	
DATE	TOUR GROUP DESCRIPTION
01/10/23	UCRRA Board Member Orientation
02/02/23	Recycling Coordinator, Sullivan County Division of Public Works
03/02/23	Black Bird Coffee & Infoshop staff

03/24/23	Grow Amsterdam NY
04/25/23	City of Kingston Public Works staff
05/02/23	White Feather Farm
06/01/23	Cahill Elementary School students
06/07/23	Lox of Bagels staff
06/09/23	Upriver Studios staff
06/12/23	Culinary Institute of America students
06/16/23	Town of Bethlehem staff
06/19/23	U.S. Green Business Council staff & Center for Eco Technology staff
07/27/23	UCRRA Master Composter Master Recycler Volunteers
09/07/23	Village of Ridgewood NJ staff
09/12/23	Local resident group
10/12/23	Ulster County Master Gardeners, Cornell Cooperative Extension Association
10/18/23	Half Moon Resort staff
10/27/23	State University of New York at Cobleskill staff
11/06/23	Highland High School students
12/15/23	Ulster County Economic Development

A total of forty (41) facility tours were hosted during this planning period, with twenty one tours (21) occurring in 2022 and twenty (20) tours occurring in 2023.

Through the staff's program tracking efforts, approximately one hundred fifty seven (157) adults and one hundred twenty five (125) youth were reached by these tours in 2022-2023. The staff conducted fifty eight (58.8) hours of direct community engagement in this category in 2022-2023.

1.4.4 Community Festivals & Events

The Recycling Outreach Team (ROT) is often invited to participate in local community festivals and events to host interactive outreach booths. The ROT is also proactive in planning its own special community events along with many local partners. During these types of programs,

event attendees can interact with educational displays, play games, and win reusable prizes like bottles, mugs, straws, or bags. Community events are an important way the Agency reaches new audiences and raises awareness about its programs, services, and media while providing opportunities for adults and children to ‘Ask the Experts’ about recycling and composting.

JUST EAT IT: A FOOD WASTE STORY

In 2020, the Agency purchased the educational license for the award-winning documentary “Just Eat It: A Food Waste Story” which allows the Agency to host free community screenings of the movie. The documentary follows film makers Jen and Grant as they dive into the issue of food waste and pledge to quit grocery shopping and survive only on rescued food waste for six months.



The ROT facilitates these events along with community partners and local independent movie theaters to offer public screenings of the film during International Compost Awareness Week. The ROT hosts an interactive outreach booth for movie-goers to learn about local composting and food sustainability resources and is a unique program offered by the ROT.

ANNUAL COMPOST BIN & RAIN BARREL SALE



Beginning in 2021, the Agency has hosted an annual Compost Bin & Rain Barrel Sale with its vendor partner Brand Builders LLC. Residents can choose from a wide selection of compost bins and various home composting supplies in an online store, place a pre-order, and pick up their items at a special one day bin distribution event held at UCRRA. At the event, residents receive a

complimentary food scrap kitchen collection container filled with various backyard composting and food sustainability resources. **In 2022, 65 compost bins and 55 rain barrels were sold. In 2023, 74 compost bins and 88 rain barrels were sold.**

EARTH DAY TREE & SHRUB GIVE-A-WAY

In 2023, the Agency hosted a Tree and Shrub Give-A-Way on Earth Day for the first time. Residents who dropped off electronics and/or residents that picked up an order of bagged compost on Earth Day received a free tree sapling/shrub, with several different native pollinator species to choose from. This program is made possible by the Soil & Water Conservation District who generously shared excess inventory from their Annual Sale. **Approximately 200 tree/shrub saplings were distributed in 2023.**

ULSTER COUNTY FAIR

The Agency had a significant presence at the Ulster County Fair in 2023, attending the Fair for daily twelve hour shifts. Agency employees and volunteers staffed an outreach booth in Climate Row, which is a vendor area dedicated to nonprofit environmental organizations. At the UCRRA booth, fair-goers could play a trivia game which focused on how recycling conserves energy, and could win reusable prizes among other raffles and give-a-ways. The Recycling Outreach Team hosted live backyard composting demonstrations twice daily at another location of the Fair.



The Agency facilitated a large volume recycling and composting bin distribution for the Fair, launching what would become its new festival bin rental program. Former Executive Director Ollivier single-handedly attempted to facilitate efforts to collect organic materials generated at the Fair by

festival-goers. However, the food scrap collection areas set out for general public were unsupervised which is necessary to guide proper source-separation of materials. Due to this lack of oversight, the collected food from public general use stations was heavily contaminated and unprocessable. On the other hand, participation in composting by the Fair's food vendors proved to be easier to control contaminants, and 1,100 lbs was collected for composting.

The table below shows all of the ROT's community events engagement during the planning period (2022-2023).

Figure 14. Recycling Outreach Team Community Events (2022-2023)

2022	
DATE	EVENT DESCRIPTION
04/20/22	Earth Week at Habitat for Humanity
05/01/22	UCRRA presents: JUST EAT IT: A FOOD WASTE STORY at the Orpheum Theater Saugerties NY
05/07/22	UCRRA's Spring Compost Bin & Rain Barrel Sale
07/30/22	Ask the Experts Outreach Booth at City of Kingston Farmers Market
08/04/22 08/05/22	Green Living Expo (Climate Row) at the Ulster County Fair
09/11/22	Ask the Experts Outreach Booth at the Phoenicia Farmers Market
2023	
01/21/23	"Repairing Recycling Habits" at the New Paltz Repair Cafe, New Paltz United Methodist Church
02/19/23	Girl Scouts World Thinking Day at the Connelly Fire Department
02/26/23	"Repairing Recycling Habits" at the Gardiner Repair Cafe, Gardiner Public Library
03/25/23	"Repairing Recycling Habits" at the Esopus Repair Cafe, Ascension Church
03/25/23	Town of Plattekill Electronics Recycling Event at the Plattekill Town Hall
04/21/23	UCRRA's First Annual Earth Day Tree & Shrub Give-a-way
05/07/23	UCRRA presents: JUST EAT IT: A FOOD WASTE STORY at the Orpheum Theater Saugerties NY
05/20/23	UCRRA's Spring Compost Bin & Rain Barrel Sale
08/01/23 - 08/06/23	Green Living Expo (Climate Row) at the Ulster County Fair
08/20/23	UCRRA presents: JUST EAT IT: A FOOD WASTE STORY in collaboration

	with Shandaken Conservation Advisory Council & Phoenicia Playhouse
10/10/23	Stock the Fridge Game at the Phoenicia Farmers Market
09/13/23	Buy Local Expert hosted by the Ulster County Chamber of Commerce at the Diamond Mills Hotel & Conference Center
09/19/23	Kingston Organics LIVE event, part of Hudson Valley Climate Solutions Week, Forsyth Park
10/14/23	Stock the Fridge Game at the Saugerties Farmers Market
10/24/24	Ask the Experts Outreach Booth at Peoples Place
11/04/23	Stock the Fridge Game at the Kingston Farmers Market



The ROT hosted or participated in a total of twenty two (22) events during this planning period, with six (6) events) occurring in 2022 and sixteen (16) events occurring in 2023. Note: this data does not include the Agency's Household Hazardous Waste Collection Program. Through the ROT's program tracking efforts, one thousand one hundred and one (1,101) adults and two hundred and four (204) youth were reached at these events in 2022-2023. The staff conducted one hundred thirty eight (138.5) hours of direct community engagement in this category in 2022-2023.

1.4.5 Consultation Services & Site Visits

The Recycling Outreach Team (ROT) provides consultation services to assist local businesses or institutions with improving or implementing sustainable waste practices at that location/organization. The ROT defines a “consultation” as an instance where the Educators are invited to a location to conduct a walk through of the grounds along with some of the organization’s core team members. During the consultation, the ROT gathers information about the operations and where/how/why wastes are generated at that location. The ROT produces a report of written recommendations that details a successful waste reduction, recycling, or composting plan based on the observations and interviews, and the report includes resources to put any ideas into action.

While there are many instances throughout the planning period where the ROT provided high level guidance on facility recycling operations, the “consultation” program is tracked according to these specific instances when a site visit is performed and results in a formal report. The list below summarizes the consultations and site visits conducted by the Team in 2022-2023.

Figure 15. UCRRA Recycling Outreach Team Consultations 2022-2023

Date	Facility	Outcomes
06/22/22	The Bearsville Center	<p>The Bearsville Center is a 15-acre campus that houses two restaurants, a bar/grill, a creamery/bakery, as well as a theater complex and a soundstage. The Recycling Outreach Team (ROT) was contacted by the center to streamline their current recycling program, as well as to develop strategies to engage partner businesses in best management practices for onsite recycling. The ROT identified target recyclables and make the following recommendations:</p> <ul style="list-style-type: none"> - <i>Recommendation 1:</i> Establish sorting stations for employee use with bins that are consistent in size and shape, as well as using colors that help differentiate the types of waste. Signage was also suggested to clearly communicate recyclables. - <i>Recommendation 2:</i> Separately collect deposit bottles. - <i>Recommendation 3:</i> Establish a Film Plastic Recycling Program.
06/29/22	Keap Candles	Keap Candles is a candle studio that sought consultation services to streamline logistics of its current recycling practices and identify any new waste reduction or recycling practices. The ROT made

		<p>the following recommendations:</p> <ul style="list-style-type: none"> - <i>Recommendation 1:</i> Establish a Film Plastic Recycling Program. - <i>Recommendation 2:</i> Evaluate recycling service options to maximize efficiency and cost of the recycling program. - <i>Recommendation 3:</i> Establish sorting stations for employee use with bins that are consistent in size and shape, as well as using colors that help differentiate the types of waste. <p>Additional resources on Hazardous Waste Removal Services, UCRRA's Recyclopedia, UCRRA's Business Recycling Tips, and Local Recycling Service Providers were provided by the ROT.</p>
09/02/22	RBW Studio	<p>RBW Studio is a 100,000 square foot facility that serves as a shipping/receiving warehouse, design production space, administrative office space, and an event space. RBW sought consultation services to gather information about how to launch a new composting program and identify any new waste reduction or recycling practices. The ROT made the following recommendations:</p> <ul style="list-style-type: none"> - <i>Recommendation 1:</i> Review composting options by either managing food scraps with on-site composting, choosing to hire a hauler to pick up organics at the curb, or enroll in the UCRRA's Partners in Composting Program. - <i>Recommendation 2:</i> Establish a Film Plastic Recycling Program. - <i>Recommendation 3:</i> Improve wood pallet recycling program.

The ROT also conducts "site visits" to various offices or facilities throughout the County to distribute recycling program media. These site visits are performed at Municipal Recycling Drop Off Centers, Town Halls, Public Libraries, Community Centers, or other sites and may be planned or coincide when the ROT is visiting that area of the County for a different class or program. In the future, the ROT can improve its program tracking metrics for these instances where media samples are delivered in person to a specific location.

1.4.6 Master Composter Master Recycler Volunteer Training & Certification Program

During his tenure at the Agency, former Executive Director Ollivier instructed staff to accelerate the development of a new volunteer program within 30 days. A citizen volunteer

program was discussed in the previous biennial update but was scheduled to be conceptualized and implemented in 2025, and evaluated each year thereafter. The Director of Sustainability shared concerns about the fast timeline, but ultimately was very successful in presenting an implementation plan due to the staff's expertise and prior experiences coordinating community volunteer programs. As a result, the UCRRA [Master Composter Recycler Volunteer Training & Certification program](#) officially launched in July 2023.

Volunteers become an extension of the Agency's Recycling Outreach Team and support the outreach, education, and community engagement services offered by UCRRA in a number of ways. Through volunteering, they help to promote recycling, composting, and other conservation techniques and low-waste lifestyle choices.

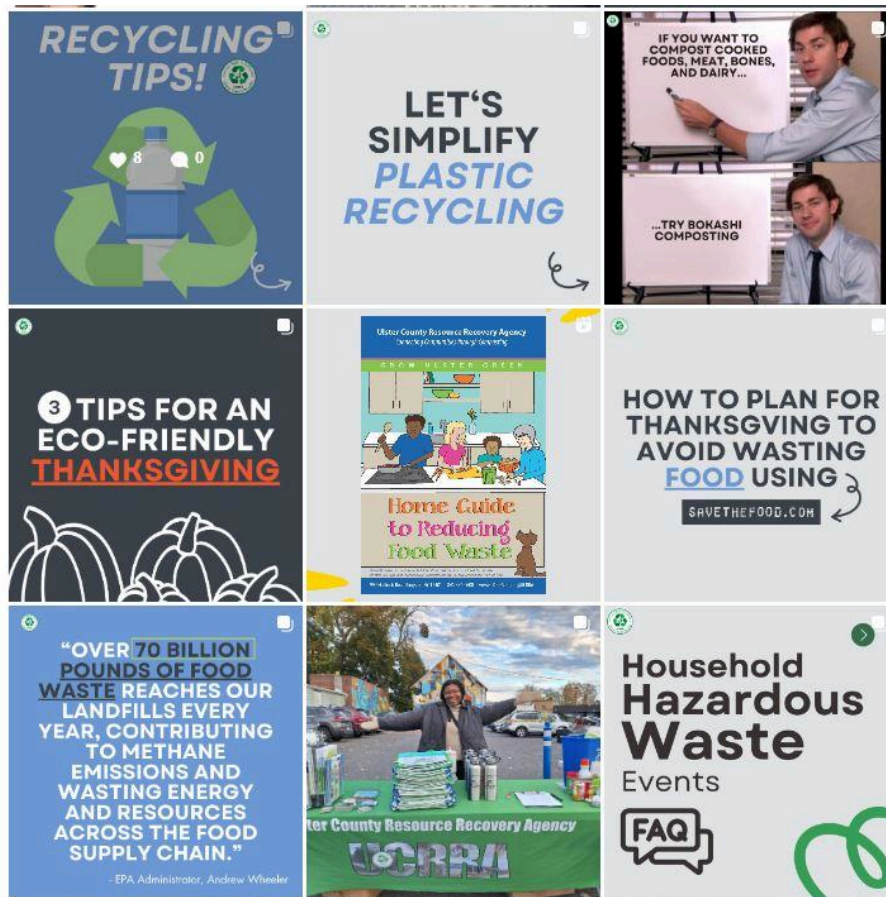
Two volunteer options offer different levels of professional development opportunities, each with its own unique Volunteer Description, so participants can choose a volunteer track that suits their interests and time. A "Fast Track" Option provides only 2 hours of orientation offered by appointment. Fast Track Volunteers are asked to complete 5 service hours per year with very limited tasks/duties available. Another option offered is an "Enrolled Track" which provides 20 hours of orientation/training in the form of ten 2-hour sessions offered annually. Enrolled volunteers receive an official certificate upon completion, and they are asked to complete 20 service hours per year with more diverse volunteer opportunities. All Volunteers must complete a basic application, be screened for references, and sign a Volunteer Agreement/Code of Conduct.



The 2023 MCR Class ran every Monday, Wednesday, and Friday in July and eight (8) Ulster County residents successfully completed the training and began volunteering with the Agency at the Ulster County Fair and throughout various events in Fall 2023. By the end of 2023, the active volunteers had completed thirty two (32.5) volunteer hours supporting Recycling Outreach Team programs.

1.4.7 Social Media, Marketing, and Public Advertising

The Recycling Outreach Team strives to raise community awareness and engagement about waste-sustainability topics with a variety of outreach and public advertising methods detailed in this section.



Social Media

@UCRRA on Instagram was created in the Spring of 2019. In August 2021 the account had 136 posts and 796 followers. As of December 2023, the account has 351 posts and 1,164 followers, a growth of roughly 150 new followers each year. During this planning period, the ROT created 21 new Instagram “reels” and plans to focus on creating more interactive digital content in the future.

@UCRRA on Facebook was created on July 4th 2018. In August 2021 the account had 947 page likes and 1,050 followers. As of December 2023, the account has 1,131 page likes and 1,261 followers, a growth of roughly 90 new likes per year, and 105 new followers per year.

The @UCRRA Youtube Channel was created on April 9th 2020. In August 2021 the account had 36 videos, which collectively had 792 views and 51.7 hours of watch time. The ROT implemented new strategies further discussed in this section under Digital Advertising. As of December 2023, the account has 31 subscribers and 46 videos which collectively have 37,656 views and 178.7 hours of watch time.

Figure 16. UCRRA Recycling Outreach Team Social Media Campaign Topics 2022-2023

January 2022	Implementing State & Local Laws (Polystyrene Foam and Loose Fill Packaging, Food Scraps Recycling Laws)
February 2022	Waste Sustainability Tips for Valentines Day, Celebrating February 25 th National Skip the Straw Day, Ulster County Skip the Straw Law
March 2022	Waste Sustainability Tips for Spring Cleaning
April 2022	"About Us" featuring meet the staff, upcoming events, and service highlights.
May 2022	International Compost Awareness Week Campaign featuring "Recipe for Regeneration," Composting Methods, and Benefits/Uses of Compost
June 2022	Celebrating National Waste & Recycling Workers Week, World Oceans Day & upcoming events.
July 2022	Summertime Sustainability Tips & upcoming events. Celebrating Plastic Free July Challenge and tips for reducing plastic waste
August 2022	Summertime Sustainability Tips & Recycle Right NY - Black Plastic. Celebrating 10 Years of Composting at UCRRA and promoting composting services.
September 2022	Back-to-School Sustainability Tips & upcoming events (Electronics Recycling, HHW, Fall Classes). Recycle Right NY – Tanglers.

October 2022	International E-Waste Day (10/14), International Repair Day (10/15), Go Green on Halloween Series (Costumes, Treats, Decorations), Fall Classes
November 2022	Save the Food Dinner Party Calculator & Food Storage Guide, November Repair Cafes, America Recycles Day, History & Benefits of Recycling, Think Before You Shop, Buy Nothing Day, Facility Holiday Closings
December 2022	December Repair Cafes, Eco-Friendly Holiday Tips, Upcoming Events and facility Holiday Closings
January 2023	“Repairing Recycling Habits” , How to Recycle Holiday Trees, January Repair Cafes
February 2023	Ulster County Skip the Straw Law, Celebrating National Skip the Straw Day, Break up with SUP – Valentine’s Day Edition, Recycling Tip Tuesday – Valentine’s Day Cards, Class Promos
March 2023	Recycling Tip Tuesday – Recyclable Shapes, HHW Series: What is Household Hazardous Waste? Cleaning Products, Safe Storage, Eco-Friendly Home: Eco-friendly Alternative Cleaners, Class Promos
April 2023	Promos for Spring Events & Classes
May 2023	ICAW Campaign; Food is Too Good to Waste; Don’t Treat Your Soil Like Dirt; Compost...It’s Alive; Different Ways to Use Compost; How to Compost in Ulster County; Home Composting Basics; Indoor Composting; Composting Conserves Water; and more. Promos for UCRRA Compost Sales, UCRRA Events & Classes
June 2023	Promos for UCRRA Volunteer Programs, UCRRA Events & Classes
July 2023	Promos for Community Spotlight Blogs, UCRRA Volunteer Programs, and UCRRA Events & Classes
August 2023	Summertime Sustainability Tips and UCRRA Events & Classes
September 2023	Visualizing Litter (Keep America Beautiful) and UCRRA Events & Classes
October 2023	National Coffee Day, DIY Upcycled Halloween Costumes, Pumpkin Scraps Sustainability Tips, Pumpkin Smash Events, Fall Composting, and Events & Classes
November 2023	Thanksgiving series: Reducing Dinner Party Waste, Bokashi, America Recycles Day 2023, and upcoming Events & Classes

December 2023	Greening the Holidays series
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Agency Newsletter

The Agency publishes an e-newsletter using Mailchimp.com that loosely follows the monthly outreach topics described above. The newsletter allows the ROT to reach an engaged, local audience and deliver valuable and relevant content in a consistent manner.

The ROT's newsletter helps to create a sense of community. Residents can sign up to join facility tours, learn about local sustainability champions in their community, or sign up for classes and events that promote waste reduction and sustainability. This allows the ROT to stay engaged with a larger audience by sending relevant information directly to their inbox, resulting in ease and accessibility.

Through the newsletter, the ROT can communicate about environmental celebrations such as Earth Day, Plastic Free July, International Compost Awareness Week, and more. All while inviting subscribers to stay connected with UCRRA through other means, such as UCRRA's website and social media.

In 2022, 6 Newsletters were sent by the Recycling Outreach Team (ROT), resulting in a total of 10,173 "opens." The number of newsletter subscribers in 2022 increased by 18.68%, from 3,775 to 4,480. In 2023, 11 Newsletters were sent, resulting in a total of 21,233 "opens." The number of subscribers in 2023 increased by 8.96%, from 4,497 to 4,900. Subscribers increased by 29.80% between 2022 and 2023, totaling 1,125 new subscribers. This increase is due to the availability of the newsletter signup on UCRRA's website, social media, classes, events, and programs hosted by the ROT.

Agency Blog

The Recycling Outreach Team (ROT) publishes [blog articles](#) that often follow the monthly outreach topics described above. **During 2022-2023, the ROT published approximately nineteen (19) new blog posts.** Eight (8) articles were written in 2022 including titles "Don't Go Wasting My Heart Valentines Day Sustainability Tips" and "How to Throw an Eco-Friendly Summer Party". Other articles highlighted Spring Cleaning, Winter Composting, America Recycles Day, and Eco-friendly Holiday Tips. Eleven (11) articles were written in 2023, including titles "Go Green This Halloween" and "Put Your Garden Beds to Bed". The new Community Spotlight initiative was created in 2023 to highlight local stories of waste sustainability. The ROT interviewed Second Nature Refillery, Black Cat Bulk Goods, Habitat for Humanity, Onteora

Central Schools, and Repair Cafe Hudson Valley. Other articles highlighted Compost Awareness Week, Back to School Sustainability Tips, and America Recycles Day.

Print & Digital Advertising

The Recycling Outreach Team (ROT) coordinates print and digital advertisements and “public service messages” in a number of local publications such as the Ulster County Chamber of Commerce Membership Directory, the Daily Freeman (21st Century Media), Hudson Valley One (Ulster Publishing) and the Shawangunk Journal. Throughout the year, ads promoted Agency services, upcoming events or classes, or aligned with monthly outreach campaigns.

Starting in 2022, the ROT began digital ads on the publisher’s websites, acknowledging that more readers engage with news content online. In 2023, the ROT committed to ensure that new ads would always be accompanied by an online digital version. **During 2022-2023, the Recycling Outreach Team published approximately twenty (20) unique print advertisements and coordinated fourteen (14) digital ad campaigns, which often remained on the publisher’s website for several weeks at a time.**

In 2022, the ROT partnered with local radio station Radio Woodstock (WDST) to create a new [30 second Digital/Streaming commercial](#) for the first time. The “OTT” digital advertising video promoted the Agency’s online Recycleopedia. The campaign targeted Ulster County residents who stream tv on various connected devices (Roku, Sling, TubiTV, PlutoTV, etc.) as well as streaming through cable subscriptions (ABC, NBC, CNN, HGTV, DISCOVERY, TRAVEL). The campaign re-targeted viewers with banner ads that appeared on their mobile devices. The commercial aired February and March of 2022 and was repeated in January and February 2023. **Collectively, the OTT campaigns achieved 258,418 total impressions.**

In 2023, the Agency continued to try new digital advertising strategies to reach new audiences and implemented a Youtube Pre-roll Campaign for the first time. The 30 second OTT commercial was shortened to a [15 second commercial](#), which was shown to Ulster County residents streaming Youtube on connected TVs, desktop computers, smartphones, and tablets. **The Youtube campaign ran for one month (February 2023) and achieved a total of 69,799 impressions.** The ROT continues to diversify and modernize its outreach methods and plans to continue new digital strategies in the future.

Radio Advertising

The Recycling Outreach Team (ROT) coordinates paid radio advertisements with Radio Woodstock (WDST), which accounts for roughly one fifth of the education department’s budget. Radio Woodstock claims to have 42,000+ local listeners in its audience which primarily spans Ulster County and reaches parts of Dutchess, Greene, Columbia, and Orange

counties. The campaign content loosely follows the monthly outreach topics. A mix of 15-second and 30-second “public service messages” are used. **The radio campaigns aired for 7 months in 2022 and 11 months in 2023.**

The Agency also benefits from free public service announcements (PSAs) in partnership with local community radio station Radio Kingston. Recycling Educator Tanesia White was interviewed on “The Black Meta” (Radio Kingston) about low-waste lifestyle tips in September 2022. The ROT recorded two new PSAs in 2022 relating to UCRRA’s ten year composting anniversary and the Recyclopedica. A new PSA was recorded in 2023 relating to local recycling guidelines for plastic. The ROT does not maintain metrics about these free PSAs but believes they aired for 60 days at a time.

1.4.8 New Agency Publications and Media

The Recycling Outreach Team strives to produce informative media such as brochures, booklets, posters, fact sheets, and other guides about various waste-sustainability topics. New media produced during 2022-2023 is detailed in this section. **Please note this is not a comprehensive list of all current media produced by the Agency. Refer to Appendix A - Recycling Program Media Sample.**

Agency Website Updates

The Agency’s new website launched in 2020. Staff continued to make updates and improvements throughout 2022-2023. Several new webpages were created in 2022, including [Find a Reuse Organization](#), [Find a Repair Organization](#), and [Find a Bulk/Refill Location](#). The ROT updated the Agency’s FAQ page and the [A-to-Z Recyclopedica](#) adding more than 50 new listings of hard-to-recycle items. A new webpage was created to archive LSWMP & Biennial Updates. The landing page was reworked in 2023 to link some of the Agency’s most searched pages on the home page and a resource page for UCRRA Employees was added in 2023.

Rethinking Our Waste Video

The [Rethinking Our Waste video](#) is a 3 minute long professional video about the Agency which was created in May 2022 through a collaborative project with SUNY Ulster County Community College via the Digital Visual Narrative ART263 design class. The staff met with the design students over several weeks to develop the content and messaging for the video which is now played at the beginning of most Agency classes or special events. The ROT acknowledges student Jeremy Warg for their contributions towards this project, under the direction of Sean Nixon, Professor of Art & Applied Learning.

LSWMP Retractable Banner and Posters

The LSWMP banner was created in 2022 for use in the UCRRA Main Office or at community events. Posters were created from the design, which features messaging about the Agency's solid waste management plan and key commitments to the future of waste sustainability.

UCRRA 7 R's to Rethink Waste*

This flier was created in 2019 and covers multiple topics, which reduces paper waste by providing information about various recycling programs on one convenient fact sheet (plastic bags, textiles, electronics, medications, home use medical needles). The flier is available in English and Spanish. The flier was updated in 2022, replacing the outdated paint recycling information with details about the new Reuse & Repair lists on the Agency's website.

UCRRA Partners in Composting Poster - Spanish Translation

The Compost Poster was part of a series created in 2021, and was translated into Spanish in 2022. The 11 x 17 posters help guide proper recycling and composting and reduce contamination. The posters include full color images (green for accepted items, red for unaccepted items) and descriptions of items, as well as contact information for UCRRA.

Home Composting Guide Spanish Translation

The Home Composting Guide was created in 2020 and was translated into Spanish in 2022. It is a 12 page educational booklet that includes an introduction about composting, an overview of various compost bins and methods, troubleshooting reference guide, and other topics.

Find a Food Scraps Drop Off Site Flier

The flier was created in 2022 to showcase all of the options for residents to deliver food scraps to community composting programs. The flier has been updated several times as new drop off sites are established or details change.

The Benefits of Compost EDDM Card

This postcard was developed as part of an Every Door Direct Mail (EDDM) initiative and mailed to any resident or businesses within 1 mile of UCRRA (August 2022). The card contained contact information for UCRRA, instructions for how to make an odor complaint, an invitation to tour the facility, and other educational messaging.

Bokashi Composting Booklet

This resource was created in 2022 with the development of a new UCRRA class about bokashi composting. This 4 page introductory booklet explains the pros and cons of the bokashi method, tools needed, best practices, a recipe to make bokashi bran, among other helpful tips.

Eco Friendly Home Booklet

This resource was created in 2022 with the development of a new UCRRA class about alternative cleaning products. This 4 page introductory booklet discusses household hazardous waste and the importance of safely storing and discarding chemicals. The booklet introduces nontoxic ingredients and easy recipes to make household cleaners at home, among other other helpful tips.

Be a Superhero Composting Display

This poster display was created in 2022 for community tabling events. The theme is that anyone can become a superhero and compost their superpowers to save the planet. The display showcases introductory composting topics.

Oceans of Possibilities Display

This poster display was created in 2022 for community tabling events, or static library displays, and was later adapted for a new UCRRA class. The display is geared toward youth audiences and focuses on ocean plastic pollution and the impact of microplastics on marine wildlife and habitats. The display features top solutions to reduce ocean plastic pollution.

Repairing Recycling Habits Display

This poster display was created in 2023 for community Repair Cafe events and was later incorporated into lecture style presentations. The display focuses on wish cycling and tips for how to recycle correctly.

Recycle Right Sorting Game

This game was created in 2023 to guide proper recycling and composting and educate participants about how to sort correctly to reduce contamination. The game features three posters and over 30 items to sort into categories for trash, recycling, composting. The game can be adapted for all ages/audiences.

Stock the Fridge Game

This game was created in 2023 to educate participants about the best food storage practices that reduce spoilage. The game features a refrigerator display and over 30 items to sort into various locations inside the fridge (freezer, top shelf, lower shelf, humidity drawers, door, etc. The game can be adapted for all ages/audiences.

Safe Disposal of SHARPS & Medications Display

This poster display was created in 2023 for the Main Office Bulletin Board. The display focuses on the importance of safe disposal of medical waste and how/where to drop off home use medical needles and pharmaceutical waste correctly.

UCRRA Household Hazardous Waste Program Poster

This poster was created in 2023 for distribution to Town Halls and Municipal Recycling Drop Off Centers. The poster focuses on the importance of safe disposal of household hazardous waste and how to participate in the Agency's safe disposal program.

UCRRA Electronics Recycling Program info card

This small pocket style flier was created in 2023 for distribution at the Agency's e-waste collection program. The pocket guide is a quick reference for what is and is not accepted through the Agency's free electronics recycling service.

UCRRA Bagged Compost Poster

This poster display was created in 2023 for the Main Office Bulletin Board or for use at festivals and events. The poster promotes how to purchase the Agency's compost in 1 cubic foot bags.

UCRRA Master Composter Master Recycler Program Media Suite

These materials were created in 2023 for the promotion and coordination of the Agency's new volunteer program. The media suite includes a flier, a volunteer application, volunteer descriptions, a checklist, a class schedule, and a complex binder of resources used for volunteer training purposes. Several new classes were created for the volunteer orientation.

UCRRA Partners in Composting "What to Compost" Rack Card

This rack card was developed as a reference guide for participants enrolled in the UCRRA Composting Program and explains accepted and unaccepted items. The card helps reduce

contamination with full color images (green for accepted items, red for unaccepted items) and descriptions of items, as well as general introduction about the Agency's operation.

UCRRA Partners in Composting Compostable Products Fact Sheet

This document was developed as a reference guide for participants enrolled in the UCRRA Composting Program and explains the Agency's policy on the acceptance of compostable products. The flier includes educational content about the challenges of processing compostable packaging.

Recycling Outreach Team Class Catalog

This document was created in 2023 to promote all the various classes and topics covered by the Recycling Outreach Team.

Dual Stream Recycling Signs for MRDCs

This project involved the redesign and distribution of professional printed signs for every Town Transfer Station in Ulster County. The signs featured color-coded Do's and Don'ts of recycling for each material stream (commingle, glass, mixed paper, corrugated cardboard). The signs were beneficial to streamline messaging about what items are acceptable for recycling, and perfectly matched the design and branding of an existing media piece, the Dual Stream recycling Guide. Signs were distributed at an MRDC Informational Meeting in August 2023 or were otherwise delivered directly to every Town Transfer Station.

Event Sorting Station Signs

This project involved the design and printing of color coded paper signs to help festival-goers understand the Do's and Don'ts of common recycling, composting, and trash generated at festivals. The paper signs can be inserted into a plastic sleeve that hangs directly over the new festival event bins acquired in 2023. In the future, the ROT hopes to have these professionally printed onto a more durable, waterproof material.

The Recycling Outreach Team also maintains several contact lists that are updated annually but are not listed here.

1.4.8 Diversity, Equity, and Inclusion

The Recycling Outreach Team (ROT) proudly fosters the advancement of diversity, equity, and inclusion in program development and pedagogies. Beginning in 2022, the ROT started incorporating Accessibility Statements in all class postings and promotions in an effort to

create a more welcoming and inclusive environment for all. Since 2022, the ROT has translated many of its publications into Spanish, including social media content. Video content on social media includes closed captioning, another example of how the Recycling Outreach Team strives for inclusivity and equal opportunity programming. The ROT continues to seek ways of making its programming more accessible for all and reaching all audiences in the diverse communities of Ulster County.

1.4.9 Professional Development

The Recycling Outreach Team staff are active members of the Solid Waste Association of North America (SWANA) and its NY chapter NYSASWM, as well as the New York State Association of Reduction, Reuse, Recycling (NYSAR3), the National Recycling Coalition (NRC), and the United States Composting Council (USCC). These industry groups provide newsletters, magazines, email blasts, conferences, and other opportunities for the staff to stay informed about advancements in the solid waste and recycling industry, best practices in recycling education communications, and other professional development benefits that ensure that the ROT is incorporating the best available research-based information into its programming.

In the broader materials management community, Angelina Brandt and Tanesia White have participated in stakeholder groups such as the Recycle Right NY campaign, NY Compost Awareness Week, and other solid waste working groups. Brandt actively serves on the (NYSAR3) Organics Council and the (NYSAR3) Annual Organics Summit conference planning committee. In the past, Brandt has also served on the (NYSAR3) Single Use Plastics committee, and the Membership and Young Professionals committees for the U.S. Composting Council. Brandt and White both participate in the (NYSAR3) Women for Recycling committee, and White is co-chair for the (NYSAR3) Membership/Young Professionals/DEI committee.

The Recycling Outreach Team also participates in the Hudson Valley Regional Council - Materials Management working group, which is a network of Region 3 counties and solid waste planning unit members. The group meets on a quarterly basis to discuss development of projects, challenges, and opportunities in the local region.

A specific list of conferences, webinars, and other professional development is listed below:

Figure 17. UCRRA Recycling Outreach Team Professional Development 2022-2023

2022 Professional Development Opportunities

- 04/05/22-04/06/22 NYS Organics Summitt (Albany)
- 05/22/22-05/25/22 NY Federation Solid Waste Association "Strive for Sustainability" Conference (Bolton Landing)
- 11/12/22-11/14/22 NYSAR3 Annual Recycling Conference (Cooperstown)
- 02/24/22 Conference call w/NYS Compost Awareness Week Steering Committee
- 03/03/22 Conf. Call w/Hudson Valley Regional Council - Materials Mgmt. Group
- 3/21/22 Interview with Christopher Thomas, SUNY ESF thesis project on compostable packaging – collaboration w/NYS Center for Sustainable Materials Mgmt.
- 01/12 Webinar: Into the Green Bin: Collecting Food Waste from Institutional Settings
- 02/03 Webinar: Plastics Recycling in the Capital Region: Myths vs. Markets
- 02/23 Webinar by NorthEast Recycling Council: End Markets for Finished Compost
- 3/16 Webinar: "Spring Forward: Ditch Disposables"
- 03/17 Webinar "Creating Effective Messaging: Communications Strategy for Recycling Leaders"
- 03/21 Webinar "Engaging with Diverse Communities"
- 03/23 Conf. Call – NY Compost Awareness Week Ambassadors Mtg.
- 03/24 Conf. Call – NYSAR3 Women for Recycling Committee w/webinar "DEI/Cultural Competence"
- 03/24 Webinar " Understanding the STA Program to Sell More Compost"
- 08/04 meeting with Sustainable Hudson Valley regarding the Regional Climate Action Strategy (Materials Management Maps)
- 09/06 Webinar PFAS in Packaging NYS Law hosted by NYS Department of Environmental Conservation
- 9/07 Webinar: Reuse Centers: Creating Local Community Connections hosted by the NorthEast Recycling Council
- 9/07, 9/14, 9/21, 9/28, 10/06, 10/13, 10/20 (Course Audit) Beyond Plastic Pollution hosted by

Bennington College

- 9/20 Webinar Solar Panel Recycling EPR
- 12/09 Recycle Right NY - Focus Group meeting
- 12/13 Webinar: Strategies for Residential Food Waste Reduction & Composting

2023 Professional Development Opportunities

- 03/28, 06/20 - (NYSAR3) Organics Council meeting
- 03/16, 07/17- (NYSAR3) Organics Summit Planning Committee
- 03/16, 04/20, 05/18, 06/15 - (NYSAR3) MEDI+ Committee
- 1/19 NYSAR3 Women for Recycling Committee meeting
- 09/06 Recycle Right NY Committee
- 08/2, 08/10 NYSAR3 Conference Planning Committee
- 03/09, 04/10, 05/03, 05/10, 06/22, 07/07, 07/12, 08/10, 09/13– NYS Association of Reduction, Reuse, Recycling (NYSAR3) Young Professionals Committee
- 1/25/23 and 04/26/23 Hudson Valley Regional Council - Materials Management group
- 03/30 Webinar: Paint Care: It's on a Roll
- 04/11 – Webinar: New York Solid Waste Management Plan
- 04/11 Webinar: Materials Reuse Forum - Measuring Economic Impacts of Reuse

1.5 Recycling Compliance Activities

The Agency's compliance efforts are based on the Ulster County Solid Waste Management Law, Local Law Number 10 of 2012 (also referred to as Flow Control Law) and the Ulster County Mandatory Source Separation and Recycling Law, Local Law Number 4 of 2010. A copy of these laws can be accessed through the Agency's [website](#). Enforcement and Local Hauler Licensing Practices are discussed in the original LSWMP in Section 4.4. (p.47) and Section 4.6 (p.48) in further detail.

1.5.1 Hauler Recycling Plans

No commercial haulers can collect, transport, or dispose of MSW generated within Ulster County without obtaining a Hauler License issued by the Agency, per requirements of the

Ulster County Flow Control Law. Each license issued is valid for a one year term expiring on December 31st of the year of issuance. The Flow Control Licensing Application is an important mechanism to: request details about the hauler's qualifications to conduct waste collection; communicate a list of authorized and unauthorized wastes at UCRRA facilities; collect information about the hauling vehicles used, collection practices and routes; and assert recycling requirements per the Ulster County Mandatory Recycling Law, Local Law Number 4 of 2010.

All applicants are required to complete "ATTACHMENT A" of the Hauler Permit Application which is the Commercial Hailer Waste Reduction and Recycling Plan. This section collects details about the recycling collection methods, schedules and specific items accepted for recycling to assure conformance to regulated recyclable categories. The Recycling Plan documents examples of customer education (narrative and hardcopy examples of recycling guidelines) and each applicant must certify to acknowledge the terms of the Mandatory Recycling Law. The Agency continues the goals of better understanding and monitoring hauler recycling practices.

The Agency issued 16 Hauler Permits in 2022 and 17 Hauler Permits in 2023 and monitored changes in the local recycling infrastructure. In recent years, companies like Empire Waste, Russo Sanitation, Smith and Smith, and Superior Waste have gone out of business, merged or were sold to larger waste hauling companies. A new commercial hauler, Sonny Zito Sanitation, was permitted for the first time in 2023. The Agency maintains a [webpage](#) listing all current permitted haulers.

In December 2022, former Executive Director Ollivier communicated to all permitted waste haulers regarding compliance matters. Permitted haulers (in the business of curbside collection) were invited to meetings at the Main Office on January 12th 2023 (9-10am) and January 13th 2023 (3-4pm) hosted by Ollivier with the Agency Attorney Ken Gilligan. It is understood that Ollivier generally discussed the ongoing efforts and intentions to increase enforcement and monitor hauler practices for regulated recycling, though unfortunately, no sign-in sheet or meeting minutes were ever maintained.

1.5.2 Annual Reporting

Each year the Agency requests waste and recycling metrics from large waste generators located within the planning unit and surveys any relevant businesses that are located outside of Ulster County but may accept waste or recyclables generated within the planning unit. These efforts are essential for long term planning, understanding, and quantifying the flow of

waste and recyclable materials, including regulated recyclables. This data can be used to estimate total waste generation, diversion rates, and recycling rates for Ulster County.

Vendors, businesses, and municipal facilities who are surveyed represent various business sectors such as grocery stores, home improvement centers, retail outlets, scrap metal recovery facilities, waste and recycling haulers, municipal recycling drop off centers, educational institutions, healthcare facilities, and other large waste generators. The contact list for this report may vary from year to year and is updated annually; new contacts may be added or re-categorized as necessary.

These efforts have been critical for documenting commercial hauler recycling practices and evaluating recycling activities by local businesses and institutions. The staff have been successful with identifying and addressing some compliance issues resulting from the annual report surveys. However, the Agency acknowledges that these reporting practices could be improved with future revisions to the Mandatory Recycling Law, and with an appropriate staffing plan, the Agency could be more effective at pursuing investigations as a result of these reporting practices.

Detailed survey results are provided in Sections 2.1.1 - 2.2.3 of this document.

Refer to Appendix D - Ulster County Annual Waste & Recycling Report for additional information about these reporting practices.

1.5.3 Recycling Enforcement

The Agency receives and investigates a range of recycling complaints and concerns. Complaints are considered formal if received through the Agency's website 'contact us' form, by phone on the Recycling Hotline, in person, and if the complaint includes enough information to investigate a specific site, company, location, timeframe, etc. To some extent, each complaint may require an individualized approach to effectively evaluate and address the specific circumstances.

As a general practice, the Agency documents all instances of formal recycling complaints and first seeks to substantiate claims as necessary. Occasionally, an informant may suspect a recycling violation but upon investigation, the facility or business in question may be found to be compliant with the law. The Agency equally engages with claims that can be substantiated and has investigated and documented violations in recent years.

The staff recognizes that leading enforcement efforts with education often leads to more favorable compliance outcomes. First contact with a business owner or property manager may be a phone call interview, or a random site visit to verify recycling inefficiencies. This may

include or be followed by a direct mailing to inform (educate) about the requirements of the Mandatory Recycling Law, explain options for recycling services, and to communicate expectations for how to demonstrate compliance, such as submitting proof of recycling services, invoices, staff training memos, etc. within a certain time frame (typically 45-60 days). Some scenarios may call for site visits with more educational consultations, resources, and to verify changes to the facility's waste program. Each complaint or scenario may require a different course of engagement, which has presented difficulties with creating a standardized plan or action steps for the Agency's compliance efforts.

The Agency Board and staff have a deep interest in facilitating more standardized protocols for compliance and enforcement strategies in the future. In recent years, there has been some uncertainty about the levels of intervention within the Agency's control and more clarification is needed about the structure of the law and the updates that are necessary. Former Executive Director Ollivier, Agency Board members, and Agency staff reviewed the Ulster County Mandatory Source Separation Law at the November 2022 Regular Board meeting and consulted with Agency Counsel on what the Agency can legally do to become more effective at enforcement strategies in the future. It was learned that the County of Ulster appointed a new Administrative Law Judge to work with the Agency on compliance issues. Ollivier planned to meet with all necessary stakeholders (Sherriff, Law Judge, haulers, etc.) to discuss any new procedures or potential effects on the hauler licensing process. Unfortunately, no record or minutes from these meetings could be found in the wake of Ollivier's separation from the Agency.

Historically, the Director of Operations & Compliance, the Agency's part time Environmental Compliance Officer, and other staff, have worked collaboratively to respond to recycling concerns in the absence of a dedicated full time Recycling Compliance Officer throughout 2022. A lack of dedicated personnel was a great challenge for implementing improved systems of progressive discipline and other protocols.

At the January 26th 2023 Regular Board Meeting, the Board of Directors passed a Resolution. No. 2584 Regarding the Authorization of a Revision to the Compliance Officer Job Description. In April 2023, former Executive Director Ollivier recruited and hired a Recycling Compliance Officer following a period where the position had been vacant. Ollivier subsequently changed the Agency organizational chart effectively placing this staff position under his direct supervision. Ultimately, the Compliance Officer employee separated from employment with the Agency less than six months after being hired. Because Ollivier was also terminated, the effects of any new changes or process implemented during that time is presently unknown by the staff. Regardless, the Agency plans to recruit and hire a dedicated Recycling Compliance Officer in 2024, after the Agency establishes its next new Executive Director and closely

evaluates the policies and procedures necessary to effectuate the successful continuation of the recycling enforcement program.

1.6 Plan Implementation Challenges

1.6.1 Changes in Executive Leadership

The role of an Executive Director is a distinctly influential component of the execution of the Agency and implementation of strategies outlined in the LSWMP. Beginning in July 2020 Agency personnel Timothy DeGraff was appointed as Acting Executive Director, in addition to his role as Controller, following the resignation of former Executive Director Timothy Rose. DeGraff had been Controller of the Agency since January 2007 and brought 14 years of perspective and an extensive financial, administrative, and managerial skill set to his role. DeGraff continued to work as ‘Acting’ Executive Director until the Board formalized his position on March 29th 2021, *nine months later*. **Due to the transitional nature of this time, many of the major implementation objectives outlined in the original LSWMP could not be effectively pursued during the first two years of the plan, which was discussed in the previous biennial update.**

As the Executive Director, maintaining his dual role as Controller, DeGraff made various recommendations to the Board, many of which were pursued and implemented, including a significant capital project to expand and improve the Organics Recovery Facility, recommendations to improve staffing and the organizational structure, and other key efficiencies were realized. Degraff also pursued several opportunities to learn about alternatives to landfilling and alternative technologies. Perhaps the keystone of his tenure as E.D. was maintaining the Agency’s essential services and daily operations during the extraordinary circumstances of the coronavirus pandemic, which posed many challenges discussed in the previous biennial update. Ultimately, Degraff returned to his role in Finance and withdrew himself as Executive Director in mid-2022. The search for a new Director lasted six months, effectively holding up any major new initiatives as the Board of Directors wanted input from a new, incoming Executive Director.

The Board recruited and hired Greg Ollivier, of Bakersfield California, in October 2022. Ollivier was promptly tasked with several major initiatives to further investigate the feasibility of a countywide landfill, as well as research alternatives to landfilling. Ollivier was tasked with monitoring, evaluating, and advising the Board on the development of a County initiative, a *Reuse Innovation Center* feasibility study overseen by the County’s Department of Environment. Ollivier was instructed to focus on building positive relationships with these stakeholders and with other elected officials. With Agency goals of maximizing waste

diversion, Ollivier also became responsible for researching and presenting plans for a new mattress recycling initiative, ensuring recycling enforcement activities were managed, and other high priorities from the Board of Directors. During his tenure, two Board members resigned. Ultimately Ollivier served in this position for only ten months. Following his six month review and investigations into confidential personnel matters, the Board of Directors unanimously voted to terminate his contract in August 2023.

By the end of 2023, the Board of Directors agreed to hire an interim Director, Anna Roppolo, to help lead the search for a permanent Executive Director and help guide the Agency's business decisions while the search is conducted. Roppolo previously served as Executive Director and Finance Director of the Rockland County Solid Waste Management Authority from August 2005 until June of 2020. During her tenure at RCSWMA, Roppolo was responsible for various waste and recycling facilities while implementing policy initiatives of a 17-member Board and an annual budget of roughly \$53 million. In a press release published by the Board of Directors, *"Roppolo will lend her expertise and experience to UCRRA staff and Board as the Agency navigates an array of complex concerns that will steer the future direction of the county's approach to materials management."*

Similarly to the importance of an effective Executive Director, the Board of Directors is key in governing the execution of Agency business affairs and implementation of strategies outlined in the LSWMP. **In addition to having three different Executive Directors over the last two years (Degraff, Ollivier, Roppolo) the Agency has had eleven (11) different volunteers serve on its five-member Board during the same time period (Beinkafner, Landi, Mitten, Meyers, Kacandes, Gordon, Becker, Ghiorse, Egan, Obijiski, Gilmour). Each new member brings a new perspective and opinions on the direction of the Agency, which has influenced the evolution of long term goals and projects.**

Presently, the Board is also recruiting to hire a new Agency Counsel to advise the Board and staff on future legal or contractual matters. Board member orientation is perpetually ongoing as some member's terms are scheduled to expire December 31st 2023. The County Energy Environment and Sustainability Committee, which is the governing body that appoints Agency Board members, intends to request the State Legislature approve an expansion of the Agency Board from five to nine members, among other proposed changes to who may serve on the Agency Board and the manner in which they become appointed.

With all of these leadership roles in transition, the future management of major initiatives remains slow to progress despite strong desire by the Board and staff to realize the Agency's full potential for sustainability.

1.6.2 Ulster County Landfill Feasibility Study

The Agency's original LSWMP concluded that the Agency will conduct a landfill feasibility study and set the implementation goal for the first two years of the plan. In July of 2021, the Agency hired HydroQuest to conduct a GIS Analysis to identify any number of potential sites in Ulster County that conform to NYSDEC landfill siting criteria, are protective of the environment, and are not situated in heavily populated or Environmental Justice Areas. HydroQuest is an environmental consulting firm providing hydrologic, geologic, and land use technical services since 1993. Their [website](#) discusses professional qualifications:

"HydroQuest's environmental protection work involves document review, identifying issues, conducting hydrologic and geologic characterizations, interpreting data, and developing strategies designed to protect water resources and community character. HydroQuest extensively uses GIS technology and other graphics programs to present important concepts to judges, juries, towns, and planning boards, as well as for use in reports, affidavits, and technical presentations. Paul Rubin is an experienced hydrogeologist and geologist with 40 years of extensive field and litigation experience spanning 19 states. HydroQuest work products have appeared in numerous publications, have been presented to professional geologists on conference field trips, and have been presented to both local and international audiences. Paul Rubin is a strong environmental advocate with memberships in the Geological Society of America, National Ground Water Association, American Water Resources Association, Natural Resources Defense Council, National Speleological Society, Land Trust Alliance, Sierra Club, and Pipeline Safety Coalition."

The HydroQuest project involved a stepwise elimination process using a combination of many GIS database tools and rigorous geologic and hydrologic assessments. **At that time, the goal of this project was to identify any number of sites within Ulster County that exhibit physical characteristics potentially suitable for the development and operation of a county landfill.** The proposal had set the completion date as December 31st 2021.

During the last biennial update, it was noted that during an Agency Board meeting on October 4, 2021, members discussed the challenges of how to convey the purpose of this study and the technical information contained therein, given sensitivity to concerns about landfills, and the historical context of Not-In-My-Backyard campaigns that inhibit landfill siting. Following this meeting and local news coverage by the Daily Freeman (21st Century Media) **the Agency received eight Resolutions Opposing the Creation of a County-Wide Landfill from local municipalities, including:**

- Town of Esopus - October 21st 2021
- Town of Shawangunk - Res. # 4-2021 - October 21st 2021
- Town of Ulster - October 22nd 2021
- Town of Plattekill - Res. # 21 of 2021 - November 3rd 2021
- Town of Hardenburgh November 4th 2021
- Town of Lloyd - November 8th 2021
- Town of Rosendale - Res. # 11-2021-#7 - November 15th 2021
- Town of Woodstock - Res. # 243-2021 - November 23rd 2021

The following section will seek to provide a comprehensive update, and an accounting of circumstances and outcomes surrounding the Agency's activities to investigate the feasibility of a countywide landfill during this planning period 2022-2023.

The Agency Board of Directors received its DRAFT report from HydroQuest in January 2022, pursuant to its feasibility study agreement. At that time, the Agency considered the report to be a confidential draft needing internal review before it could be finalized and presented publicly. **Notably, the composition of the five member Board changed almost immediately after receiving the Hydroquest draft, with two new members (Gordon, Becker) in February 2022. Ultimately, within another 60 days, there were other changes in executive leadership, as discussed in Section 1.6.1. The new Board held a range of perspectives on the validity of the report, its level of completeness, and the interpretation of how it could inform any next steps.**

Further discussion of the draft Hydroquest report was de-prioritized as the search for a new Director launched and lasted six months. The Board hired Greg Ollivier, of Bakersfield California, in October 2022. Ollivier was promptly tasked with further investigating the feasibility of a countywide landfill, and Board members continued to discuss their opinions of the level of completeness and validity of the previous Hydroquest report. **Ultimately, within another 60 days, the composition of the five member Board changed again, with two new members (Ghiorse, Egan) in January 2023.**

At the Agency's January 26th 2023 Regular Board Meeting, the Board unanimously passed **Resolution No. 2585, Authorizing and Approving a Request for Proposals for Engineering Services.** The RFP would seek to identify costs and timeframes for a new landfill feasibility study that was more detailed than the Hydroquest report.

In the following days, a local news publisher, Daily Freeman (21st Century Media) published several articles describing the new landfill study. The article(s) included statements by former Board members (Landi, Beinkafner) who were quoted discussing the circumstances of the

confidential HydroQuest draft, regarding GIS mapping work and the two potential sites that were identified, both of which were located in the Town of Plattekill. The reporter characterized the draft HydroQuest report as “being kept behind closed doors” as Ollivier publicly questioned the credibility of the HydroQuest report and asserted that he planned to commission a more comprehensive report.

Ollivier attempted to address rising public concerns at the Agency’s February 23rd 2023 Regular Board Meeting, where he stated that:

“I would like to make it clear that we are not currently working toward placing a landfill in Ulster County and we have not identified a location for placing a landfill. A study was prepared but has never been accepted as an official document within UCRRA. It identified some potential landfill locations, but because of its unofficial and draft status, it is not being used by the agency in any manner. What the agency has done is issue a Request for Proposals to identify the cost and time it would take to complete a broad and comprehensive landfill Feasibility Study. We have not commissioned a study yet and will not be able to determine if one will be performed until we evaluate the proposals we receive...”

During the public comment period, several Plattekill residents spoke. Per the meeting minutes, the main concerns raised were: confusion if the Agency is in the process or not in the process of placing/siting a landfill; questions regarding the HydroQuest study and if copies were available; concerns that the town was not being notified regarding the possible landfill site; concerns about the Hertel Landfill Superfund site and the waterways, drinking wells, and residences in the area; Plattekill not wanting the landfill in their Town; clarity on what other sites were identified outside of Plattekill, if any; past studies about countywide landfills, and regionalization. Board and staff addressed the comments throughout the meeting and attempted to provide further clarification about the Hydroquest report and the new RFP for a new landfill feasibility study.

Despite these efforts, the Agency received a surge of public opposition to any potential landfill site in the Town of Plattekill. The Daily Freeman continued to publish articles that mischaracterized Agency activities. The Agency received over a dozen letters from Plattekill residents concerned about landfill siting. At the March 21st Ulster County Legislative meeting, Councilman for the Town of Plattekill (DePew) spoke in opposition of a Plattekill landfill during the public comment period. A social networking group called “Plattekill Dump Opposition” was created on March 22nd on Facebook and grew to eight hundred and eleven (811) members. Public sentiment and tensions about the Hydroquest report and RFP escalated.

At the Agency's March 23rd 2023 Regular Board Meeting, seventeen (17) residents and two sitting County Legislators (Greene, Roberts) addressed the Board at Public Comment Period. Per the meeting minutes, the main concerns and comments were: pollution, safety, traffic, odors, concerns of wetlands and effect on residents quality of life; Plattekill residents are all against a landfill siting in the Town; continued questions about the Hydroquest report and the new RFP process; costs; and ways of promoting recycling and alternatives to landfilling. Board and staff responded to the comments and committed to transparency in its process to investigate if a landfill project is feasible.

Ollivier authored a public statement for the Agency's website on the following day which further asserted his interpretation of the history and context of the projects. He emphasized that the Agency had not decided that a landfill is even possible. Ollivier stated,

"...UCRRA staff [consulted] with DEC about the potential of developing a landfill in the County. DEC recommended that staff look at maps and other data to first eliminate all areas that are not suitable for placing a landfill and then move forward from there....When the study was completed it was determined that a more comprehensive study would need to be performed before any decisions could be made concerning the development of a local landfill. For this reason, the board did not officially receive the document as a completed report and did not use it to inform any decisions concerning the question of a local landfill...[the report] was not released to the public because it would only cause undo concern by residents."

In the following days, public opposition and activism against a countywide landfill deepened. The Daily Freeman (21st Century Media) continued to publish articles criticizing the Agency and the landfill studies. A petition titled "We oppose a countywide landfill in Plattekill" was created by Legislator Kevin Roberts on the website change.org on March 26th 2023 and accumulated nine hundred and seventy six (976) signatures. The Town of Newburgh Town Board (Orange County) unanimously passed a resolution "Opposing Proposed Siting of a Landfill in the Town of Plattekill" on March 27th. In April, landfill opposition was discussed at the Town of Ulster Town Board meeting. The Town of Lloyd Town Board passed a resolution "Opposing Proposed Siting of a Landfill in the Town of Plattekill " on April 19th 2023. And on April 6th, Resolution No. 200 (Opposing a Countywide Landfill in Plattekill) was introduced at the Ulster County Energy, Environment, Sustainability (EES) Committee meeting for the first time, though no action was taken during that meeting.

At the Agency's next Board Meeting on April 27th 2023, during old business, Ollivier provided an update on the RFP for engineering services regarding a landfill feasibility study. He noted that two responses from qualified firms were received and were being scored based on his

own criteria. He informed that he had interviewed both firms to clarify the project scope and shared an opportunity for both firms to provide an addendum after his interview discussion with them, and that he was waiting to receive updated documents. Board Member (Egan) made a motion to set up two meetings in May for one-hour time slots for each company to provide a presentation, but these presentations ultimately never occurred.

In May, two UCRRA Board Members resigned, including the Vice Chair (Becker) and the Treasurer (Kacandas). In one member's resignation letter, which was made available to the Daily Freeman News, Ollivier and the Agency Board were scrutinized over the conduct surrounding the landfill studies, and other issues, which further increased public tension and distrust about the Agency activities.

On May 4th, Resolution No. 200 (Opposing a Countywide Landfill in Plattekill) was voted on by the Ulster County Energy, Environment, Sustainability Committee, and passed, allowing the resolution to be forwarded to the full legislative body. At the Ulster County Public Hearing and Legislative Session on May 16th, Resolution 200 is presented, discussed, and is initially defeated in an 11 to 11 vote, until one Legislator (Maloney) switched their vote from in favor, to opposed, triggering a motion to reconsider the vote at the next Legislative meeting.

At the Ulster County Legislature's Regular Meeting held in June 2023, there were six (6) speakers who shared concerns about the siting of a landfill in Plattekill and spoke in support of Resolution 200 during the public comment period. The petition of signatures from Plattekill residents was submitted to the Legislature. **Resolution No. 200 of 2023 (Opposing A CountyWide Landfill On Two Specific Parcels Of Land In The Town Of Plattekill) was brought for reconsideration and was adopted, as amended, passing 14 to 9.** (Noes: Legislators Bartels, Cahill, Criswell, Gavaris, Greene, Heppner, Levine, Stewart, and Uchitelle). Earlier that month, the Orange County Legislature Committee of Ways and Means passed a resolution in support of the Town of Newburgh's opposition to the siting of the UCRRA landfill in the Town of Plattekill.

Throughout the summer of 2023, the award of the Agency's Landfill Feasibility Study continued to delay, despite Ollivier's monthly commentary and updates at Board meetings. The Agency welcomed two new Board Members (Obijiski, Gilmour) at the August 25th 2023 Board Meeting. At this same meeting, Ollivier was terminated for matters unrelated to the landfill feasibility study

Over the next month, a County Resolution No. 548 "Requesting The Ulster County Resource Recovery Agency (RRA) Terminate Further Landfill Feasibility Studies" is developed and is presented at the September Ulster County Legislature's Regular Meeting. Resolution No. 548 was defeated in a 8 to 14 vote.

In early October, the UCRRA Board of Directors hired an Interim Executive Director, Anna Roppolo. Roppolo was primarily tasked with helping lead the search for a permanent Executive Director and helping guide the Agency's business decisions, including the RFP for landfill feasibility studies, while the search is conducted. At the Agency's October Regular Board Meeting, in a memo submitted to the Board of Directors, Roppolo advises the Board,

"...UCRRA consulted with NYSDEC for guidance regarding steps to siting a landfill. NYSDEC Region 3's Director's office recommended following the guidance based on the current regulations. According to the regulations, the preliminary step first requires the county to carve out those areas in the county which would NOT be suitable for a landfill site...The second step of preliminary siting is a determination of willingness to host site, ease of ingress and egress to site with regard to vehicle and truck traffic, local area with regard to proximity to local neighbors, etc.

The analysis provided by Hydroquest produced two preliminary sites. It is my understanding that a determination and recommendation was made by the then Executive Director, Timothy Degraff, to then Chair of the Board, Katherine Beinkafner, that neither site should be considered due to (1) their location away from main roads; (2) their location in the middle of residential areas and (3) proximity to a superfund site. The report was then discussed amongst board members and no action was taken. Subsequently, there was vocal opposition to both sites.

It appears the landfill study proposals have duplicated efforts with regard to the important first step which has already been performed by Hydroquest. In order to be efficient and mindful of fiscal concerns, I would recommend revisiting the scope of work of the landfill study proposals to include a confirmation of the findings of the Hydroquest study already performed. If there is concurrence of the findings, the remainder of the scope of work is moot.

In addition, the scope of work with regard to reclamation of landfills requires the participation from the landfills. I would recommend UCRRA confirm participation from towns willing to engage in reclamation and ask the specific scope of work be for those towns."

At the October meeting, the Board of Directors discussed adjusting the scope of work for the RFP with great consideration of Roppolo's comments. By the November meeting, the updated scope of work had been circulated with the two engineering firms who originally responded to the RFP. The updated scope of work specifically tasks the engineering firm to:

- (1) Review the January 2022 Hydroquest Study to determine the extent of which we concur with the screening filters utilized and whether or not additional filters should have been reviewed.**
- (2) Identify existing landfills within Ulster County and the potential for reclamation or redevelopment of one or more of these facilities.**
- (3) Review and comment on the potential for implementation of a regional landfill facility.**

At the December 2023 Board meeting, Resolution No. 2610, *Approval of Cornerstone Engineering Proposal for Waste Management Strategies for Ulster County*, was presented. Member Egan made a motion to postpone the project until a full time Executive Director is hired to manage the project. The members discussed Roppolo's role and other staff available to get the project started. Board members questioned if delaying the project could increase the quoted project costs. Members discussed the merits of having results from the study readily available for a new Director to review. Board members discussed the timing of public engagement on the project and when it might normally be appropriate, procedurally, for public comment. The members discussed the qualifications of the professionals hired to do the study. They discussed other political factors that might affect the success of the project, informed by events earlier in the year. Board Chairman Ghiorse clarified that the Agency is not committed to the progression of all three tasks in the updated scope of work, and Roppollo confirmed the total price includes a breakdown of pricing per task. The Agency can determine how to proceed with subsequent tasks it deems necessary. Ultimately, the motion was defeated in a 4 to 1 vote (with Egan in favor of postponing).

The Board approved hiring Cornerstone to conduct the Agency's landfill feasibility study in a motion that passed a 4 to 1 vote (with member Egan opposed) at the December 2023 Board Meeting. As outlined in this section, the timeline for this project has been slow to progress despite strong interest by the Agency Board, staff, and community stakeholders to realize the County's longterm final disposal options. The Agency plans to begin work with Cornerstone on the first phase of the study (to review the Hydroquest Study screening filters utilized and whether or not additional filters should have been reviewed) with hopes of evaluating next steps along with a new Executive Director in early 2024.

1.6.3 Municipal Food Waste Hauling Pilot Project

During the last biennial update, several new implementation goals were developed that relate to a Municipal Food Scrap Hauling Pilot Project. The 2022 tasks were:

- Develop concepts and budget for a municipal organics recovery (MOR) pilot project for micro hauling at MRDCs and municipal events.
- Conduct surveys of MRDCs to gauge interests in participation.
- Seek to secure grant funding for the project and begin developing agreements, program tools, and equipment if funded.
- Evaluate the number of containers or bins that will be required for food waste program at Ulster
- Research systems for tote bin cleaning stations as possible addition to Organics Recovery service. Research grant funding.

The following section will provide a comprehensive accounting of circumstances and outcomes surrounding the Agency's activities to launch a municipal food scrap project.

In May of 2022 the NYS Department of Environmental Conservation announced a new grant program that would provide \$2,000,000 (max award \$200,000) to projects in NYS that increase residential food scraps recycling programs. The Agency's Director of Sustainability, Angelina Brandt, developed a grant proposal that would provide towns with free tools to launch and facilitate a residential food scraps collection program at Municipal Recycling Drop Off Centers. The overarching goals of this project were:

- Foster inter-governmental relationships that maximize resource recovery
- Maximize financial savings for municipalities via avoided MSW transport and disposal costs (at 1 ton per week, each Town could save an estimated \$5,688 per year on avoided MSW tipping fees and box pulls).
- Eliminate the logistical obstacles that prevent community-scale composting programs
- Increase diversion of residential food scraps generated in Ulster County
- Compliment the goals of local/state composting laws
- Support the Agency's zero waste goals
- Demonstrate the environmental, economic, and social benefits of composting

Under this project, the Agency would be responsible for securing funding to purchase equipment and educational supplies, which would be provided to participating towns at no cost to them. UCRRA would provide all the necessary materials to collect and transport the food scraps to UCRRA (including enclosed cargo trailer, 35 gallon tote bins, residential kitchen caddys, pop up tent, tables, cones, and other tools for the collection station) and would develop educational materials for residents (brochures, magnets, etc.). UCRRA would send educators for site visits, promotional events, etc. to help launch their program and help train the Town employees, and could provide metrics about the Town's greenhouse gas reduction.

Under this project, the participating Towns would be responsible for staffing the collection at their MRDC during their normal operating hours (suggested streamlining food scrap collection to one day per week) and designate two Drop Off Site Coordinators who would be trained on how to facilitate the program and monitor for contamination using the provided supplies. Towns would be responsible for delivering the collected food scraps to UCRRA once per week using the provided equipment (towing the enclosed trailer). Towns would see a cost savings from paying the food scrap tipping fee of \$20/ton vs. MSW fee of \$110/ton.

The Agency Board held a Zero Waste Committee Meeting on June 16, 2022. This meeting was held virtually through Webex. Brandt gave a presentation about the project proposal. The Committee discussed surveys that had been completed by three Towns in Fall 2021 to gauge interest in composting; the recent efforts by staff to get specifications for the trailers; costs, budget, the grant's criteria for environmental justice sites, what each town would be required to do, and the timeframe.

On July 5th 2022, all 22 municipalities were invited via direct mailing and email notification to attend [an informational meeting](#) about the project. A webinar was held on July 25th 2022. Two additional reminder emails were sent to encourage more Towns to pre-register for the webinar. Municipal leaders were encouraged that *"[Their] participation in the project is urgently needed to strengthen our proposal and secure funding for this important project."* Eleven (11) participants representing 8 different municipalities took part in the webinar (Esopus, Gardiner, Hurley, City of Kingston, Marbletown, Rosendale, Saugerties, Woodstock) where a high level overview of the project was presented. Interested partners were asked to complete a worksheet and submit a letter of support by August 31st, 2022. Following the webinar, a follow-up email with the presentation slides, the draft support letter, and a project checklist were sent to all Towns, Villages, and Cities regardless of if they attended the webinar. Unfortunately, the other thirteen municipalities did not respond to these invitations to engage with the project.

Over the next few weeks, several of the webinar attendees corresponded with Agency staff about the project. They presented a range of questions and concerns about managing a new food scrap drop off at their transfer stations, including; low staffing levels at the transfer station; inability to properly monitor the bins for contaminants; concerns that food would attract bears; uncertainty about coordinating hauling logistics; requesting more information about potential hygiene issues; the timeline was too restrictive; and other concerns.

Director of Sustainability, Angelina Brandt, responded to emails, phone calls, and additional meetings with key talking points; she recommended promoting the collection as one day per week to minimize impact on staffing; she reassured that the Recycling Outreach Team would help train and provide educational media about contamination; she addressed concerns about bears by reiterating the enclosed bins could be kept inside of the locked trailer or ideally removed offsite at the end of the collection day; she suggested Town vehicles that could readily attach to a ball mount hitch; and in some cases staff also provided a spreadsheet detailing the exact mileage, hours, and staff cost required to transfer the food to UCRRA. The deadline for the call for support letters was subsequently extended to December 31st to allow more time to follow up on clarifying questions and conduct additional outreach to the Towns who hadn't responded.

In October 2022, Brandt briefed the new incoming Executive Director, Ollivier, about the project challenges and the lack of interest from the Towns. Following a meeting, a list of talking points, contact lists, and synapses of the project was shared with Ollivier who agreed to follow up with specific Towns that showed initial interest. It was generally understood that Ollivier would try to get the project onto the agenda for the next Town Supervisors Association meeting, though staff never got an update on this. Ollivier eventually referred Brandt to a County Legislator (Greene) who discussed the project with the Ulster County Climate Smart Committee in hopes of stirring more interest in the project. The Committee was provided with the presentation slides, the letter of support, and the checklist.

Ultimately, there was only one Town (Hurley) that wrote a letter of support and demonstrated commitment to implement the program if the Agency were awarded a grant. Due to the extremely competitive nature of the grant opportunity, staff determined one out of twenty one towns was not an appealing project proposal, that more letters of support were needed to justify the purchases, and the grant was not submitted.

Throughout this process, the staff recognizes the perceived challenges for the Towns to implement composting services. The Recycling Outreach Team aspires to develop new strategies and program areas to support MRDC composting in the future, but will do so with input and support from a new Executive Director once one is hired.

1.6.4 Miscellaneous Projects Initiated By Ollivier

In 2022, as the Agency's incoming (now former) Executive Director, Greg Ollivier was tasked with several major initiatives guided by the Board's directives to find ways of maximizing waste diversion. **The following section will provide an overview of initiatives that were started but were left undeveloped or incomplete by Ollivier, due to various circumstances.**

Mattress Recycling

Ollivier was tasked with researching and presenting plans for implementing a new mattress recycling initiative, a high priority from some Board members.

In March 2023, Ollivier met with representatives from NYSDEC to learn what would be necessary to change the Agency's permit to allow for a mattress recycling program. At that time, Ollivier believed it would take "anywhere from 3 weeks to 3 months" for DEC to review the plans and any changes. Ollivier met with Christine Kiourtis from Renewable Recycling (NYC) to discuss mattress recycling. Ollivier advised the Board that the preliminary estimate to recycle mattresses would be double what the Agency currently charges, and suggested the rate increase to \$10-12 per mattress to cover the cost. At the March Board Meeting, Ollivier acknowledged that the high cost and the distance to NYC would be the two major negative factors to overcome. In April, Ollivier worked with the Agency's engineering consultant to develop the necessary paperwork and draft an update to the Agency's Operation Plan, which was submitted to NYSDEC in May.

In July, the Agency received technical questions from NYSDEC requesting more detail about the project and impact on operations. The consultant worked with Ollivier on responses to the questions. At the July meeting, Ollivier presented more detail and context about the mattress recycling plans. He explained that the company Renewable Recycling (NYC) was agreeable to provide a 53 foot van, and once full, would swap it out with a new one. Ollivier claimed each vehicle could fit 150-160 mattresses, and although that is the amount the Agency generates in about one week, the company was only committed to picking it up once per month. Therefore, Ollivier was coordinating the project as a short term, 90-day, "pilot" project. He advised that if the company becomes comfortable with the arrangement after a 90 day trial, they may evaluate committing more resources. The distance to NYC appeared to be a key issue. Some Board members expressed disappointment that this plan was much smaller in scope, but encouraged Ollivier to proceed.

The Agency welcomed two new Board Members (Obijiski, Gilmour) at the August 25th 2023 Board Meeting. At that time, Ollivier did not have an update on the status of the NYSDEC's review of the submitted responses. As discussed in Section 1.6.1 of this document, Ollivier was relieved of his duties following this August Board meeting. Then, in October, the Board hired an Interim Executive Director, Anna Ropollo, who was primarily tasked with helping lead the search for a permanent Executive Director and helping guide the Agency's business decisions while the search is conducted.

Ropollo analyzed the information collected by Ollivier and spoke directly with the mattress recycler. At the November 2023 Board Meeting, she advised Board Members regarding true costs, number of mattresses that could fit into the trailer, alternative ways to reclaim mattresses, relevant state legislation pertaining to mattress Extended Producer Responsibility (EPR), how the mattresses are recycled, and the environmental impacts. Ropollo distributed a packet to the Board regarding the costs associated with mattress recycling, carbon footprint, proposed resolution for New York State and a spreadsheet with the information on tonnage, trucks, mileage, and cost.

Ultimately, Ropollo recommended that the Agency work within the existing EPR framework and proposed legislation regarding mattress recycling in NYS. Throughout this process, the staff recognizes the perceived challenges to implementing a cost effective way of recovering recyclable materials from mattresses. The Agency can take full advantage of the benefits from a statewide mattress product stewardship program in the near future, and will continue to review and discuss with input from a new Executive Director once one is hired.

Shredding of MSW and C&D

At the May 2023 Agency Board meeting, Ollivier introduced the concept of purchasing new equipment to downsize, or shred, municipal solid waste. He proposed that the Agency should investigate shredding incoming waste before loading it onto export trailers. Ollivier believed the benefits would be to maximize the weight in each truck shipment sent to the landfill, which may reduce the overall number of trucks, reducing fuel and emissions and making the Agency more efficient. Ollivier claimed this practice could reduce 100-200 landfill trips per year based on his review of three months of data. He stated that he was working on an opportunity for a company to conduct an equipment demonstration over a two day test period as a proof of concept. Ollivier had also traveled to Long Island to visit an operation where similar shredding equipment was in use to process both MSW and C&D.

Overall, board members agreed that reducing transportation would be beneficial. Ollivier described his project as *“the fastest way I can reduce the amount of trucks to the landfill”* and briefly mentioned other scenarios like compressing trash into bales instead of shredding, or pre-compactors which are more expensive. Board Chair Ghiorse asked if installing a pit scale to weigh the trucks as they are being live loaded would be a cheaper alternative to being more efficient loading trailers. Board member Egan questioned the cost savings of the project. Under Ollivier’s assessment, Egan pointed out that the Agency would only save \$40,000 by reducing 100 trucks to the landfill. With equipment costs of almost one million dollars, she suggested that the Agency would have a payback time of 22 years. Egan continued that the

useful life expectancy of the machine is only 14 years, and according to the company's representative, most machines are replaced after 5 years. Ollivier claimed the investment into this equipment would only be a 5-7 year payback, but didn't have any details available. Egan stated she felt that the focus of the Agency should be on bigger planning items that reduce waste, rather than compacting or shredding the garbage. Board Chairman Ghiorse noted the equipment uses 35 gallons of diesel fuel per hour, which should also be considered as part of the cost analysis. Ollivier was asked to present a cost analysis, which never materialized, and to also collect quotes on installing a pit scale as an alternative, which also never materialized.

Agency staff informed Ollivier of NYSDEC requirements to modify the operations, even for an equipment demonstration. It was understood that Ollivier reached out to NYSDEC with an informal request to allow the shredding demonstration. At the July Board meeting, Ollivier updated that he had corresponded with NYSDEC about some technical questions and is waiting for a response. Board members again requested a cost analysis, but Ollivier held that he couldn't provide costs until the demonstration was complete in order to evaluate the machine's performance.

As discussed in Section 1.6.1 of this document, Olivier was subsequently relieved of his duties as Executive Director in August 2023. Presently, the Board is no longer actively pursuing this project or an equipment demonstration.

Compactors for Town Transfer Stations

In March 2023, Ollivier was tasked with presenting a menu of services that could be provided to Town Supervisors with options to enhance their waste and recycling programs, a high priority from Board members. Ollivier gave examples of new signs, handouts, and that a couple of towns had asked him for compactors. He stated that if he planned to install compactors at these facilities, there would be a progression to roll this out, purchasing 2 or 3 compactors per year, and reviewing cost analysis to dictate which Towns he would install them first.

Board members discussed the concept of the compactors, if they were worth investing in, how or if they would lower the Agency's operating costs, and if the County could provide funds to support this municipal project. Other members questioned how to prioritize which Towns would get the compactors and how this affected the Board's financial planning. Other members felt the compactors were a simple idea the Agency could address fairly easily, but pressed for more substantial diversion plans, and asked for bigger vision and more ideas to reduce waste. Member Kacandas recalled that the Board wanted funding available for the incoming Director's new ideas during the last budget cycle, so the costs may already be

represented in the budget. Kacandas also recalled that he had previously suggested the Agency look into compactors for town cardboard.

Ollivier attended Town Supervisors Association meetings in April and May and expressed to the Board that there was enthusiasm by certain Towns. By the May 2023 Board Meeting, two Board members resigned (Section 1.6.1). Ollivier presented that he had collected quotes and believed the Agency could purchase five or six compactors in 2023. He stated he was considering details and specs for how they would fit at certain town sites he was looking at. Board members questioned if compactors should be proposed to all 19 town transfer stations and be awarded via a proposal process in order to distribute the compactors more competitively. Ollivier stated that his approach analyzed waste volumes to find the biggest impact from a cost and net carbon reduction aspect. Additional questions emerged regarding responsibilities for who would repair, maintain, and operate the machinery. When asked for details about how many transport trips would be reduced by the compactors, Ollivier described different scenarios of a 2:1, 3:1, and 4:1 savings depending on the material, cardboard or municipal solid waste. Board Members asked for more details of who would stand to see the highest savings, the Towns or the Agency, due to reduced pull charges.

Agency staff also presented information to Ollivier and discussed questions about the cost benefit analysis, his town selection process, and the history of the use of compactors at several Town Transfer Stations dating back to 1993. Staff presented the context with which some compactors had been removed from these sites in recent years, per directives to management by the Agency Board of Directors, due to basic maintenance neglect, abuse of Agency equipment, and the unlawful collection of commercial C&D. Staff also cautioned about compacting regulated recyclable materials like plastic, glass, and metal containers and that this would significantly impact the quality and the value of recyclable commodities, which is not advantageous given the present volatility of recycling markets. Ollivier asserted compacting recyclables would be a normal practice as part of his plan.

At the July 2023 Board Meeting, Resolution No. 2593, *Authorizing and Approving the Purchase of Compactors and Containers*, was tabled. Some Board Members felt it would not be appropriate to authorize a large purchase (\$350,000) without a full complement of Board members (as 2 members had recently resigned). Some members also vocalized that further discussion on an overall strategy for where, how, and why the compactors and containers will be deployed were needed. Members again suggested presenting the County with a list of projects, like the compactors for towns, and gauge if the County could finance any of these projects. Ultimately, there was little further discussion of the compactors after Ollivier separated from the Agency in August 2023.

Collection & Transportation of Construction Debris

In May 2023, after attending some Town Supervisors Association meetings, Ollivier informed the Board of Directors that he was interacting with NYSDEC to learn what would be necessary to get the appropriate permits for the Agency to be able to haul C&D from the Town Transfer Stations. He had previously been tasked with presenting options to enhance town waste and recycling programs, a high priority from Board members. Notably, the Agency does not have separate roll off containers for C&D staged at Town Transfer Stations.

Ollivier wanted to coordinate with a private company (Taylor) to process the C&D collected at the Agency, and was seeking participation from the towns to separate it from general MSW at their residential transfer stations. He suggested a scenario where the private company would provide the collection trailers, the Agency would collect and transport it to consolidate it, and the C&D would be directed and processed at the private company's facility. Board members questioned the charges and fees for these services. Ollivier presented the program "wouldn't involve a lot of capital outlay." Ollivier also stated that he had generally discussed the concept of flow control for C&D with some local legislators who were starting to consider this policy.

Agency staff also presented information and discussed questions directly to Ollivier about hauling C&D from the Towns. Staff described the history of source-separating C&D at town transfer stations and the implications. Staff cautioned that the current regulatory framework and permit authorizations were not favorable for the program he was describing.

As discussed in Section 1.6.1 of this document, Ollivier separated from the Agency in August 2023. Presently, Board discussion on this approach to managing C&D, and other options, may be discussed and considered with the next incoming Executive Director.

1.7 Implementation Schedule Status

The following tables track progress on meeting plan milestones and provide a detailed review of how the tasks were completed.

1.7.1 Year 3 - 2022 Implementation Schedule

Figure 18. Status of adherence to the implementation schedule with appropriate detail for year 2022.

2022 Implementation Plan and Schedule		
Law and Legislation		
NYS Food Donation and Food Scrap Recycling Act to be put into effect	COMPLETED	<ul style="list-style-type: none"> • The State law became effective January 1 2022. Agency staff monitored the list of large food scraps generators regulated under the state law; a list was provided by NYSDEC. • The theme "new laws" was an outreach focus topic in January 2022 on UCRRA social media. Educators promoted the NYS Food Scrap Recycling Law and the NYS Ban on Polystyrene. • On June 1, 2022 DEC published the updated list of designated food scraps generators (DFSG) that are required to comply with the State Food Donation & Food Scraps Recycling law for the 2023 calendar year. Compared to the DFSG list for 2022, the 2023 list includes 231 additional businesses or institutions as designated food scraps generators subject to the requirements of the law (statewide).
Provide education about source separation requirements and consequences of failure to comply; hauler notices to customers, website	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team, Director of Operations & Compliance, and the Agency's part time Environmental Compliance Officer worked collaboratively to respond to recycling concerns in the absence of a dedicated full time Recycling Compliance Officer in 2022. • Former Executive Director Greg Ollivier, Agency Board members, and Agency staff reviewed the Ulster County Mandatory Source Separation Law at the November 2022 Regular Board meeting and consulted with Agency Counsel on what the Agency can legally do to become more effective at enforcement strategies in the future. The County of Ulster appointed a new Administrative Law Judge to work with the Agency on compliance issues. • In Fall 2022 the Agency began randomly inspecting MSW loads for regulated recyclables (to evaluate all permitted hauling companies) and created a tracking form to gather relevant information about violations. • In December 2022, Ollivier planned a meeting for all permitted waste haulers regarding hauler application renewals and recycling enforcement steps. The haulers were notified about the meeting in December 2022, and the meetings were held at the Administrative Offices on January 12th 2023 (9-10am) and January 13th (3-4pm) 2023 with the Agency Attorney. • The Recycling Outreach Team promotes awareness of recycling compliance at various public speaking events, presentations, on facility tours, and assisted

		<p>with documenting concerns and questions via a Recycling Hotline.</p> <ul style="list-style-type: none"> • The Agency website features several pages where mandatory recycling is discussed. The public may also contact UCRRA anonymously through the website to report recycling compliance issues. • Other enforcement practices (discussed in Section 1.5 of the biennial update) also identify and document potential compliance issues for further investigation.
Provide education / assistance regarding expectations and enforcement steps to waste haulers	COMPLETED	<ul style="list-style-type: none"> • See relevant notes in the comment box above. <p>Additionally;</p> <ul style="list-style-type: none"> • On December 14th 2022 Agency staff participated in a tour of the Republic Services single stream recycling MRF in Beacon NY, with some interest in evaluating the flow of recyclable materials to this facility.
Provide updated laws and regulations to all staff members	COMPLETED	<ul style="list-style-type: none"> • Agency staff communicates with the Board of Directors, UCRRA staff, and community members, to inform of statewide or regional legislation, policies, or emerging topics of interest, such as Extended Producer Responsibility, updates to Electronics Recycling & Reuse Act, updates to the NY Food Scrap Reduction & Recycling Act, etc.
Post new laws and regulations to website	COMPLETED	<ul style="list-style-type: none"> • Staff maintains a webpage dedicated to all applicable laws, accessible online at https://ucrra.org/about-us/laws/ and updates the webpage as needed.
Actively enforce laws and regulations through education and fines as needed	COMPLETED	<ul style="list-style-type: none"> • See relevant notes in the previous four commentary boxes above <p>Additionally:</p> <ul style="list-style-type: none"> • The Agency has a policy regarding recycling contamination and enforces education or waste surcharges as necessary. • Staff records contamination with photographs when necessary, to aid in documentation and for educational purposes. • The Agency has a tarp policy requiring all haulers to have loads covered with a secure tarp, and the Agency enforces education and waste surcharges as necessary. • Refer to Section 1.5 (Recycling Compliance Activities) for more information.
Inspection of waste hauler collection practices and enforcement	COMPLETED	<ul style="list-style-type: none"> • The Agency permits haulers through the Agency's flow control licensing application, and conducts an annual survey of all permitted haulers (Annual Recycling Report) which enables UCRRA to evaluate hauler practices. • Refer to Section 1.5 (Recycling Compliance Activities) for more information. • In Fall 2022 the Agency began randomly inspecting MSW loads for regulated recyclables (to evaluate all permitted hauling companies) and created a tracking form to gather relevant information about violations. • On December 14th 2022 Agency staff participated in a tour of the Republic Services single stream recycling MRF in Beacon NY, with some interest in evaluating the flow of recyclable materials to this facility.

Ulster County Compost Law ticks down to >1 tpw. Maintain contact with County Departments to monitor implementation of the law.	COMPLETED	<ul style="list-style-type: none"> • The period January 1, 2022, through December 31, 2022, the law regulated generators producing greater than 1 ton of food scraps per week. For the 2022 regulation year, 28 entities were identified that met the definition of large food scraps generator per the Law. Agency staff monitored the list of large food scraps generators regulated under the local law, which a list was provided by the Ulster County Department of Environment. Staff added the new contacts to the Annual Recycling Report to maintain communications with the businesses/facilities regulated under the local County law. • On October 7th 2022, the Ulster County Department of Environment updated its list of large food scrap generators regulated under the law. Agency staff met with the Department to review their implementation and outreach strategies for the upcoming year. A total of 81 facilities are currently regulated under the law as of the 2023 regulation year.
Seek a qualified candidate for Recycling Compliance Officer position.	NOT COMPLETED	<ul style="list-style-type: none"> • As discussed in Section 1.6 of the biennial update, there were challenges to implementing some objectives, including Changes in Executive Leadership at the Agency, which delayed the recruitment of a new Compliance Officer throughout 2022. • The Recycling Outreach Team, Director of Operations & Compliance, and the Agency's part time Environmental Compliance Officer worked collaboratively to respond to recycling concerns in the absence of a dedicated full time Recycling Compliance Officer in 2022. • Res. No. 2584 Regarding the Authorization of a Revision to the Compliance Officer Job Description was approved by Agency Board members at the January 26th Regular Board Meeting. • While not completed in 2022, a Recycling Compliance Officer was hired for a period of time in 2023.
Engage with local, regional, and statewide waste and recycling groups, organizations, and councils to learn about best practices emerging concepts in sustainable materials management.	COMPLETED	<p>Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc.</p> <p>Additionally:</p> <ul style="list-style-type: none"> • Former Agency Board Members participated in legislative committees (formal and informal groups) and networked with other county departments to develop strategies on sustainable materials management in 2022. Board member Margot Becker participated in the Ulster County Recycling Oversight Committee. Board Chair Katherine Beinkafner participated in the Ulster County Reuse Innovation Center steering committee. Board member Tom Kacandes participated in the Materials Management Regional Climate Action Strategy (April 13, 2022). • 12/01 a new "Recycling Educator Working Group" convened and included new staff from Ulster, Dutchess, Sullivan, Westchester, Monroe counties. The group set a bimonthly meeting schedule to further network about educational strategies, challenges, and opportunities.
Recyclables		

Review pricing for recyclables market	COMPLETED	<ul style="list-style-type: none"> • Trends in commodities pricing are reviewed on a monthly basis by Agency staff and Board of Directors. • Regional trends in single stream market rates are reviewed annually by Agency staff. • Initiated in 2022, the Agency subscribed to RISI (fast markets) Pulp and Paper Daily News to receive daily notifications regarding global recycling commodities market trends which provides articles, indexes, and news related to domestic and export pricing. • On December 14th 2022 Agency staff participated in a tour of the Republic Services single stream recycling MRF in Beacon NY, with some interest in evaluating the flow of recyclable materials to this facility.
Identify system enhancements to increase recycling rates and/or optimize recycling revenue		<ul style="list-style-type: none"> • The Agency continuously seeks new brokers to find new opportunities

Monitor local and regional development of recycling programs and initiatives	COMPLETED	<ul style="list-style-type: none"> • Agency staff continued to pursue networking opportunities to stay informed about regional developments in sustainable materials management. Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc. Additionally: • The Recycling Outreach Team maintains communications with municipal recycling drop off centers. Staff updated the master list of all MRDCs and requested updated information about the scope of services and additional recycling items accepted at each facility. • Former Agency Board Members participated in legislative committees (formal and informal groups) and networked with other county departments to develop strategies on sustainable materials management in 2022. Board member Margot Becker participated in the Ulster County Recycling Oversight Committee. Board Chair Katherine Beinkafner participated in the Ulster County Reuse Innovation Center steering committee. Board member Tom Kacandes participated in the Materials Management Regional Climate Action Strategy (April 13, 2022). • 12/01 a new "Recycling Educator Working Group " convened and includes new staff from Ulster, Dutchess, Sullivan, Westchester, Monroe counties. The group set a bimonthly meeting schedule to further network about educational strategies, challenges, and opportunities. • On December 14th 2022 Agency staff participated in a tour of the Republic Services single stream recycling MRF in Beacon NY, with some interest in evaluating the flow of recyclable materials to this facility. • The County of Ulster issued an RFP for a feasibility study regarding a Reuse Innovation Center project for Ulster County which is discussed in more detail in Section 3.3 of this document. The Agency continued to monitor the development of this feasibility study project, including providing written comments, hosting tours and meetings for the contractors, Sustainable Hudson Valley.
Data		
Collect tonnages of all materials brought into and shipped from UCRRA	COMPLETED	<ul style="list-style-type: none"> • Best practices are maintained to record every transaction brought in to or shipped out of UCRRA facilities. • Truck scales are properly calibrated on a quarterly basis to ensure accuracy. • Agency employs qualified Weight Masters, certified through Department of Weights and Measures. • Trends in hauler waste and recycling tonnages are reviewed on a monthly basis by Agency staff.

Collect data pertaining to facilities outside of UCRRA	COMPLETED	<ul style="list-style-type: none"> • The 2021 Ulster County Annual Waste & Recycling Report was conducted in 2022 and requested information from over 300 facilities. • Refer to Section 2 (Waste and Recyclables Data) for more information.
Reach out to large generators, including industrial waste generators, within the county on a yearly basis to understand tonnages produced	COMPLETED	<ul style="list-style-type: none"> • The 2021 Ulster County Annual Waste & Recycling Report was conducted and requested information from over 300 facilities, as discussed in Section 2 of this document. • The Agency actively seeks to identify new industries/facilities/contacts that may be added to the contact list to better understand total waste generation in the planning unit. • Refer to Section 2 (Waste and Recyclables Data) for more information.
Continue to collect data on all materials generated in Ulster County that are transported outside of the county	COMPLETED	<ul style="list-style-type: none"> • The 2021 Ulster County Annual Waste & Recycling Report was conducted and requested information from over 300 facilities, including contacts located outside of Ulster County that may receive waste or recyclables that were generated from within Ulster County. The report instructions clearly state that the tonnage provided on the report should relate to Ulster County generated waste only, to the greatest extent that information is available or it can be reasonably estimated. • Refer to Section 2 (Waste and Recyclables Data) for more information.
Submit yearly solid waste and recycling reports to NYSDEC	COMPLETED	<ul style="list-style-type: none"> • All annual reports were completed and submitted to NYS DEC as required.
Use information collected to help establish tipping fees and budget estimates	COMPLETED	<ul style="list-style-type: none"> • The Agency's Director of Finance & Administration presented a draft budget to the Board of Directors in August 2022. • The Board of Directors participated in a special budget workshop on September 22nd 2022 to become familiar with the budget process and elements that affect the tipping fee. • The Board of Directors ultimately approved a +\$5 per ton increase for 2023 at the October 27th 2022 Board meeting. All municipalities were notified of the rate increase.
Finance		
Continue to pay down debt service	COMPLETED	<ul style="list-style-type: none"> • \$1,790,000 debt service paid in 2022.
Apply for grants funding HHW events and educational programs	COMPLETED	<ul style="list-style-type: none"> • The Agency's Director of Sustainability successfully completed an application for the NY HHW state assistance grant, an application for MWRR/MWRC grant in 2022. • The Agency's Director of Sustainability successfully completed quarterly progress reports as required by the MWRR contract. • Refer to Section 1.4.1 of this document for more information.
Evaluate and update capital plan on an annual basis as necessary.	COMPLETED	<ul style="list-style-type: none"> • The Agency's Director of Finance & Administration presented a draft capital plan to the Board of Directors in August 2022. • The Board of Directors approved the 5 year capital plan at the October 27th 2022 Board meeting.
Feasibility Studies		

<p>The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP. The operational review may result in additional staffing needs , improvements, discussions of feasibility studies, etc.</p>	<p>NOT COMPLETED</p>	<ul style="list-style-type: none"> • Refer to section 1.6.1 (Plan Implementation Challenges - Changes in Executive Leadership) and Section 1.6.4 (Misc. Projects Initiated by Ollivier) for more information.
<p>Create GIS Map tools to evaluate landfill siting options and work with Agency Board, NYS DEC, Ulster County Planning Department and Department of the Environment, and other stakeholders to interpret results of the study and implications for future updates to this plan.</p>	<p>COMPLETE</p>	<ul style="list-style-type: none"> • The Agency's original LSWMP concluded that the Agency will conduct a landfill feasibility study and set the implementation goal for the first two years of the plan. In July of 2021, the Agency hired HydroQuest to conduct a GIS Analysis to identify any number of potential sites in Ulster County that conform to NYSDEC landfill siting criteria, are protective of the environment, and are not situated in heavily populated or Environmental Justice Areas. The HydroQuest project involved a stepwise elimination process using a combination of many GIS database tools and rigorous geologic and hydrologic assessments. • The Agency Board of Directors received its DRAFT report from HydroQuest in January 2022, pursuant to its feasibility study agreement. Consequently, there were various public relations efforts, meetings, and other events that followed. • Refer to Section 1.6.2 (Ulster County Landfill Feasibility Study) for more information.
<p>Participate in Stony Brook University Waste Data & Analysis Center Waste Audit</p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • SUNY Stony Brook Waste Audit Analysis Center successfully completed a waste audit study at UCRRA from August 1st - 5th 2022. During that time, more than a dozen samples were sorted and analyzed. The samples represented the diverse sources of wastes including MSW from waste haulers, municipal drop off programs, and municipal curbside collection. Samples of commingled recycling was also sorted and analyzed. • Researchers are compiling results from the first two years of the study and anticipate the report on preliminary findings would become available in 2023. • Refer to Section 3.4 (Stony Brook University Waste Data and Analysis Center) for more information.

Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.	COMPLETED	<ul style="list-style-type: none"> • At the March 24th 2022 Regular Board meeting, guest speaker Kyle Black, District Manager of Seneca Meadows Landfill, presented information to the Board of Directors about the past/present/future state of the Seneca Meadows Landfill. • The Agency held a Zero Waste Committee Meeting on June 16, 2022. Information provided by ByFusion Global, Inc. was briefly discussed by Committee Members (Becker, Beinkafner, Kacandas) and staff. Ultimately, the Committee felt the discussion regarding ByFusion should be put on hold until after a new Executive Director is hired. • At the October 27th 2022 Regular Board meeting, guest speaker Charles Moseley (representing the company WastAway) gave a presentation to the Board of Directors about the alternative MSW processing technology. • On December 14th 2022 Agency staff participated in a tour of the Republic Services single stream recycling MRF in Beacon NY, with some interest in evaluating the flow of recyclable materials to this facility. • Refer to Section 3.1 (Diversion or Waste Processing Technology Selection) for more information.
Facility Upgrades & Improvements		
The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP over the planning period. The operational review may result in additional staffing needs or improvements.	NOT COMPLETED	<ul style="list-style-type: none"> • Refer to section 1.6.1 (Plan Implementation Challenges - Changes in Executive Leadership) and Section 1.6.4 (Misc. Projects Initiated by Ollivier) for more information.
Create succession planning for retiring Administration and Operations staff.	COMPLETED	<ul style="list-style-type: none"> • The Agency's Data Analyst (of 25+ years) retired in April 2022 and a former Scale House Operator transitioned into their role as the Agency's new Data Analyst. Other synergies in their work duties were realized and implemented, aiding the Agency in effective succession planning. • An Agency Scale House Operator transitioned into a new role as Operations Manager in Fall 2022. This change marks the first time that the Agency has had more than one manager in the operations in over 15 years and was a critical component of succession planning.
Monitor performance of the 2020-2021 Compost Facility Improvements, and evaluate impact on odor mitigation.	COMPLETED	<ul style="list-style-type: none"> • Agency staff (compost operators, Directors, etc.) actively monitor the performance of the recent facility improvements, and conduct routine maintenance on new equipment as necessary. • Agency staff record and respond to odor complaints. The public can contact UCRRA by phone or in person to make an odor complaint. In 2022, the Agency added a Contact Us form on the website that was specific to odor complaints. • In August 2022 the Agency sent educational media to all residents and businesses within 1 mile of the UCRRA facility through Every Door Direct

		<p>Mailing (EDDM). The mailing discussed the benefits of using finished compost, the Agency's composting technology, and how to contact UCRRA with an odor complaint.</p> <ul style="list-style-type: none"> • As of December 14 2022, no formal odor complaints have been reported this year.
Per Capital Plan, purchase Transportation Equipment (roll off truck), Heavy Equipment (Waste Handler Loader-Ulster & Refurbish CAT320 Excavator), Buildings & Grounds (mini excavator),	COMPLETED	<ul style="list-style-type: none"> • All equipment referenced was successfully ordered, purchased and ultimately put into service by 2023.
Evaluate and update capital plan on an annual basis	COMPLETED	<ul style="list-style-type: none"> • The Agency's Director of Finance & Administration presented a draft capital plan to the Board of Directors in August 2022. • The Board of Directors approved the 5 year capital plan at the October 27th 2022 Board meeting.
Evaluate greenhouse gas emissions inventory of UCRRA operations	NOT COMPLETED	<ul style="list-style-type: none"> • As discussed in Section 1.6 of the biennial update, there were challenges to implementing some objectives, including Changes in Executive Leadership at the Agency, which influenced how staff prioritized essential projects throughout 2022. As a result, staff did not complete a new greenhouse gas emissions inventory. • The Ulster County Department of the Environment is involved in some evaluative reporting on the Agency's activities as it relates to the County's overall greenhouse gas emissions inventory, and the results are made available to Agency staff.
Organics Diversion		
Promote backyard composting and assist with implementation practices to residents, schools and business as needed	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team (ROT) actively educates the public about the UCRRA's composting operations, home composting, business composting options and food waste reduction strategies. • Refer to Section 1.4 for more details on the Recycling Outreach Team programs (Compost Bin Sale Events, Just Eat It Film Screenings, Compost Awareness Week campaigns, new Compost Demonstration Garden, new printed media about composting, website resources, SUNY Ulster video project etc.)

Monitor local and regional developments of organics recovery programs and initiatives	COMPLETED	<p>Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc.</p> <p>Additionally:</p> <ul style="list-style-type: none"> • Agency staff participate in the NYS Organics Council, a committee of NYSAR3, to learn about organics recycling projects statewide. • Agency staff is actively aware of organics recycling projects being developed in Sullivan, Orange, and Dutchess Counties and has collaborated through a number of ways to support the development of those projects. • The ROT maintains a list of local food scrap drop off sites available to the public at https://ucrra.org/waste-recycling/food-waste/find-a-drop-off-spot/ • Staff attend conferences, trade shows, and participate in committees to stay connected with other regional/state developments.
Maintain memberships with USCC and STA	COMPLETED	<ul style="list-style-type: none"> • In July 2022, the Agency renewed membership with the USCC for the 9th year in a row. • The Agency continues to comply with all program rules and meets the standards and specifications of the Seal of Testing Assurance Certified Compost Program. • Quarterly compost testing was completed in March, June, September, and December of 2022. Compost Technical Data Sheets were added to the Agency website https://ucrra.org/compost-for-sale/compost-test-results/
Reach out to waste generators to inform them of the NYS Food Donation and Food Scrap Recycling Act requirements, encourage reduction and reuse of food scraps, i.e.	COMPLETED	<ul style="list-style-type: none"> • On June 1, 2022 DEC published the updated list of designated food scraps generators (DFSG) that are required to comply with the Food Donation & Food Scraps Recycling law for the 2023 calendar year. Compared to the DFSG list for 2022, the 2023 list includes 231 additional businesses or institutions as designated food scraps generators subject to the requirements of the law (statewide). • On October 7th 2022, the Ulster County Department of Environment updated its list of large food scrap generators regulated under the law. Agency staff met with the Department to review their implementation and outreach strategies for the upcoming year. A total of 81 facilities are currently regulated under the law as of the 2023 regulation year. • Notices (outreach to large generators) is initiated by the Ulster County Department of the Environment, following which these facilities may or may not contact UCRRA directly to learn more about composting options. The Recycling Outreach Team provides educational services regarding all local composting options, as well as onboarding and consultation for the Agency's Partners in Composting Program. <p>•Refer to Section 3.6 (Status of Organics Recycling Laws) for more information</p>
Evaluate success of bagged compost material	NOT COMPLETED	<ul style="list-style-type: none"> • As discussed in Section 1.6 of the biennial update, there were challenges to implementing some objectives. As a result, staff did not officially launch the bagged compost operation during 2022, though it was officially launched in April 2023. During 2022, the staff made meaningful progress on this task. Conception, design, and troubleshooting of the ecommerce platform for bagged compost sales occurred during 2022 and the store went live in March

		2023, as discussed in Section 1.3.2. • Refer to Section 1.3.2 (Bagged Compost Sales) for more information.
Install composting demonstration site for hands-on training	COMPLETED	• The new home composting demonstration garden was completed in May 2022 and started hosting visitors during Compost Awareness Week 2022. • Refer to Section 1.4 for more details on the Recycling Outreach Team programs
Evaluate the number of containers or bins that will be required for food waste program at Ulster	NOT COMPLETED	• This task was related to the Municipal Food Scrap Hauling Pilot Project. Refer to Section 1.6.3 (Municipal Food Waste Hauling Pilot Project) for more details.
Continue to explore options to increase diversion of organics from landfilling	COMPLETED	• As mentioned throughout this document, staff actively attend conferences, trade shows, and participate in committees to stay informed about best practices and strategies to increase composting and organics diversion. • The Recycling Outreach Team developed an organics recycling project proposal discussed in Section 1.6.3 (Municipal Food Waste Hauling Pilot Project) • The Agency completed a significant compost facility expansion in 2021 with intent on expanding composting capacity as discussed in Section 1.3.3 (Organics Recovery Facility Expansion) • Agency staff coordinated presentations to the Board of Directors about the alternative MSW processing technologies as discussed in Section 3.1 (Diversion or Waste Processing Technology Selection)
Research systems for tote bin cleaning stations as possible addition to Organics Recovery service. Research grant funding.	NOT COMPLETED	• Preliminary discussions among staff ultimately deemed this project not currently feasible due to potential leachate containment challenges, so a tote bin cleaning station was not pursued but should be further evaluated in the future. • This task was related to the Municipal Food Scrap Hauling Pilot Project. Refer to Section 1.6.3 (Municipal Food Waste Hauling Pilot Project) for more details.
Develop concepts and budget for a municipal organics recovery (MOR) pilot project for micro-hauling at MRDCs and municipal events. Conduct surveys of MRDCs to gauge interest in participation. Seek to secure grant funding for the project and begin developing agreements, program tools, and equipment if funded.	NOT COMPLETED	• This task was related to the Municipal Food Scrap Hauling Pilot Project. The Recycling Outreach Team developed concepts, preliminary budget, conducted surveys, held outreach presentations and other outreach communications to garner support and interest from local Towns, but was ultimately unsuccessful at getting buy-in to move forward with this project. • Refer to Section 1.6.3 (Municipal Food Waste Hauling Pilot Project) for more details.

Research and implement technology needed for a Compost Facility weather station. Use data to enhance Compost Facility odor mitigation strategies.	NOT COMPLETED	<ul style="list-style-type: none"> • The Agency became aware of a brand of weather station in use locally. Director of Finance met with a vendor (Graylocks) in Fall 2022 to discuss the equipment, how to extract and maintain the data collected, issues around vector management, etc. and it became apparent that further research was necessary.
Education and Outreach		
Participation in regional conferences and trainings to obtain information on evolving solid waste management technology and practices, including recycling and composting	COMPLETED	<p>Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc. Additionally:</p>
Implement and evaluate public communications through print media advertising, social media, newsletters, flyers, and radio public service announcements	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful in addressing this task in 2022. • Refer to Section 1.4.7 for more details on social media and public advertising. • Refer to Section 1.4.8 for more details on New Agency Publications and Media.
Annual review of website, flyers, brochures, etc. as needed	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful at updating Agency media in 2022. • Refer to Section 1.4.8 for more details on website and printed media.
Measure effectiveness of education programs	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team (ROT) routinely solicits feedback from all program participants through the use of class exit surveys. • In 2022, the ROT solicited feedback from local elected officials in a Media Relations Survey, and used survey results to inform marketing strategies. • The ROT routinely collects program tracking data on the total number of events, tours, classes, adults, youth, hours, phone calls, social media metrics, and other relevant metrics, and presents this data to the Board of Directors on a monthly basis. In December 2022 the Recycling Outreach Team conducted it's annual analysis of year-end program tracking metrics. • These metrics are discussed throughout Section 1.4 of this document.
Actively engage the community to be involved with recycling and waste programs	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful in addressing this task in 2022. • Refer to Section 1.4 for more details on the Recycling Outreach Team programs.

Targeted outreach and community engagement efforts to local public schools	COMPLETED	<ul style="list-style-type: none"> • Refer to Section 1.4.2 for a list of classes, and Section 1.4.3 for a list of tours, as it relates to school engagement. • The ROT maintains a school program tracker to monitor engagement with school officials. • 04/22/22 The ROT circulated a special newsletter about recycling programs and UCRRA services. The newsletter was distributed to all environmental clubs at SUNY Ulster and SUNY New Paltz. • By request, the ROT mailed dozens of kits to local teachers and faculty members across various School Districts in 2022. • On March 15th 2022 the ROT met with students and teacher from Bennett Elementary School (Onteora Central School District) to interview them about the TREX film Plastic recycling challenge at the school. The ROT developed a Community Spotlight Blog from the resulting meetings and interviews to highlight the school recycling program. • In November of 2022, the ROT announced a new program geared toward Ulster County Schools; the Ulster County Recycling Ranger program, which is currently still in development.
Maintain communication with all schools regarding grant information, available programs, and resource material	COMPLETED	<ul style="list-style-type: none"> • See notes above, additionally; • The ROT notified schools about the NYSAR3 Green School Grant Program and the NYSAR3 Recycling Poster Contest in 2022 when applications became available. • Refer to Section 1.4.2 for a list of classes, and Section 1.4.3 for a list of tours, as it relates to school engagement.
Provide tours and hands-on learning experiences to the public	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful in addressing this task in 2022. • The Agency standard tour safety briefing was reviewed and updated in 2022. • Refer to Section 1.4.3 for a list of tours
Complete educational signs and displays for the UCRRA Sustainable Living Center (co-located with Compost Bagging Facility). Launch opening of the Education Center for use in facility tours, educational classes, hands on workshops, etc.	NOT COMPLETED	<ul style="list-style-type: none"> • As discussed in Section 1.6 of the biennial update, there were challenges to implementing some objectives. As a result, staff did not officially launch the bagged compost operation during 2022, though it was officially launched in April 2023., as discussed in Section 1.3.2. Recycling Outreach Team's directives adapted to new Executive Leadership, which emphasized growing the new volunteer program, having a greater presence at local schools, launching a new festival bin rental program, and other initiatives that lead to this task becoming a low priority in 2022-2023. Work on this task will continue in 2024-2025.
Launch grand opening of UCRRA Home Composting Demonstration Garden for use in facility tours, educational classes, hands on workshops, etc.	COMPLETED	<ul style="list-style-type: none"> • May 2022 - Educators hosted a soft launch of the Home Composting Demonstration Garden during the Spring Compost Bin & Rain Barrel Sale. • Visiting tour groups took advantage of the garden space during summer 2022 and has been in service in use of ROT programming since the launch (hosted visitors on 10/11/22).

Create UCRRA video series to facilitate virtual tours and improve community literacy about UCRRA programs and services.	COMPLETED	<ul style="list-style-type: none"> • In March of 2022, the Recycling Outreach Team (ROT) partnered with SUNY Ulster County Community College Associate Professor of Art Sean Nixon to work with their design class on a video of UCRRA facilities. The ROT attended several planning and development meetings with the design students throughout the Spring Semester to work on the video project. The 3 minute video was added to UCRRA's Youtube channel, website, and became a hallmark of educational programs and tours. • The ROT also developed a 30 sec digital advertising video that aired February-March 2022. The ad is also featured on the Agency's Youtube channel. • The ROT developed new videos using Instagram Reels, to offer more engaging educational content on social media. <p>For more details, refer to Section 1.4.7</p>
Launch Library Display Initiative to allow community centers to borrow educational installations about program themes and messages.	COMPLETED	<ul style="list-style-type: none"> • In July 2022 - the "Oceans of Possibilities" display was created. The Town of Gardiner Public Library installed the display throughout the month of July. • In September 2022- a Recycling Education display was developed for the Town of Wallkill Public Library and was installed from mid-September to mid-November.
(2022) Paint Stewardship program (PaintCare NY) anticipated to launch May 2022. Expand Agency's Household Hazardous Waste collection program to include latex paint and other acceptable architectural coatings. Refine communications about the HHW program as necessary to accommodate the Paint Care program.	COMPLETED	<ul style="list-style-type: none"> • The Agency hosted four HHW events in 2022, three of which were Paint Care programs. • A memo about the Agency's HHW program and the new Paint Care NY program was sent to all Town Supervisors and Mayors on June 9th 2022. • The Agency's webpages were updated to include resources about the additional Paint Care sites that were established. • The Agency's HHW flier was updated to include paint care information. • Refer to Section 1.3.5 (Paint Care NY) for more details.
Continue to ship MSW and C&D via long haul trailers to Seneca Meadows Landfill (assumed through 2024)	COMPLETED	<ul style="list-style-type: none"> • Per contracts with transport and disposal vendors, the Agency was successful at ensuring the final proper disposal of MSW throughout 2022.
Technology Assessment		
Continue to evaluate different and emerging technologies for waste management	COMPLETED	<ul style="list-style-type: none"> • Refer to Section 3.1 (Diversion or Waste Processing Technology Selection) for more information

Ongoing regionalization update and review of nearby counties	COMPLETED	<ul style="list-style-type: none"> • Agency staff participates in the Hudson Valley Regional Council - Materials Management working group, which is a network of Region 3 counties and solid waste planning unit members. The group meets on a quarterly basis to discuss development of projects, challenges, and opportunities. Recycling Outreach Team regularly attended and engaged in quarterly meetings and routine discussions with Recycling Coordinators in neighboring Counties. • Note: Executive Director (Ollivier) met with Dutchess County in January 2023 and Sullivan County in March 2023. • Note: In 2023 new Board members requested background on the regionalization study previously commissioned by the Agency in 2019 (GUS Feasibility Study). The Agency is interested in an ongoing discussion about the possibilities of a regional approach to sustainable materials management.
Participate in the Hudson Valley Regional Council Materials Management working group and maintain communication with neighboring County waste and recycling departments and Authorities to stay apprised of local tipping fee rates, the development of new facilities, innovative recycling programming, and regional waste-sustainability efforts.	COMPLETED	<ul style="list-style-type: none"> • Recycling Outreach Team staff attended a Hudson Valley Regional Council meetings on March 2nd 2022 and October 5th 2022 • In December of 2022, The HVRC members created a Google folder for Counties to upload and share tipping fee rates for various wastes and recyclables • Board Member Tom Kacandes participated in the HVRC Regional Sustainability Coalition's Regional Climate Action Strategy - Materials Management section. A meeting was held on April 13, 2022 • 12/01 a new "Recycling Educator Working Group" convened and includes new staff from Ulster, Dutchess, Sullivan, Westchester, Monroe counties. The group set a bimonthly meeting schedule to further network about educational strategies, challenges, and opportunities.

1.7.2 Year 4 - 2023 Implementation Schedule

Figure 19. Status of adherence to the implementation schedule with appropriate detail for year 2023.

2023 Implementation Plan and Schedule		
Law and Legislation		
Provide education about source separation requirements and consequences of failure to comply; hauler notices to customers, website	COMPLETED	<ul style="list-style-type: none"> • At the January 26th 2023 Regular Board Meeting, the Board of Directors passed a Resolution. No. 2584 Regarding the Authorization of a Revision to the Compliance Officer Job Description. • The Recycling Outreach Team, Director of Operations & Compliance, and the Agency's part time Environmental Compliance Officer worked collaboratively to respond to recycling concerns in the absence of a dedicated full time Recycling Compliance Officer, until one was hired in April 2023. • The Agency employed a Recycling Compliance Officer for a period of six months in 2023. • The Recycling Outreach Team promotes awareness of recycling compliance at various public speaking events, presentations, on facility tours, and assists with documenting concerns and questions via a Recycling Hotline. • The Agency website features several pages where mandatory recycling is discussed. The public may also contact UCRRA anonymously through the website to report recycling compliance issues. • Refer to Section 1.5 (Recycling Compliance Activities) for more information.
Provide education / assistance regarding expectations and enforcement steps to waste haulers	COMPLETED	<p>See comments above. Additionally:</p> <ul style="list-style-type: none"> • Former Executive Director Ollivier held at the Administrative Offices on January 12th 2023 (9-10am) and January 13th (3-4pm) 2023 with the Agency Attorney to discuss hauler application renewals and recycling enforcement practices. • The Agency implemented MSW inspections for regulated recyclables to evaluate and document permitted hauler compliance. • Refer to Section 1.5 (Recycling Compliance Activities) for more information.
Provide updated laws and regulations to all staff members	COMPLETED	<ul style="list-style-type: none"> • Agency staff communicates with the Board of Directors, UCRRA staff, and community members, to inform of statewide or regional legislation, policies, or emerging topics of interest, such as Extended Producer Responsibility, updates to Electronics Recycling & Reuse Act, updates to the NY Food Scrap Reduction & Recycling Act, etc.
Post new laws and regulations to website	COMPLETED	<ul style="list-style-type: none"> • Staff maintains a webpage dedicated to all applicable laws, accessible online at https://ucrra.org/about-us/laws/ and updates the webpage as needed.

Actively enforce laws and regulations through education and fines as needed	COMPLETED	<ul style="list-style-type: none"> • See relevant notes in the previous four commentary boxes above Additionally: • The Agency has a policy regarding recycling contamination and enforces education or waste surcharges as necessary. • Staff records contamination with photographs when necessary, to aid in documentation and for educational purposes. • The Agency has a tarp policy requiring all haulers to have loads covered with a secure tarp, and the Agency enforces education and waste surcharges as necessary. • Refer to Section 1.5 (Recycling Compliance Activities) for more information.
Inspection of waste hauler collection practices and enforcement	COMPLETED	<ul style="list-style-type: none"> • The Agency permits haulers through the Agency's flow control licensing application, and conducts an annual survey of all permitted haulers (Annual Recycling Report) which enables UCRRA to evaluate hauler practices. These activities were completed in 2023. • The Agency implemented MSW inspections for regulated recyclables to evaluate and document permitted hauler compliance. • Refer to Section 1.5 (Recycling Compliance Activities) for more information.
Ulster County Compost Law ticks down to >0.75 tpw January 1st. Maintain contact with County Departments to monitor implementation of the law.	COMPLETED	<ul style="list-style-type: none"> • The period January 1, 2023, through December 31, 2023, the law regulated generators producing greater than 0.75 tons of food scraps per week. For the 2023 regulation year, 56 entities were identified that met the definition of large food scraps generator per the Law. Agency staff monitored the list of large food scraps generators regulated under the local law, which a list was provided by the Ulster County Department of Environment. • In September 2023, regulated Large Food Scraps Generators were notified of status by the County. An updated list of regulated generators published on the County's webpage. There were 44 new businesses that will be regulated in 2024, in addition to the 56 previously regulated establishments. • By November 30, 2023, Waiver or Dispute of Status applications (if applicable) were due to the County. • Staff added the new contacts to the Annual Recycling Report to maintain communications with the businesses/facilities regulated under the local County law. • More information about the Composting Laws can be found in Section 1.3.3 of the biennial update.
Seek a qualified candidate for the Recycling Compliance Officer position.	COMPLETED	<ul style="list-style-type: none"> • At the January 26th 2023 Regular Board Meeting, the Board of Directors passed a Resolution. No. 2584 Regarding the Authorization of a Revision to the Compliance Officer Job Description. • The Recycling Outreach Team, Director of Operations & Compliance, and the Agency's part time Environmental Compliance Officer worked collaboratively to respond to recycling concerns in the absence of a dedicated full time Recycling Compliance Officer, until one was hired in April 2023. • The Agency employed a Recycling Compliance Officer for a period of six months in 2023.

		<ul style="list-style-type: none"> • Board, staff, and County stakeholders have discussed ways of reforming recycling enforcement practices throughout 2023, and will seek input from the incoming new Executive Director. • Presently, the position remains vacant. • Refer to Section 1.5.3 (Recycling Enforcement) for more information.
Engage with local, regional, and statewide waste and recycling groups, organizations, and councils to learn about best practices emerging concepts in sustainable materials management.	COMPLETED	<p>Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc.</p> <p>Additionally:</p> <ul style="list-style-type: none"> • Former Agency Board Members participated in legislative committees (formal and informal groups) and networked with other county departments to develop strategies on sustainable materials management in 2022. Board member Margot Becker participated in the Ulster County Recycling Oversight Committee. Board Chair Katherine Beinkafner participated in the Ulster County Reuse Innovation Center steering committee. Board member Tom Kacandes participated in the Materials Management Regional Climate Action Strategy (April 13, 2022). • 12/01 a new "Recycling Educator Working Group" convened and included new staff from Ulster, Dutchess, Sullivan, Westchester, Monroe counties. The group set a bimonthly meeting schedule to further network about educational strategies, challenges, and opportunities. • Agency Board Members participated in legislative committees (formal and informal groups) and networked with other county departments to develop strategies on sustainable materials management in 2023. Board member Donna Egan participated in the Ulster County Recycling Oversight Committee in 2023. Various Board Members participated in the Ulster County Reuse Innovation Center (stakeholder sessions) at varying levels of engagement.
Recyclables		
Review pricing for recyclables market	COMPLETED	<ul style="list-style-type: none"> • Trends in commodities pricing are reviewed on a monthly basis by Agency staff and Board of Directors. • Regional trends in single stream market rates are reviewed annually by Agency staff. • Initiated in 2022, the Agency subscribed to RISI (fast markets) Pulp and Paper Daily News to receive daily notifications regarding global recycling commodities market trends which provides articles, indexes, and news related to domestic and export pricing.

<p>Identify system enhancements to increase recycling rates and/or optimize recycling revenue</p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • The MRF operations were reviewed and certain areas were improved in 2023. • MRF overtime was reduced by 44% from the prior year. • MRF related costs were reduced by 6% during inflation. • Safety improvements were identified and implemented via enhanced lighting and new cameras in areas that were not previously covered. • The former Executive Director directed staff to find additional markets to sell commodities and utilize export markets. Several new buyers were added in 2023 and the Agency successfully sold export loads, though ultimately, these were not as efficient and effective as historical domestic loads. Despite this, it was pursued at the request of the previous Executive Director. • The former Executive Director directed staff to seek ways of “increasing income at the MRF to help offset costs.” Due to the direct effect of recycling commodity markets on Agency income and an inability to charge tipping fees on our recycling, this was not a practical or achievable goal. • There was a decrease in commercially-generated fiber volume at the MRF in 2023, likely a direct result of an overly aggressive approach toward private haulers by the Former Executive Director. • Staff began working with the Town of Marbletown to plan operational changes at their Municipal Recycling Drop Off Center to consult on ways of increasing waste diversions at the site, and the addition of a new recycling position at the Town (with support from a NYS DEC grant awarded to the Town). • The Agency's Recycling Outreach Team completed an MRDC recycling sign project in August 2023. The Agency had previously provided Towns with recycling since in 2017, and the signs needed to be updated. Sixty five (65) instructional signs were designed, customized to the specific dual stream recycling processes for each individual town, and were distributed to every Municipal Recycling Drop Off Center within UCRRA's service area. • The Agency's Recycling Outreach Team hosted a "MRDC INFORMATIONAL RECYCLING MEETING" on August 14th 2023 at the UCRRA Main Office. The meeting covered topics such as: Review Recycling Outreach Team Services, UCRRA Website & Recyclopedia Demonstration, Review Resource Packet of all UCRRA fliers, and several other topics relevant to this task. During the meeting, there was also a presentation by guest speaker Lee Anne Albritton, Ulster County Habitat for Humanity, to discuss an opportunity for Habitat for Humanity to partner with Towns to promote materials reuse programs.
<p>Monitor local and regional development of recycling programs and initiatives</p>	<p>COMPLETED</p>	<p>Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc.</p> <ul style="list-style-type: none"> • The Recycling Outreach Team maintains communications with municipal recycling drop off centers. The Team updated the master list of all MRDCs and requested updated information about the scope of services and additional recycling items accepted at each facility.
<p>Data</p>		

Collect tonnages of all materials brought into and shipped from UCRRA	COMPLETED	<ul style="list-style-type: none"> • Best practices are maintained to record every transaction brought in to or shipped out of UCRRA facilities. • Truck scales are properly calibrated on a quarterly basis to ensure accuracy. • Agency employees qualified Weight Masters, certified through Department of Weights and Measures. • Trends in hauler waste and recycling tonnages are reviewed on a monthly basis by Agency staff.
Collect data pertaining to facilities outside of UCRRA	COMPLETED	<ul style="list-style-type: none"> • The 2022 Ulster County Annual Waste & Recycling Report was conducted in 2023 and requested information from over 300 facilities. • Refer to Section 2 (Waste and Recyclables Data) for more information.
Reach out to large generators, including industrial waste generators, within the county on a yearly basis to understand tonnages produced	COMPLETED	<ul style="list-style-type: none"> • The 2022 Ulster County Annual Waste & Recycling Report was conducted and requested information from over 300 facilities. • The Agency actively seeks to identify new industries/facilities/contacts that may be added to the contact list to better understand total waste generation in the planning unit. • Refer to Section 2 (Waste and Recyclables Data) for more information.
Continue to collect data on all materials generated in Ulster County that are transported outside of the county	COMPLETED	<ul style="list-style-type: none"> • The 2022 Ulster County Annual Waste & Recycling Report was conducted and requested information from over 300 facilities, including contacts located outside of Ulster County that may receive waste or recyclables that were generated from within Ulster County. The report instructions clearly state that the tonnage provided on the report should relate to Ulster County generated waste only, to the greatest extent that information is available or it can be reasonably estimated. • Refer to Section 2 (Waste and Recyclables Data) for more information.
Submit yearly solid waste and recycling reports to NYSDEC	COMPLETED	<ul style="list-style-type: none"> • All annual reports were completed and submitted to NYS DEC as required.
Use information collected to help establish tipping fees and budget estimates	COMPLETED	<ul style="list-style-type: none"> • The Board of Directors participated in a special budget workshop on July 27th 2023 to become familiar with the budget process and elements that affect the Agency tipping fee. • The Agency's Director of Finance & Administration presented a draft budget to the Board of Directors in August 2023. • A Public Hearing on the Agency Budget was held September 21st 2023. • The Board of Directors ultimately approved a +\$5 per ton increase for 2024 at the October 30th 2023 Board meeting. All municipalities were notified of the rate increase.
Finance		
Continue to pay down debt service	COMPLETED	<ul style="list-style-type: none"> • \$1,790,000 debt service paid in 2023.
Apply for grants funding HHW events and educational programs	COMPLETED	<ul style="list-style-type: none"> • The Agency's Director of Sustainability successfully completed an application for the NY HHW state assistance grant, an application for MWRR/MWRC grant, and an application for the Pollution prevention Institute's grant in 2023. • The Agency's Director of Sustainability successfully completed quarterly progress reports as required by the MWRR contract.

		<ul style="list-style-type: none"> • Refer to Section 1.4.1 (Special Projects & Grants) for more information.
Feasibility Studies		
<p>The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP. The operational review may result in additional staffing needs , improvements, discussions of feasibility studies, etc.</p>	NOT COMPLETED	<ul style="list-style-type: none"> • Refer to section 1.6.1 (Plan Implementation Challenges - Changes in Executive Leadership) and Section 1.6.4 (Misc. Projects Initiated by Ollivier) for more information.
<p>Create GIS Map tools to evaluate landfill siting options and work with Agency Board, NYS DEC, Ulster County Planning Department and Department of the Environment, and other stakeholders to interpret results of the study and implications for future updates to this plan.</p>	COMPLETED	<ul style="list-style-type: none"> • The Agency Board of Directors received its DRAFT GIS landfill siting study report from HydroQuest in January 2022, pursuant to its feasibility study agreement. Consequently, there were various public relations efforts, meetings, and other events that followed as discussed in Section 1.6.2 (Ulster County Landfill Feasibility Study) • At the Agency's January 26th 2023 Regular Board Meeting, the Board unanimously passed Resolution No. 2585, Authorizing and Approving a Request for Proposals for Engineering Services. • At the February 2023 Agency Board meeting, the Board of Directors approved Resolution No. 2586, Authorizing and Approving a Statement of Interest for the Diversion of Waste. • Refer to Section 3.1 (Diversion or Waste Processing Technology Selection) for more information.
<p>Participate in Stony Brook University Waste Data & Analysis Center Waste Audit</p>	COMPLETED	<ul style="list-style-type: none"> • SUNY Stony Brook Waste Audit Analysis Center successfully completed a waste audit study at UCRRA from August 14th - 18th 2023. During that time, more than a dozen samples were sorted and analyzed. The samples represented the diverse sources of wastes including MSW from waste haulers, municipal drop off programs, and municipal curbside collection. Samples of commingled recycling was also sorted and analyzed. • Researchers began compiling results from the first two years of the study and shared preliminary draft findings in late 2023 which staff provided comments on and are presently awaiting the final report. • Refer to Section 3.4 (Stony Brook University Waste Data and Analysis Center) for more information.

Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.	COMPLETED	<ul style="list-style-type: none"> • Throughout 2023, former Executive Director Ollivier was tasked with several major initiatives, guided by Board directives to maximize waste diversion. (mattress recycling, MSW & C&D shredding, compactors, etc.) • Refer to Section 1.6.4 (Miscellaneous Projects Initiated By Ollivier) for more information. • At the Agency's January 26th 2023 Regular Board Meeting, the Board unanimously passed Resolution No. 2585, Authorizing and Approving a Request for Proposals for Engineering Services, which included a component of investigating opportunities for regionalization. • At the February 2023 Agency Board meeting, the Board of Directors approved Resolution No. 2586, Authorizing and Approving a Statement of Interest for the Diversion of Waste. • Refer to Section 3.1 (Diversion or Waste Processing Technology Selection) for more information. • Throughout 2023, Agency Board and staff engaged with the County's Reuse Innovation Center Feasibility Study planning team at various levels as the project developed. • Refer to Section 3.3. (Reuse Innovation Center) for more information.
Facility Upgrades & Improvements		
The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP over the planning period. The operational review may result in additional staffing needs or improvements.	NOT COMPLETED	<ul style="list-style-type: none"> • Refer to section 1.6.1 (Plan Implementation Challenges - Changes in Executive Leadership) and Section 1.6.4 (Misc. Projects Initiated by Ollivier) for more information.
Investigate site potential for creating additional facilities for existing waste diversion practices. The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP over the next two year planning period.	NOT COMPLETED	<ul style="list-style-type: none"> • Refer to section 1.6.1 (Plan Implementation Challenges - Changes in Executive Leadership) and Section 1.6.4 (Misc. Projects Initiated by Ollivier) for more information.

Evaluate abilities, programs, funding, etc. for implementing a residential battery recycling program.	NOT COMPLETED	<ul style="list-style-type: none"> As discussed in Section 1.6 of the biennial update, there were challenges to implementing some objectives, including Changes in Executive Leadership at the Agency. Recycling Outreach Team's directives adapted to new Executive Leadership, which emphasized growing the new volunteer program, having a greater presence at local schools, launching a new festival bin rental program, and other initiatives that lead to this task becoming a low priority in 2022-2023. Work on this task will continue in 2024-2025.
Per Capital Plan, purchase Heavy Equipment (Excavator-Ulster), Materials Recovery Equipment ((Skid Steer Loader w/Attachments & MRF Infeed Belt)	COMPLETED	<ul style="list-style-type: none"> Skid steer and Excavator were successfully ordered in September 2023 but due to 5-8 month lead time for both machines, they are anticipated to be received and put into service in 2024. The Agency also purchased a new roll off truck in 2023. The Agency took advantage of opportunities to purchase other used equipment: Sweeper (used), Maintenance Truck (used), Dump truck (used). Instead of replacing the MRF infeed belt, the Agency opted to extend its useful life by enclosing the surrounding area of the belt to minimize material loss off of the infeed belt.
Evaluate and update capital plan on an annual basis	COMPLETED	<ul style="list-style-type: none"> The Agency's Director of Finance & Administration presented a draft capital plan to the Board of Directors on August 22nd 2023. The Board of Directors approved the 5 year capital plan at the October 30th 2023 Board meeting. During 2023, the Sustainability Center/Compost Bagging Facility was added to the Capital Plan. Any updates to the capital plan will be represented in the updated Implementation Table.
Plan energy efficiency upgrades to the existing Administration Building - (converting lighting to LED and sensor based lighting, convert to water conserving toilets, replace roof?)	NOT COMPLETED	<ul style="list-style-type: none"> Agency staff continuously sought opportunities to learn about grant funding relevant to this task, such as the Decarbonization grant by Climate Action Hudson Valley. Ultimately there was a very restrictive timeline for grant applications that coincided with the Agency's regulatory reporting season so an application could not be prepared in time. As the year progressed, the Recycling Outreach Team's directives adapted to new Executive Leadership, which emphasized growing the new volunteer program, having a greater presence at local schools, launching a new festival bin rental program, and other initiatives that lead to this task becoming a low priority in 2023. Work on this task will continue in 2024-2025.
Organics Diversion		
Promote backyard composting and assist with implementation practices to residents, schools and business as needed	COMPLETED	<ul style="list-style-type: none"> The Recycling Outreach Team (ROT) actively educates the public about the UCRRA's composting operations, home composting, business composting options and food waste reduction strategies. 03/14/23 - UCRRA's Recycling Outreach Team Programs were highlighted during NY Compost Awareness Week meeting Refer to Section 1.4 for more details on the Recycling Outreach Team programs (Compost Bin Sale Events, Just Eat It Film Screenings, Compost Awareness Week campaigns, new Compost Demonstration Garden, new printed media about composting, website resources, SUNY Ulster video project etc.)

Monitor local and regional developments of organics recovery programs and initiatives	COMPLETED	<p>Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc.</p> <ul style="list-style-type: none"> • Agency staff participate in the NYS Organics Council, a committee of NYSAR3, to learn about organics recycling projects statewide. • Agency staff is actively aware of organics recycling projects being developed in Sullivan, Orange, and Dutchess Counties and has collaborated through a number of ways to support the development of those projects. • The ROT maintains a list of local food scrap drop off sites available to the public at https://ucrra.org/waste-recycling/food-waste/find-a-drop-off-spot/ • Staff attend conferences, trade shows, and participate in committees to stay connected with other regional/state developments.
Maintain memberships with USCC and STA	COMPLETED	<ul style="list-style-type: none"> • In July 2023, the Agency renewed membership with the USCC for the 10th year in a row. • The Agency continues to comply with all program rules and meets the standards and specifications of the Seal of Testing Assurance Certified Compost Program. • Quarterly compost testing was completed in March, June, September, and December of 2023. Compost Technical Data Sheets were added to the Agency website https://ucrra.org/compost-for-sale/compost-test-results/
Reach out to waste generators to inform them of the NYS Food Donation and Food Scrap Recycling Act requirements, encourage reduction and reuse of food scraps, i.e.	COMPLETED	<ul style="list-style-type: none"> • In October 2023, NYS DEC published the 2024 list of designated food scraps generators (DFSG) and their requirements for compliance with the NYS Food Donation & Food Scraps Recycling law. 1,164 businesses and institutions were identified for the 2024 DFSG list. All are required to donate and 458 are required to recycle their food scraps. The list identified 27 facilities in Ulster County, of which, only 13 are required to recycle. View 2024 list of Designated Food Scraps Generators: https://www.dec.ny.gov/docs/materials_minerals_pdf/dfsglist2024.pdf The list, as well as waiver information, compliance requirements, and current available resources, can be found on DEC's website: https://www.dec.ny.gov/chemical/114499.html • In October 2023, the Ulster County Department of Environment updated its list of large food scrap generators regulated under the law. There were 44 new businesses that will be regulated in 2024, in addition to the 56 previously regulated establishments. • Notices (outreach to large generators) is initiated by the Ulster County Department of the Environment, following which these facilities may or may not contact UCRRA directly to learn more about composting options. The Recycling Outreach Team provides educational services regarding all local composting options, as well as onboarding and consultation for the Agency's Partners in Composting Program. • Refer to Section 3.6 (Status of Organics Recycling Laws) for more information.
Evaluate success of bagged compost	COMPLETED	<ul style="list-style-type: none"> • The Agency successfully launched its new bagged compost operation in Spring 2023. Metrics from the program were collected and analyzed at the end

material		<p>of the compost season.</p> <ul style="list-style-type: none"> • Refer to Section 1.3.2 (Bagged Compost Sales) for more information.
Pending availability of funding, pursue tote bin cleaning station for Organics Recovery Facility.	NOT COMPLETED	<ul style="list-style-type: none"> • Preliminary discussions among staff ultimately deemed this project not currently feasible due to potential leachate containment challenges, so a tote bin cleaning station was not pursued but should be further evaluated in the future. • This task was related to the Municipal Food Scrap Hauling Pilot Project. Refer to Section 1.6.3 (Municipal Food Waste Hauling Pilot Project) for more details.
Develop tools and equipment, media kits, and other promotional items for the MOR project. Promote the program to 1-3 MRDCs and aid in launching the initiative by training new partners in composting and providing tools and equipment.	NOT COMPLETED	<ul style="list-style-type: none"> • This task was related to the Municipal Food Scrap Hauling Pilot Project. The Recycling Outreach Team developed concepts, preliminary budget, conducted surveys, held outreach presentations and other outreach communications to garner support and interest from local Towns, but was ultimately unsuccessful at getting buy-in to move forward with this project. • Refer to Section 1.6.3 (Municipal Food Waste Hauling Pilot Project) for more details.
Monitor performance of the 2020-2021 Compost Facility Improvements, and evaluate impact on odor mitigation.	COMPLETED	<ul style="list-style-type: none"> • During 2023, staff had discussions with host community elected officials and verified they have not received any odor complaints. Staff continually communicates with host community officials regarding any odor complaints. • Berm surrounding the perimeter of the compost operation footprint was reinforced with additional clay to minimize impacts of any stormwater runoff.
Research and implement technology needed for a Compost Facility weather station. Use data to enhance Compost Facility odor mitigation strategies.	NOT COMPLETED	<ul style="list-style-type: none"> • Per notes from 2022, the Agency became aware of a brand of weather station in use locally. The Director of Finance met with a vendor (Graylocks) in Fall 2022 to discuss the equipment, how to extract and maintain the data collected, issues around vector management, etc. and it became apparent that further research was necessary. • During 2023, staff continued to research the most beneficial equipment available. Staff was successful at implementing some initial infrastructure improvements to our existing network/site in preparation for adding cameras and potentially adding the weather station.
Education and Outreach		
Participation in regional conferences and trainings to obtain information on evolving solid waste management technology and practices, including recycling and composting	COMPLETED	<p>Refer to Section 1.4.9 (Professional Development) for more detailed information about staff attendance at solid waste, recycling, and organics conferences, industry trade shows, webinars, etc.</p>

Implement and evaluate public communications through print media advertising, social media, newsletters, flyers, and radio public service announcements	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful in addressing this task in 2023. • Refer to Section 1.4.7 for more details on social media and public advertising. • Refer to Section 1.4.8 for more details on New Agency Publications and Media.
Annual review of website, flyers, brochures, etc. as needed	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful at updating Agency media in 2023. • Refer to Section 1.4.8 for more details on the website and printed media.
Measure effectiveness of education programs	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team (ROT) routinely solicits feedback from all program participants through the use of class exit surveys. • The ROT routinely collects program tracking data on the total number of events, tours, classes, adults, youth, hours, phone calls, social media metrics, and other relevant metrics, and presents this data to the Board of Directors on a monthly basis. In December 2023 the Recycling Outreach Team conducted its annual analysis of year-end program tracking metrics. • These metrics are discussed throughout Section 1.4 of the biennial update.
Actively engage the community to be involved with recycling and waste programs	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful in addressing this task in 2022. • Noteworthy - The Agency's Recycling Outreach Team hosted a "MRDC INFORMATIONAL RECYCLING MEETING" on August 14th 2023 at the UCRRA Main Office. The meeting covered topics such as: Review Recycling Outreach Team Services, UCRRA Website & Recyclopedia Demonstration, Review Resource Packet of all UCRRA fliers, Overview of the Agency's HHW Program, Paint Care NY Program, and several other topics relevant to this task. During the meeting, there was also a presentation by guest speaker Lee Anne Albritton, Ulster County Habitat for Humanity, to discuss an opportunity for Habitat for Humanity to partner with Towns to promote materials reuse programs. • Refer to Section 1.4 for more details on the Recycling Outreach Team programs.

Targeted outreach and community engagement efforts to local public schools	COMPLETED	<ul style="list-style-type: none"> • Refer to Section 1.4.2 for a list of classes, and Section 1.4.3 for a list of tours, as it relates to school engagement. • In November of 2022, the ROT announced a new program geared toward Ulster County Schools; the Ulster County Recycling Ranger program, which is currently still in development. • The ROT maintains a school program tracker to monitor engagement with school officials. • 03/17/23 - communications regarding NYSAR3's Green School Grant Program was circulated to all Ulster County School Contacts. • In July 2023, staff nominated Karen Hadley's (Onteora Central School District) for the NYSA3 Recycling Leadership Award in the Education Institution Category. Karen had led an impressive and widely successful film plastic recycling program school-wide, which was highlighted on the Agency's blog in the previous year. The program was ultimately selected for the award and ROT staff attended a School Board meeting in December 2023 to present the award to Ms. Hadley and her students. News of the award was publicized in local news publications. • 09/29/23 - communications regarding Plastic Free Lunch Day were circulated to all Ulster County School Contacts. • By request, the ROT mailed dozens of kits to local teachers and faculty members across various School Districts in 2023. • In late Fall/early Winter 2023, the Recycling Outreach Team contacted the Mid Hudson Teacher Center to introduce Agency educational programs and discuss the possibility of being a MHTC affiliate.
Maintain communication with all schools regarding grant information, available programs, and resource material	COMPLETED	<p>See comments noted above. Additionally:</p> <ul style="list-style-type: none"> • 03/17/23 - communications regarding NYSAR3's Green School Grant Program was circulated to all Ulster County School Contacts
Provide tours and hands-on learning experiences to the public	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team was highly successful in addressing this task in 2023. • The Agency standard tour safety briefing was reviewed and updated in 2023. • Refer to Section 1.4.3 for a list of tours
Continue to promote new educational programs offered at UCRRA.	COMPLETED	<ul style="list-style-type: none"> • The Agency's Recycling Outreach Team hosted a "MRDC INFORMATIONAL RECYCLING MEETING" on August 14th 2023 at the UCRRA Main Office. The meeting covered topics such as: Review Recycling Outreach Team Services, new Master Composter-Recycler Program, UCRRA Website & Recyclopedia Demonstration, Review Resource Packet of all UCRRA fliers, Overview of the Agency's HHW Program, Paint Care NY Program, and several other topics relevant to this task. • Refer to Section 1.4 for more details on the Recycling Outreach Team programs.

Develop concepts for a UCRRA Compost Fair & Education Day Event in collaboration with Spring Compost Bin & Rain Barrel Sales and International Compost Awareness Week and other community organizations.	NOT COMPLETED	<ul style="list-style-type: none"> As the year progressed, the Recycling Outreach Team's directives adapted to new Executive Leadership, which emphasized growing the new volunteer program, having a greater presence at local schools, launching a new festival bin rental program, and other initiatives that lead to this task becoming a low priority in 2023. Work on this task will continue in 2024-2025.
Create UCRRA video series to facilitate virtual tours and improve community literacy about UCRRA programs and services.	COMPLETED	<ul style="list-style-type: none"> Completed ahead of schedule in 2022. The "Rethinking Our Waste" video is a 3 minute long professional video about the Agency which was created through a collaborative project with SUNY Ulster County Community College via the Digital Visual Narrative ART263 design class. The staff met with the design students over several weeks to develop the content and messaging for the video which is now played at the beginning of most Agency classes or special events. The ROT acknowledges student Jeremy Warg for their contributions towards this project, under the direction of Sean Nixon, Professor of Art & Applied Learning.
Develop concepts for a county-wide America Recycles Day campaign, competition, or event.	NOT COMPLETED	<ul style="list-style-type: none"> As the year progressed, the Recycling Outreach Team's directives adapted to new Executive Leadership, which emphasized growing the new volunteer program, having a greater presence at local schools, launching a new festival bin rental program, and other initiatives that lead to this task becoming a low priority in 2023. Work on this task will continue in 2024-2025.
Evaluate PaintCare NY program and advocate to MRDCs to participate in paint stewardship. Evaluate other opportunities to expand Paint Care service and programs.	COMPLETED	<ul style="list-style-type: none"> Refer to Section 1.3.5 (Paint Care NY) for more details. The Agency hosted four HHW events in 2024, all of which were Paint Care programs. The Agency's HHW flier and other media was updated to include more paint care information. The Recycling Outreach Team monitored the Paint Care NY website to ensure the list of participant Paint Care drop off sites listed on the Agency's website was accurate and up to date. Notably, two new sites were established in 2023 (Ellenville NY). 03/30/23 staff attended a Webinar – Paint Care: It's on a Roll - to learn about the progress and status of the Paint Product Stewardship program. The Recycling Outreach Team hosted an "MRDC INFORMATIONAL RECYCLING MEETING" held on August 14th 2023 at the UCRRA Main Office. Paint Care was a topic on the agenda that was briefly introduced to the meeting attendees. The Recycling Outreach Team expressed interest in planning a dedicated meeting for the Towns to learn more about Paint Care at a near-future date. While these basic acts were completed, additional outreach is needed. Work on this task will continue in 2024-2025.

Continue to ship MSW and C&D via long haul trailers to Seneca Meadows Landfill (assumed through 2024)	COMPLETED	<ul style="list-style-type: none"> • Per contracts with transport and disposal vendors, the Agency was successful at ensuring the final proper disposal of MSW throughout 2023.
Technology Assessment		
Continue to evaluate different and emerging technologies for waste management	COMPLETED	<ul style="list-style-type: none"> • Refer to Section 3.1 (Diversion or Waste Processing Technology Selection) for more information
Participation in regional meetings with local counties to investigate opportunities for collaboration and develop solutions to shared concerns	COMPLETED	<ul style="list-style-type: none"> • Agency staff participates in the Hudson Valley Regional Council - Materials Management working group, which is a network of Region 3 counties and solid waste planning unit members. The group meets on a quarterly basis to discuss development of projects, challenges, and opportunities. Recycling Outreach Team regularly attended and engaged in quarterly meetings and routine discussions with Recycling Coordinators in neighboring Counties. • Note: Executive Director (Ollivier) met with Dutchess County in January 2023 and Sullivan County in March 2023. • Note: In 2023 new Board members requested background on the regionalization study previously commissioned by the Agency in 2019 (GUS Feasibility Study). The Agency is interested in an ongoing discussion about the possibilities of a regional approach to sustainable materials management.
Participate in the Hudson Valley Regional Council Materials Management working group and maintain communication with neighboring County waste and recycling departments and Authorities to stay apprised of local tipping fee rates, the development of new facilities, innovative recycling programming, and regional waste-sustainability efforts.	COMPLETED	<ul style="list-style-type: none"> • Agency staff participates in the Hudson Valley Regional Council - Materials Management working group, which is a network of Region 3 counties and solid waste planning unit members. The group meets on a quarterly basis to discuss development of projects, challenges, and opportunities. Recycling Outreach Team regularly attended and engaged in quarterly meetings and routine discussions with Recycling Coordinators in neighboring Counties. • Regional tipping fees comparison (spreadsheet) was created in 2023. • Note: Executive Director (Ollivier) met with Dutchess County in January 2023 and Sullivan County in March 2023. • Note: In 2023 new Board members requested background on the regionalization study previously commissioned by the Agency in 2019 (GUS Feasibility Study). The Agency is interested in an ongoing discussion about the possibilities of a regional approach to sustainable materials management.

II. WASTE AND RECYCLABLES DATA

2.1.1 (2022) Waste & Recyclables Materials Summary by Category

The summary presented in this section represents survey results collected through the *Ulster County Annual Waste & Recycling Reports*, a survey conducted with over 275 large waste generators that operate within and outside of the planning unit. All weights presented below are reported as tons.

Figure 20. 2022 Annual Waste & Recycling Report Materials Summary by Category.

MATERIAL	TOTALS	TOTALS	CATEGORY
1. MSW	118,357.41	176,580.90	DISPOSAL
2. C&D DEBRIS	58,013.76		
3. BIOSOLIDS	209.73		
4. Single Stream Recyclables	9,710.47	30,828.46	RESIDENTIAL & COMMERCIAL RECYCLING
5. Mixed Paper (all grades)	2,769.57		
6. Corrugated Cardboard	12,622.61		
7. Container glass (all colors)	2,191.18		
8. Dual Stream Recyclables (comingled plastic, glass, metal)	1,338.79		
9. Beverage Containers (5 cent deposit)	2,195.84		
10. Film Plastics	186.16	186.16	FILM PLASTIC RECYCLING
11. Electronics (all types)	395.55		
12. Clothing, Shoes, & Textiles	380.04	380.04	TEXTILE RECYCLING

13. Tires	1520.254	1520.254	TIRE RECYCLING
14. Furniture, Misc. Bulk items (REUSE)	61.45	1,321.61	MISC. REUSE & DONATION
15. Wood Pallets (REUSE)	1254.662		
16. Fluorescent Lighting	10.20016	755.58	MISC. HAZARDOUS WASTES
17. Batteries (specify type)	200.822		
18. Antifreeze	14.613		
19. Motor Oil	230.7738		
20. Oil Filters	3.5		
21. Waste Fuels	52.652		
22. Propane Tanks	8.198		
23. Bulk Liquids (specify type)	26.1		
24. Pharmaceutical Waste (medications)	0.7		
25. Medical SHARPS (syringes, needles, etc.)	96.9075		
26. Contaminated Soil	17.5		
PAINTCARE	40.925		
UCRRA HHW PROGRAM	17.968		
27. Bulk metal (residential)	5450.35	14,381.76	SCRAP METAL RECYCLING
28. Ferrous metal	8096.78		
29. Nonferrous metal	729.92		
30. Freon appliances (air conditioners, refrigerators, etc.)	104.71		
31. Food Scraps (COMPOSTING)	6134.536	26,577.25	ORGANICS RECYCLING
32. Food Scraps (ANIMAL FEED)	1030.131		
33. Food Donations	2591.869		

34. Fats, Oils, Grease	2571.12		
35. Yard Wastes (Brush, Branches, Trees, Stumps)	8485.68		
36. Wood Pallets (for composting)	430.42		
37. Leaves/Grass	1131.13		
38. Animal Manure	1200		
UCRRA BIOSOLIDS COMPOSTING	3002.36		
40. Brick, Concrete, Masonry Materials (specify type)	9971.63	10,099.53	C & D RECYCLING & RECOVERY
41. Plaster, drywall, non-asbestos insulation, etc.	0		
42. Clean Uncontaminated Soil & Rock	127.9		

2.1.2 (2022) Waste & Recyclables Graphs Summary

Figure 21. 2022 Annual Waste & Recycling Report Graph of Regulated Recyclable Materials by Category

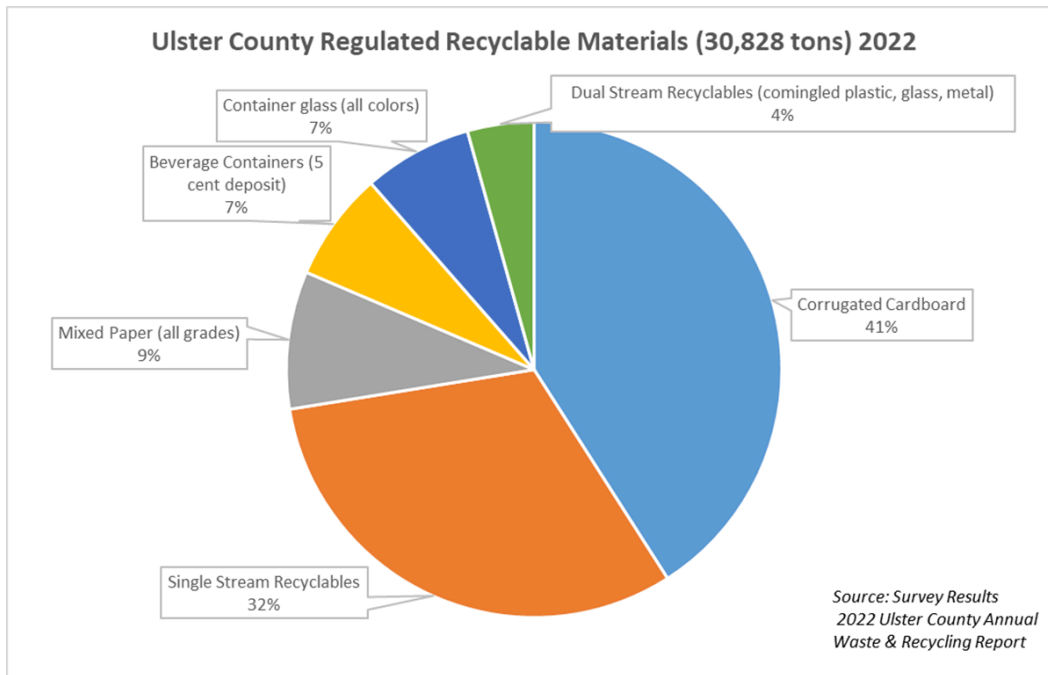


Figure 22. 2022 Annual Waste & Recycling Report Graph of Organics Recovery Materials by Category

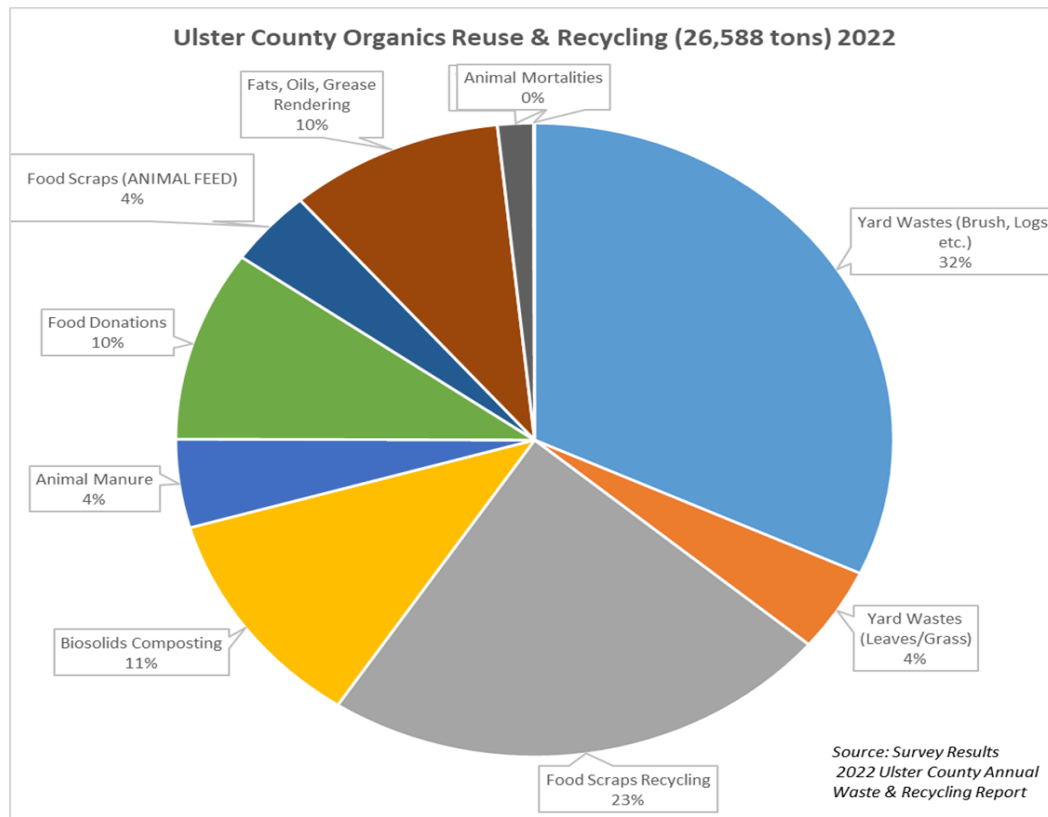
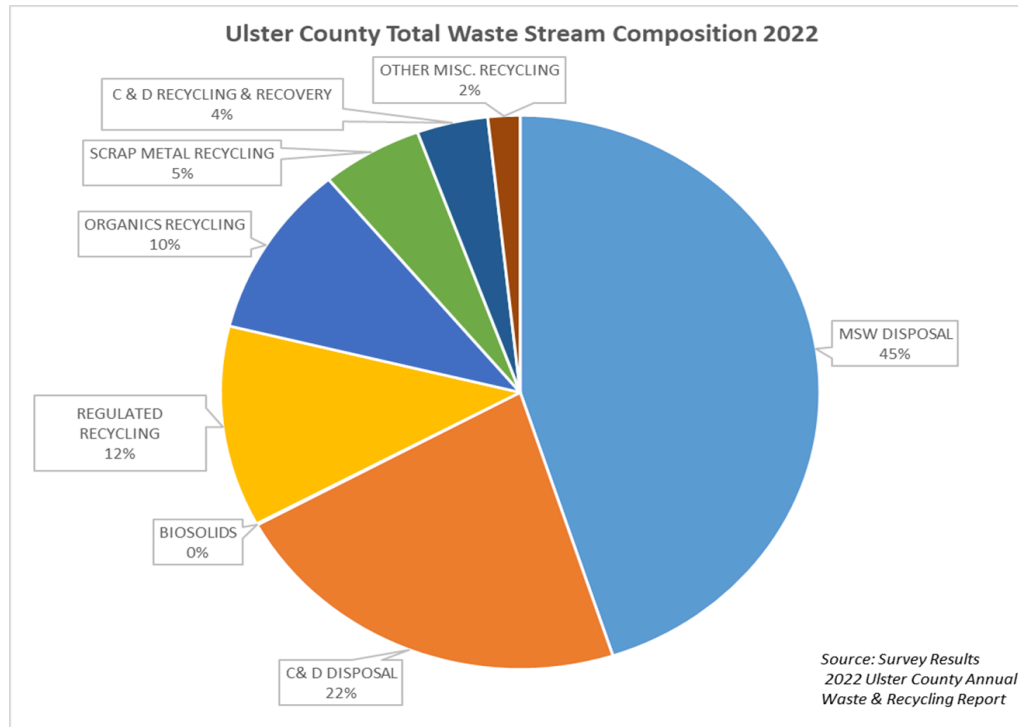


Figure 23. 2022 Annual Waste & Recycling Report Graph of Total Waste Stream by Category



2.1.3 (2022) Waste and Recyclables Summary by Final Disposal and Recycling Destinations

This section lists the names and locations of all known facilities that accepted waste or recyclables from the planning unit during this period. For each facility, the quantity and the type of wastes is listed. Where possible, recyclables include separate categories for various components separately.

The summary below represents survey results collected through the 2022 Ulster County Annual Waste & Recycling Report. All weights are reported in tons. Entries that are highlighted yellow represent waste processed through the Ulster County Resource Recovery Agency programs and services.

Figure 24. 2022 Annual Waste & Recycling Report Summary by Category with Final Disposal Destination Detail

ANTIFREEZE

Advanced Oil Recovery P.O. BOX 864 Milford PA 1837	0.828
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<i>Envirowaste Mahopac NY</i>	<i>0.1</i>
<i>Safety Kleen 1502 E. Villa St. 2nd Floor Elgin, IL 60120</i>	<i>13.157</i>
<i>Sheldon Oil Services Inc. 1005 Route 9 Casteleton on Hudson NY 12033</i>	<i>0.36</i>
<i>Tony's Power Equipment Modena NY</i>	<i>0.168</i>

BATTERIES (VARIOUS TYPES UNSPECIFIED)

<i>BRIM RECYCLE 23 NY 211 Cuddleback NY 12729</i>	<i>0.58</i>
<i>Call2Recycle 1000 Parkwood Circle Suite 200 Atlanta, GA 30339</i>	<i>0.05</i>
<i>Cirba Solutions 4930 Holtz Dr. Wixom, MI 48393</i>	<i>0.009</i>
<i>Clarios 50 Patriot Drive Middletown DE 19709</i>	<i>16.12</i>
<i>Clean Mgmt Env Group PO BOX 1606 Watterboro SC 29488</i>	<i>0.115</i>
<i>D&D NAPPA 716 Route 208 Gardiner NY 12525</i>	<i>1.07</i>
<i>Double Win Baltimore MD, 9200 W Marlboro Rd Farmville NC 27828</i>	<i>40</i>
<i>East Penn Manufacturing 102 Deker Rd Lyon Station PA 19536</i>	<i>32</i>
<i>Intera Materials 8005 Dorsey Run Rd Jessup MD 20794</i>	<i>70</i>
<i>NAPA Auto Parts - North East Parts Group 5764 US-209, Kerhonkson, NY 12446</i>	<i>0.796</i>
<i>Nathan H. Kelman Inc. 41 Euclid St. Cohoes NY 12047</i>	<i>38</i>
<i>National Lamp Recycling 250 Main St East Windsor CT 06088</i>	<i>0.061</i>
<i>RecyclePak W6490B Specialty Dr Greenville, WI 54942</i>	<i>0.018</i>
<i>Rever Smelting & Refining, 65 Ballard Road Middletown NY BRME 420 S River St Calhoun GA</i>	<i>1.06</i>
<i>NAPA Auto Parts - Rip's Auto Parts Inc 238 Ulster Ave, Saugerties, NY 12477</i>	<i>0.4</i>
<i>Veolia ES Technical Solutions 90 Pleasant Street West Bridgewater MA 02379</i>	<i>0.023</i>
<i>Auto Plus 351 Spook Road Suffern, NY 10901</i>	<i>0.52</i>

BIOSOLIDS DISPOSAL

<i>Albany County Sewage Treatment Plant Canal Rd S, Menands NY</i>	22.98
<i>Dawes Septic & Repairs 1993 State Rt 32 Modena NY 12548</i>	134.1
<i>Earth Care 80 Dennings Ave, Beacon, NY 12508</i>	30
<i>Destination Unspecified by Tuthilltown Spirits LLC Gardiner NY 12525</i>	22.65

C&D DISPOSAL

Seneca Meadows Landfill 1786 Saloman Road Waterloo NY 13165	33,119.17
<i>Alliance Sanitary Landfill 398 South Keyser Ave Taylor PA 18517</i>	8.6
<i>Chemung County Landfill 1488 CTY RT 60 Lowman NY</i>	17340
<i>Greene County Solid Waste Management - 1181 NY 385 Catskill NY 12414</i>	28.62
<i>GreenRidge Landfill 424 Peters Rd Gangevoort NY 12831</i>	2750
<i>IWS Goshen, 96 Hartley Rd Goshen NY 10926,</i>	95.13
<i>Keystone Sanitary Landfill 249 Dunham Dr Dunmore PA 18512</i>	2196.85
<i>Middletown Carting 83-85 Industrial Place Ext Middletown NY 10940</i>	233.91
<i>Orange County Transfer Station 1 - 21 Training Center Ln New Hampton NY 10958</i>	2.29
<i>Recycle Depot 230 Van Wagner Rd, Poughkeepsie, NY 12603</i>	2031
<i>Rieber Firewood Rock Hill, NY 12775</i>	9.12
<i>Sullivan C&D 100 North Street Monticello NY 12701,</i>	198.59
<i>United Safety LLC 22 Troy Lane Lincoln Park NJ 07035</i>	0.48

C&D RECYCLING (CLEAN, UNCONTAMINATED SOIL & ROCK)

<i>JVB Landscaping Wappingers Falls NY</i>	127.9
Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY	732.49

C&D RECYCLING (CONCRETE, BRICK, MASONRY, ETC.)

<i>Recycling Crushing Technology 27 Commerce Street Poughkeepsie NY 12603</i>	613.42
<i>Argenio Brothers Inc. 14 Argenio Dr New Windsor NY 12553</i>	45.15
<i>Town of Esopus MRDC 70 Westshore Drive West Park NY 12493 (Onsite)</i>	16.5
<i>Ulster County Dept. Public Works 317 Shamrock Lane Kingston NY 12401</i>	6347
<i>Profex 264 N Plank Rd Newburgh NY 12550</i>	1020
<i>Recycling Crushing Technology 27 Commerce Street Poughkeepsie NY 12603</i>	408
<i>Taylor Montgomery LLC 350 Neelytown Road Montgomery NY 12549</i>	533.61

ELECTRONICS RECYCLING

<i>Advanced Recovery Inc. Grafton Ave Newark NJ 07104</i>	0.788
<i>Electronics Recycling International Inc., 510 Ryerson Rd Suite 5 Lincoln Park NJ 07035</i>	70.49
<i>Electronics Recycling International Inc, 3100 Reeves Rd Plainfield, IN 46168</i>	4.46
<i>Electronics Recycling International Inc, 89 Cross St, Holliston, MA 01746</i>	8.38
<i>EWASTE+ 7318 Victor Mendon Rd Victor NY 14564</i>	69.9
<i>G2 Revolution 14601 Cty Rd 212, Findlay, OH, 45840</i>	0.332
<i>Midnight Sun NF - 734 Franklin Ave Garden City NJ 11530</i>	7
<i>Mike Fuegman & Co. Ravena NY</i>	0.48
<i>PCA 7401 S Broadway Red Hook NY 12571</i>	2.1
<i>Upcycle USA LLC 10 Commerce Rd Fairfield NJ 07004</i>	40.88
<i>Veolia ES Technical Solutions 90 Pleasant Street West Bridgewater MA 02379</i>	2.16
Electronics Recycling International Inc., 89 R Cross Street Holliston MA 01746	181.79

FILM PLASTIC RECYCLING

<i>GP Harmon 1 Jericho Plaza Suite 204 Jericho, NY 11753</i>	6.3
<i>Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12602</i>	118
<i>Novolex: 999 N. Madison Ave North Vernon, IN 47265</i>	7.84
<i>Raymour Monmouth Junction Distribution Center 85 Culver Rd Monmouth Junction NJ 08852</i>	0.5
<i>TREX Co. 160 Exeter Dr Winchester VA 22603-8605</i>	53.52

FLOURESCENT LIGHTING

Clean Harbors facilities in; Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232); El Dorado, AR (309 American Rd, El Dorado, AR 71730) – Agency Bulbs	2040
Clean Harbors facilities in; Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232); El Dorado, AR (309 American Rd, El Dorado, AR 71730) – HHW Program	3835
<i>American Lamp Recycling 55 Riverview Dr Marlboro NY 12542</i>	2.72
<i>EACR Inc. Lakewood NJ and American Lamp Recycling</i>	0.85
<i>G2 Revolution 14601 Cty Rd 212, Findlay, OH, 45840</i>	0.005
<i>National Lamp Recycling 250 Main St East Windsor CT 06088</i>	0.20026
<i>Veolia ES Technical Solutions 90 Pleasant Street West Bridgewater MA 02379</i>	4.5

FREON APPLIANCES AND/OR REFRIGERANTS

<i>Ben Weitsman of Albany 300 Smith Blvd Albany NY 12201</i>	12.5
<i>Clarkson's Appliance 249 State Route 32 N New Paltz NY 12561</i>	0.88
<i>JGS Recycling & Hauling Inc. 392 Hudson River Rd, Waterford, NY 12188</i>	1.7

<i>Midnight Sun NF 734 Franklin Ave Garden City NJ 11530</i>	12.5
<i>Interstate Refrigerant Solutions Inc 131 Morse Street Foxboro, MA 02035</i>	77.13

MEDICAL SHARPS

<i>Approved Storage and Waste 110 Edison Avenue Mt. Vernon, NY 10550</i>	0.2975
<i>Daniels Health 925 Conroy Place Easton PA 19040</i>	2.9
<i>SHARPS 3126 Lincoln Highway Paradise PA 17502</i>	2.04
<i>Stericycle Inc. Rotterdam Industrial ark Bldg 1 Rotterdam NY 12306</i>	91.67

MEDICAL PHARMACEUTICAL WASTE

<i>Stericycle Inc. Rotterdam Industrial ark Bldg 1 Rotterdam NY 12306</i>	0.7
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MOTOR OIL

<i>Advanced Oil Recovery P.O. BOX 864 Milford PA 1837</i>	9.81
<i>Clean Management Env Group PO BOX 1606 Watterboro SC 29488</i>	0.15
<i>Envirowaste Oil Recovery LLC 279 US-6, Mahopac, NY 10541</i>	0.09
<i>Lamela Sanitation Service 1118 Rte 9W, Marlboro, NY 12542</i>	5
<i>Lonstein Motors - 44 Canal St, Ellenville, NY 12428</i>	0.53
<i>Miller Environmental 169 Stone Castle Rd Rock Tavern NY 12575</i>	10
<i>Safety Kleen 1502 E. Villa St. 2nd Floor Elgin, IL 60120</i>	185.348
<i>Safety Kleen 17 Green Mountain Drive Cohoes NY 12047</i>	14.5658
<i>Sheldon Oil Services Inc. 1005 Route 9 Casteleton on Hudson NY 12033</i>	3.8
<i>Starr Collision & Auto Body Route 9W Lake Katrine NY</i>	0.88
<i>Tony's Power Equipment Modena NY</i>	0.6

MUNICIPAL SOLID WASTE DISPOSAL

Seneca Meadows Landfill 1786 Saloman Road Waterloo NY 13165	118,357.41
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OIL FILTERS

<i>Advanced Oil Recovery P.O. BOX 864 Milford PA 1837</i>	0.25
<i>Luzon Environmental Services 1246 Glen Vild Rd Woodridge NY 12789</i>	1
<i>Planet Earth Recycling 3280 Sunrise Hwy 303 Wantagh NY 11793</i>	0.9
<i>Safety Kleen 1502 E. Villa St. 2nd Floor Elgin, IL 60120</i>	22.579
<i>Safety Kleen 17 Green Mountain Drive Cohoes NY 12047</i>	1.35

ORGANICS – BIOSOLIDS COMPOSTING

Rockland County Composting Facility, 400 Torne Valley Road, Hillburn NY 10931	3002.36
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ORGANICS – ANIMAL FEED

<i>Darling International 825 Wilson Ave Newark NJ 07105</i>	81.28
<i>Forsyth Animal Nature Center 125 Lucas Ave Ext. Kingston NY 12401</i>	39
<i>Hetrickdale Farm 69 Hetrick Rd, Bernville, PA 19506</i>	57.5
<i>Jason Miller/ Bella Acres Farm</i>	3.98
<i>MMT Cattle Inc 1942 Hickory Hill Rd, Fonda, NY 12068</i>	191.161
<i>"SANTOROSKI"</i>	15.6
<i>Tantillo Farm LLC 101 Marabac Rd Gardiner NY 12525</i>	638
<i>Windwood Farm 1631 US-44, Clintondale, NY 12515</i>	7.5
<i>Wrangler Hill Farm 522 Fitzsimmons Rd</i>	7.8

ORGANICS – ANIMAL MANURE COMPOSTING

Community Compost Company 5941 Route 209 Kerhonkson NY 12446	700
Sweet Peet Organics Inc P.O. BOX 538 Pawling NY 12564	500

ORGANICS – ANIMAL MORTALITY COMPOSTING

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY	10.99
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ORGANICS – BRUSH/YARD WASTE COMPOSTING

Community Compost Company 5941 Route 209 Kerhonkson NY 12446	750
Custom Compost 168 Milton Turnpike Milton NY 12547	24
Greenway Environmental Services 205 Hurds Road Clintondale NY 12515	320
Maple Ridge Bruderhof 10 Hellbrook Lane Ulster Park NY 12487	20
Marbletown Highway Dept. Stone Ridge NY	22.4
Town of Esopus MRDC 70 Westshore Drive West Park NY 12493 (Onsite)	1632
Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561 (Onsite)	419.64
Town of Rochester MRDC 100 Airport Rd Accord NY 12404 (onsite)	1
Town of Shawangunk MRDC River Road Walkill NY 12589 (onsite)	15
Town of Wawarsing MRDC 88-101 George Young Blvd Wawarsing NY (onsite)	1000
Ulster Highway Dept. 584 E Chester St, Kingston, NY 12401	1085.51
Green Valley Landscaping 57 Cornell St Kingston NY	0.75
Town of Woodstock Highway Dept 100 W Saugerties Rd Woodstock NY 12498	0.6
Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY	1138.49
New Paltz Central School District (all locations)	1
State University of New York at NEW PALTZ 1 Hawk Drive New Paltz NY 12561	19.2
WeCare Denali 232 Colt Hwy Farmington CT 06032	10.25

ORGANICS – CLEAN WOOD

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY	270.21
<i>Greenway Environmental Services 205 Hurds Road Clintondale NY 12515</i>	24.7
<i>Power Pallet 4715 State Highway 30 Amsterdam NY 12010</i>	19.1
<i>Taylor Montgomery LLC 350 Neelytown Road Montgomery NY 12549</i>	263.2
<i>Town of Woodstock Highway Dept 100 W Saugerties Rd Woodstock NY 12498</i>	3.12

ORGANICS – FATS, OIL, GREASE, RENDERING

<i>Albany County Sewage Treatment Plant Canal Rd S, Menands NY</i>	40
<i>Darling International 825 Wilson Ave Newark NJ 07105</i>	126.98
<i>Dawes Septic & Repairs 1993 State Rt 32 Modena NY 12548</i>	2003.54
<i>Liquid Environmental Services 2181 Ellis Dr, Auburn, NY 13021</i>	15
<i>M+O Sanitation 70 Fairview Ave Poughkeepsie NY 12001</i>	0.8
<i>Dar Pro Solutions 5601 N Macarthur Blvd Irving, TX 75038</i>	43.9
<i>JC Rendering Inc. 201 Jackson Rd Frankfort NY 13340</i>	174.4
<i>Restaurant Technologies 2250 Pilot Knob Rd Ste 100 Medota Heights MN 55120</i>	3.51
<i>Miller Environmental, Tradebe T&R North East 50 Cross Street Bridgeport CT 06610</i>	161.6
<i>Buffalo Biodiesel Inc. 225 Sawyer Ave, Tonawanda, NY 14150</i>	0.28

ORGANICS – FOOD DONATIONS

<i>Dutchess Outreach Programs Poughkeepsie NY</i>	36.4
<i>Food Bank of the Hudson Valley - 19 Hudson Street Cornwall-on-Hudson NY 12520</i>	1905
<i>Hudson Valley AgriBusiness Corp 507 Warren St Hudson NY 12539</i>	1

<i>Peoples Place 17 Saint James St Kingston NY 12401</i>	<i>10</i>
<i>Regional Food Bank of Northeastern NY 965 Albany-Shaker Road Lathan, NY 12110</i>	<i>567.869</i>
<i>Town of New Paltz 3 Clearwater Rd New Paltz NY 12561</i>	<i>2</i>
<i>Various locations unspecified</i>	<i>17.6</i>

ORGANICS – LEAVES/GRASS CLIPPINGS

<i>Town of Esopus MRDC 70 Westshore Drive West Park NY 12493 (Onsite)</i>	<i>4.7</i>
<i>Town of Rosendale MRDC 414 Whiteport Road Kingston NY 12401</i>	<i>77.5</i>
<i>Town of Shawangunk MRDC River Road Walkkill NY 12589</i>	<i>16</i>
<i>Green Valley Landscaping 57 Cornell St Kingston NY</i>	<i>0.75</i>
<i>Greenway Environmental Services 205 Hurds Road Clintondale NY 12515</i>	<i>125</i>
<i>Maple Ridge Bruderhof 10 Hellbrook Lane Ulster Park NY 12487</i>	<i>8</i>
<i>New Paltz Central School District (all locations)</i>	<i>1</i>
<i>State University of New York at NEW PALTZ 1 Hawk Drive New Paltz NY 12561</i>	<i>612</i>
<i>Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561 (Onsite)</i>	<i>125.93</i>
<i>Ulster Highway Dept. 584 E Chester St, Kingston, NY 12401</i>	<i>150</i>

ORGANICS – SOURCE SEPARATED ORGANICS FOR ANAEROBIC DIGESTION

<i>Agricycle Energy 95 Plasant Hill Rd Suite G Scarborough ME 04074</i>	<i>589.46</i>
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ORGANICS – SOURCE SEPARATED ORGANICS FOR COMPOSTING

<i>Agricycle Energy 95 Plasant Hill Rd Suite G Scarborough ME 04074</i>	<i>589.46</i>
<i>Ag-Grid Energy LLC (Divert Inc) 312 Granby Road Granville, MA 01034</i>	<i>15.31</i>
<i>Blash Farm 40 Auburn Rd, Millbury, MA 01527</i>	<i>1.8</i>

Community Compost Company 5941 Route 209 Kerhonkson NY 12446	385
Ellenville Regional Hospital 10 Healthy Way Ellenville NY 12428	2.64
Greenway Environmental Services 205 Hurds Road Clintondale NY 12515	406
Health Alliance of the Hudson Valley 105 Marys Ave Kingston NY 12401	14.36
Maple Ridge Bruderhof 10 Hellbrook Lane Ulster Park NY 12487	15.5
McEnroe Farm 5409 NY-22, Millerton, NY 12546	5.1
Mohonk Mountain House (Smily Brothers Inc) 1000 Mountain Rest Road New Paltz NY 12561	150
OCRRA Amboy Compost Facility 6296 Airport Rd, Syracuse, NY 13209	3.77
Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561 (Onsite)	7.866
Town of Woodstock Highway Dept 100 W Saugerties Rd Woodstock NY 12498	0.21
Wallkill Correctional Facility - 50 McKendrick Rd Wallkill NY 12589	54.5
Wallkill Correctional Facility - 50 McKendrick Rd Wallkill NY 12589	57.26
WeCare Denali 232 Colt Hwy Farmington CT 06032	8.54
Woodstock Day School 1430 Glasco Turpike Saugerties NY 12477	1.5
Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY	4320.96

ORGANICS – WOODCHIPS

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY	2025.59
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OTHER – PAINT RECYCLING

Green Sheen Rotterdam Corporate Park, Rotterdam NY (Paint Care NY)	14.6	Other – Community Paint Care sites
Clean Harbors facilities in: Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232); Smithfield, KY (3700 Lagrange Rd, Smithfield, KY 40068).	4.65	Other - Paint (HHW non Paint Care eligible)

Clean Harbors facilities in;	26.3 25	Other - Paint (HHW Paint Care eligible)

OTHER – HHW PROGRAM

Clean Harbors facilities in Cranston, RI (167 Mill St, Cranston, RI 02905); El Dorado, AR (309 American Rd, El Dorado, AR 71730).	2.15	Other - (HHW) Aerosols
Clean Harbors facilities in Cranston, RI (167 Mill St, Cranston, RI 02905); El Dorado, AR (309 American Rd, El Dorado, AR 71730); Smithfield, KY (3700 Lagrange Rd, Smithfield, KY 40068); Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232); Reidsville, NC (208 Watlington Industrial Dr, Reidsville NC 27320)	2.1815	Other - (HHW) Ammonia, Caustics, & Acids
Clean Harbors facilities in; Smithfield, KY (3700 Lagrange Rd, Smithfield, KY 40068).	7.675	Other - (HHW) Bulk Flammable Liquids
Clean Harbors facilities in; Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)	0.017 5	Other - (HHW) Mercury
Clean Harbors facilities in; El Dorado, AR (309 American Rd, El Dorado, AR 71730); Reidsville, NC (208 Watlington Industrial Dr, Reidsville NC 27320)	0.201 5	Other - (HHW) Oxidizing Solids
Clean Harbors facilities in Cranston, RI (167 Mill St, Cranston, RI 02905)	6.625	Other - (HHW) Pesticide Solids & Liquids

OTHER – LAMP RELATED

Veolia ES Technical Solutions 90 Pleasant Street West Bridgewater MA 02379	0.703	OTHER - LAMP RELATED - non PCB ballasts
National Lamp Recycling 250 Main St East Windsor CT 06088	0.047 5	OTHER - LAMP RELATED - PCB lighting ballasts
Veolia ES Technical Solutions 90 Pleasant Street West Bridgewater MA 02379	0.16	OTHER - LAMP RELATED -HID Lamps

Wisconsin Ballasts W193S6817 Hillendale Dr. Muskego WI; E-Green Recycling Management, 140 Corporate Drive Holtsville NY; Interco, 10 Fox Industrial Dr. Madison IL	0.61	OTHER - LAMP RELATED - Lighting ballasts HID light fixture transformers
National Lamp Recycling 250 Main St East Windsor CT 06088	0.064	OTHER - LAMP RELATED - non PCB lighting ballasts

OTHER – MISCELLANEOUS

Miller Environmental 169 Stone Castle Rd Rock Tavern NY 12575	1.6	OTHER - MISC. - Petroleum Distillates
Veolia ES Technical Solutions 90 Pleasant Street West Bridgewater MA 02379	0.056	OTHER - MISC. - small PCB capacitors
Safety Kleen 1502 E. Villa St. 2nd Floor Elgin, IL 60120	0.1124	OTHER - MISC. - Spent Mineral Spirits Solvents
G&S Motor Equip 1800 Harison Ave Kearny NJ	3.9	OTHER - MISC. - used natural gas piping (nonhaz)
Safety Kleen 1502 E. Villa St. 2nd Floor Elgin, IL 60120	0.095	OTHER - MISC. - Aqueous Paint Cleaner
Miller Environmental, Clean Earth 304 Towpath LN Fort Edward NY 12828	17.5	OTHER - MISC. - CONTAMINATED SOIL
Miller Environmental and Tradebe T&R Northeast 50 Cross St Bridgeport CT 06610	3.9	OTHER - MISC. - corrosive concrete impacted water
Miller Environmental Fairless Landfill Morrisville PA 19067	0.3	OTHER - MISC. - Friable Asbestos
TCL of NY LLC Coeymans NY 21143	5.9	OTHER - MISC. - non PCB transformer oil
Trans-Waste Inc. Fairless Landfill Morrisville PA 19067	3	OTHER - MISC. - Nonfriable asbestos
BrittNgraff 279 Broadway Port Ewen NY 12466	0.198	OTHER - MISC. - PROPANE TANKS
Rensselaer Iron & Steel 35 Riverside Ave Rensselaer NY 12144	8	OTHER - MISC. - PROPANE TANKS
Clean Earth 21 Church Rd Hatfield PA 19440	24.5	OTHER - MISC. - Water Based Ink

Luzon Environmental Services 1246 Glen Vild Rd Woodridge NY 12789	1	OTHER - OTHER - MISC. - oily debris from petroleum spill remediation sites
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OTHER – WASTE FUEL

Advanced Liquid Recycling 628 Saratoga St, Cohoes, NY 12047	1.6
EnviroWaste Oil Recovery 279 US-6, Mahopac, NY 10541	28.172
Luzon Environmental Services 1246 Glen Vild Rd Woodridge NY 12789	17
Miller Environmental 169 Stone Castle Rd Rock Tavern NY 12575	0.08
Sheldon Oil Services Inc. 1005 Route 9 Castleton on Hudson NY 12033	5.72
Starr Collision & Auto Body Route 9W Lake Katrine NY	0.08

REGULATED RECYCLING – TIN

The Conti Group 1661 46th St Brooklyn NY 11204	39.91
West Kingston Recycling 642 Abeel St, Kingston, NY 12401	31.66
CANOS Recycling 1083 Kings Hwy, Saugerties, NY 12477	71.13

REGULATED RECYCLING – MIXED #3-#7 PLASTICS

EFS Plastic 5788 ine84 Listowel ON Canada	18.31
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REGULATED RECYCLING – BEVERAGE CONTAINERS (ALUMINUM)

Envipco P.O. BOX 5046 New Britan CT 06050	4.38
TOMRA 31 Opus Blvd Schenectady, NY 12306	7

REGULATED RECYCLING – BEVERAGE CONTAINERS (MIXED TYPES UNSPECIFIED)

<i>Bottle Depot 441 Rt 9W Port Ewen NY</i>	7.4
<i>Bottles for Bucks 2011 Rt 9W Milton NY 12547</i>	0.692
<i>Boy Scouts of America (unspecified)</i>	53.12
<i>Cast Aside to Survive Rosendale NY</i>	10
<i>CLYNK 202 Glenville Industrial Park Suite D Scotia NY 12302</i>	1477.04
<i>Craft Guild Distributors 12 S Putt Corners Rd #1602 New Paltz, NY 12561</i>	5.1
<i>E.W.G. Glass Recovery & Recycle Corp. P.O. BOX 313005 Jamaica NY 11431</i>	2.079
<i>Envipco P.O. BOX 5046 New Britan CT 06050</i>	5.77
<i>Gasko & Meyer 6636 NY-52, Lake Huntington, NY 12752</i>	4.76
<i>GDB International Inc. 1 Home News Row New Brunswick NJ 08901</i>	36.78
<i>Manhattan Beer Distributors 20 Dunnigan Drive Suffern, NY 10901;</i>	18.5
<i>Manhattan Beer Distributors 975 East 149th St Bronx NY 10455,</i>	21.9
<i>Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12602</i>	209.37
<i>TOMRA Collections Solutions 5923 Loomis Rd Farmington NY 14425</i>	73.6
<i>TOMRA North America PO Box 200192 Pittsburgh, PA 15251-0192</i>	241.34
<i>Various Locations Unspecified</i>	1
The Conti Group 1661 46th St Brooklyn NY 11204	21.32
West Kingston Recycling	20.79
CANOS Recycling Saugerties	24.31
Bottle Depot PO BOX 142 Circleville NY 10919	0.31
A1 Bottle Return 85 Murray Street Kingston NY 12401	1.16

REGULATED RECYCLING - BEVERAGE CONTAINERS - (PETE PLASTIC)

<i>Envipco P.O. BOX 5046 New Britan CT 06050</i>	0.3
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TOMRA 31 Opus Blvd Schenectady, NY 12306	9
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REGULATED RECYCLING - CORRUGATED CARDBOARD

American Paper 556 N. State Rd Briarcliff Manor, NY 10510	60.66
Bozzotos Inc. 275 School house Rd Cheshire CT 06410	14.51
C& S Wholesale Grocers Inc. 500 North St, Windsor Locks, CT 06096	156
Cascades 510 S Main Street Mechanicville NY 12118	1553.488
Cascades/ Metro Retail Recycling Services 4001 Packard Rd Niagara Falls, NY 14303	5.5
Cellmark Distribution Center	8.9
GP Harmon 1 Jericho Plaza Suite 204 Jericho, NY 11753	619.7
J.C. Paper 57 Fulton St. Poughkeepsie NY 12603	12.74
N&V International 40 Ramland Rd Orangeburgh NY 10962	1050
Raymour Monmouth Junction Distribution Center 85 Culver Rd Monmouth Junction NJ 08852	1
Republic Services 508 Fishkill Ave Beacon NY 12508	297.3
Sonoco Recycling 1 North 2nd Street Hartsville South Carolina 29550	887.03
Sullivan C&D 100 North Street Monticello NY 12701	1.68
Wallkill Correctional Facility - 50 McKendrick Rd Wallkill NY 12589	13.56
West Rock 52 Industrial Dr Syracuse NY 13204	291.2
West Rock Recycling- 53 Industrial Drive Syracuse, NY 13204 City Fibres- P.O. Box 1222 Lockport, NY 14095	8.65
Westrock 504 Thrasher St. Norcross, GA 30071	172
Westrock, 53 Industrial Pkwy, Syracuse, NY 13204	4318
JC Paper Co. 57 Fulton St Poughkeepsie NY 12601	1034.6
The Yorkshire Group 150 Rivers Edge Unit 342 Medord MA 02155	1070.85

Suburban Carting 566 North Road Briarcliff Manor, NY 10591	1001.84
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REGULATED RECYCLING - GLASS

<i>Cascades 510 S Main Street Mechanicville NY 12118</i>	0.245
<i>Craft Beer Guild Distributors 12 South Putt Corners Rd New Paltz 12561,</i>	0.11
<i>E.W.G. Glass Recovery & Recycle Corp. P.O. BOX 313005 Jamaica NY 11431</i>	1.7
<i>Envipco P.O. BOX 5046 New Britan CT 06050</i>	2.46
<i>Gasko & meyer Inc 6639 State Route 52 Lake Huntington NY 12752,</i>	0.19
<i>Manhattan Beer Distributors 975 East 149th St Bronx NY 10455,</i>	16.9
<i>Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12602</i>	1644.3
<i>TOMRA 31 Opus Blvd Schenectady, NY 12306</i>	16
Republic Services 508 Fishkill Ave Beacon NY 12508	389.06
Greene County Solid Waste Management - 1181 NY 385 Catskill NY 12414	145.69

REGULATED RECYCLING – HDPE PLASTIC

The Conti Group 1661 46th St Brooklyn NY 11204	44.05
Haycore 3144 Gregoire Rd Russell, ON Canada	20.04
Ekman 1608 Rt 88 West Brick NJ 08724	64.92

REGULATED RECYCLING – MIXED PAPER

<i>American Fiber Essity Papermill 1 River St South Glens Falls NY 12803</i>	252.23
<i>City Fibres, Inc. P.O. Box 1222 Lockport, NY 14095</i>	2.93
<i>Iron Mountain 100 Industrial Dr Jersey City NJ 7305</i>	278.34
<i>ProShred 164 Montgomery Street Albany, NY 12207 (Note: out of business as of 2023)</i>	30

<i>Raymour Monmouth Junction Distribution Center 85 Culver Rd Monmouth Junction NJ 08852</i>	<i>0.75</i>
<i>Republic Services 508 Fishkill Ave Beacon NY 12508</i>	<i>139</i>
<i>Secure Scan 1060 Broadway Albany NY 12204</i>	<i>18.7</i>
<i>Shred It 82 Rotterdam Industrial Park, Rotterdam, NY 12306</i>	<i>0.33</i>
<i>Wallkill Correctional Facility - 50 McKendrick Rd Wallkill NY 12589</i>	<i>7.43</i>
<i>Waste Mgmt. 6255 Sheridan Drive Suite 412 Williamsville NY</i>	<i>120</i>
<i>Westrock 504 Thrasher St. Norcross, GA 30071</i>	<i>0.7</i>

REGULATED RECYCLING – PETE PLASTIC

Haycore 3144 Gregoire Rd Russell, ON Canada	20.42
Ekman 1608 Rt 88 West Brick NJ 08724	84.78
The Conti Group 1661 46th St Brooklyn NY 11204	42.05

REGULATED RECYCLING – SINGLE STREAM RECYCLING SSR

<i>Republic Services 508 Fishkill Ave Beacon NY 12508</i>	<i>1860.65</i>
<i>Greene County Solid Waste Management - 1181 NY 385 Catskill NY 12414</i>	<i>6502.53</i>
<i>Orange County Transfer Station 1 - 21 Training Center Ln New Hampton NY 10958</i>	<i>117.07</i>
<i>Sonoco Recycling 1 North 2nd Street Hartsville South Carolina 29550</i>	<i>186.25</i>
<i>Twin Bridges 417 NY 146 Halfmoon NY 12065</i>	<i>954.47</i>
<i>Tyler's 66 Tyler's Lane Cottekill NY 12419</i>	<i>33.6</i>
<i>RVH Logistics 434 Sodeman Rd Middle Grove NY 12850</i>	<i>2</i>
<i>Cascades 510 S Main Street Mechanicville NY 12118</i>	<i>0.583</i>

REUSE – MISCELLANEOUS

<i>G2 Revolution 14601 Cty Rd 212, Findlay, OH, 45840</i>	0.1298	<i>REUSE - MISC. - beauty products misc.</i>
<i>Backhauled to Retail Distribution Center</i>	0.25	<i>REUSE - MISC. - EPS Expanded Polystyrene Foam</i>
<i>Mauser Packaging, Addison IL 60101</i>	1	<i>REUSE - MISC. - PLASTIC AND METAL TOTES</i>
<i>Backhauled to Retail Distribution Center</i>	0.1732	<i>REUSE - MISC. - plastic EAS tags</i>
<i>Backhauled to Retail Distribution Center</i>	4.312	<i>REUSE - MISC. - plastic garment hangers</i>
<i>Backhauled to Retail Distribution Center</i>	0.017	<i>REUSE - MISC. - plastic gift cards</i>
<i>Lamela Sanitation</i>	25	<i>REUSE (FURNITURE, ETC.)</i>
<i>Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561 (Onsite)</i>	30.3	<i>REUSE (FURNITURE, ETC.)</i>
<i>Various Locations Unspecified (liquidated retail store merchandise)</i>	5.15	<i>REUSE (FURNITURE, ETC.)</i>
<i>Backhauled to Distribution Center(s) Unspecified</i>	188.3	<i>REUSE (WOOD PALLETS)</i>
<i>BFI Waste SYS of DBA Republic and Home Depot. Address: 601 NeelyTown Road, Montgomery, NY 12549</i>	1.41	<i>REUSE (WOOD PALLETS)</i>
<i>Bozzotos Inc. 275 School house Rd Cheshire CT 06410</i>	25.14	<i>REUSE (WOOD PALLETS)</i>
<i>C& S Wholesale Grocers Inc. 500 North St, Windsor Locks, CT 06096</i>	34.48	<i>REUSE (WOOD PALLETS)</i>
<i>Mannese - 2007 RT 9W Milton NY 12547</i>	9.1	<i>REUSE (WOOD PALLETS)</i>
<i>Power Pallet 4715 State Highway 30 Amsterdam NY 12010</i>	2.5	<i>REUSE (WOOD PALLETS)</i>
<i>Regional Retail Distribution Center(s) Unspecified</i>	105.532	<i>REUSE (WOOD PALLETS)</i>

<i>Valley Pallets Recyclers 155 MAHONEY RD MILTON, NY 12547</i>	<i>1.75</i>	<i>REUSE (WOOD PALLETS)</i>
<i>Vendor Exchange Unspecified</i>	<i>3.25</i>	<i>REUSE (WOOD PALLETS)</i>
<i>Wakefern Food Corp, Keasbey, NJ</i>	<i>1002</i>	<i>REUSE (WOOD PALLETS)</i>

SCRAP METAL (FERROUS METAL)

<i>Ben Weitzman Recycling 15 W Main St, Owego, NY 13827</i>	<i>0.5</i>
<i>Double Win Baltimore MD, 9200 W Marlboro Rd Farmville NC 27828</i>	<i>86</i>
<i>E-Green Recycling Management, 140 Corporate Drive Hottsville NY</i>	<i>0.12</i>
<i>G&S Motor Equip 1800 Harrison Ave Kearny NJ and Baroni Recycling Pleasant Valley NY and TCI of NY LLC Coeymans NY 21143</i>	<i>382</i>
<i>George Apkin & Sons 17 Depot St Adams MA 01220</i>	<i>86</i>
<i>Nathan H. Kelman Inc. 41 Euclid St. Cohoes NY 12047</i>	<i>706</i>
<i>Rensselaer Iron & Steel 35 Riverside Ave Rensselaer NY 12144</i>	<i>6381</i>
<i>SCRAP Connection 4 Stone Creek Drive Suite 1 Ithaca NY 14850</i>	<i>86</i>
<i>Waste Management 64 North Genesee Street Utica, NY 13503</i>	<i>4.04</i>

SCRAP METAL (MIXED TYPES UNSPECIFIED)

<i>Baroni Scrap 20 Vankleck Dr Poughkeepsie NY</i>	<i>4172.11</i>
<i>Ben Weitsman of Albany 300 Smith Blvd Albany NY 12202</i>	<i>655</i>
<i>Ben Weitzman Recycling 15 W Main St, Owego, NY 13827</i>	<i>23</i>
<i>Eastern Metal Recycling 201 North Front Street Camden NJ 08102</i>	<i>655</i>
<i>Middletown Carting 83-85 Industrial Place Ext Middletown NY 10940</i>	<i>3.33</i>
<i>Orange County Transfer Station 1 - 21 Training Center Ln New Hampton NY 10958</i>	<i>5.41</i>
<i>Otsego Auto Crusher, Oneonta, NY 13820</i>	<i>2.09</i>

<i>RVH Logistics 434 Sodeman Rd Middle Grove NY 12850</i>	<i>210</i>
<i>TAM Enterprises PO Box 2234 Kingston, NY 12402</i>	<i>82.58</i>

SCRAP METAL (NONFERROUS METAL)

<i>Baroni Recycling 20 Van Kleeck Dr Poughkeepsie, NY 12601</i>	<i>19.66</i>
<i>CellMark Recycling 80 Washington Street Norwalk, CT 06854</i>	<i>3.8</i>
<i>DoubleWin Baltimore MD 9200 Marlboro Rd Farmville NC 27828</i>	<i>40</i>
<i>Nathan H. Kelman Inc. 41 Euclid St. Cohoes NY 12047</i>	<i>35</i>
<i>Prime Materials Recovery 99 E River Dr East Hartford CT 06108</i>	<i>627</i>
<i>Wallkill Correctional Facility - 50 McKendrick Rd Wallkill NY 12589</i>	<i>4.46</i>

TEXTILE RECYCLING

<i>Ben & Gracies Thrift Store 202 Manchester Rd Poughkeepsie NY 12603,</i>	<i>31.58</i>
<i>Ben & Gracies Thrift Store 7270 S Broadway Red Hook NY 12571</i>	<i>31.58</i>
<i>St Pauly Textile 1067 Gateway Drive Farmington NY 14425</i>	<i>58.97</i>
<i>Textile Recovery Services Inc. 70 Crossway E, Bohemia, NY 11716</i>	<i>50</i>
<i>Ulster County ASPCA 20 Wiedy Dr, Kingston, NY 12401</i>	<i>0.15</i>
<i>USAgain LLC 18 Sargent Place Mount Vernon NY 10573</i>	<i>57.3</i>
<i>Wallkill Correctional Facility - 50 McKendrick Rd Wallkill NY 12589</i>	<i>3.11</i>
<i>Whitehouse Schapiro LLC 7200 Standard Dr Hanover MD 21076</i>	<i>63.15</i>
<i>YESS Trading LLC 1701 E US Highway 281 Hidalgo TX 785572,</i>	<i>63.15</i>

TIRE RECYCLING

<i>Ben Tire 3401 Tremley Point Rd #6, Linden, NJ 07036</i>	<i>6.15</i>
<i>Ben Weitzman Recycling 15 W Main St, Owego, NY 13827</i>	<i>0.35</i>

Bob's Tire Co. 55 Brook St, New Bedford, MA 02746	19.11
Casings Tire Inc. 169 Maple Ave Catskill NY 12414	952.84
CRM Co. 1414 Norwich Rd Plainfield CT 06374	54.15
Custom Bandag - 123 Dupont Ave, Newburgh, NY 12550	0.66
Empire Tire of Edgewater 1414 Norwich Rd Plainfield CT 06374	5.72
Lakin Tire 220 Frontage Road West Haven CT 06516	404.26
SGS 1501 College Ave Niagara Falls NY 14305	74.99
Stone Ridge Tire 8 Hillside Dr, Stone Ridge, NY 12484	0.824
Tire Discount 76 Dolson Avenue Middletown, NY 10940	1.2

2.2.1 (2023) Waste & Recyclables Materials Summary by Category

The summary presented in this section represents survey results collected through the Ulster County Annual Waste & Recycling Reports, a survey conducted with over 275 large waste generators that operate within and outside of the planning unit. All weights presented below are reported as tons.

Figure 25. 2023 Annual Waste & Recycling Report Summary by Categories

MATERIAL	TOTALS		CATEGORY
1. MSW	107015.96	181,843.56	DISPOSAL
2. C&D DEBRIS	61616.75		
3. BIOSOLIDS	13210.85		
4. Single Stream Recyclables	10822.98	27,939.35	RESIDENTIAL & COMMERCIAL RECYCLING
5. Mixed Paper (all grades)	1984.348		

6. Corrugated Cardboard	11045.261		
7. Container glass	566.64		
8. Dual Stream Recyclables (comingled plastic, glass, metal)	325.48		
9. Beverage Containers (5 cent deposit)	3194.6388		
10. Film Plastics	180.62	180.62	FILM PLASTIC RECYCLING
11. Electronics (all types)	336.306	336.306	ELECTRONICS RECYCLING
12. Clothing, Shoes, & Textiles	1264.3565	1264.3565	TEXTILE RECYCLING
13. Tires	1777.18	1777.18	TIRE RECYCLING
14. Furniture, Misc. Bulk items (REUSE)	145.08	1566.36	MISC. REUSE & DONATION
15. Wood Pallets (REUSE)	1421.28		
16. Fluorescent Lighting	34.92518	2102.65	MISC. HAZARDOUS WASTES OR SENSITIVE MATERIALS
17. Batteries (all types)	328.273		
18. Antifreeze	159.363		
19. Motor Oil	457.071		
20. Oil Filters	42.149		
21. Waste Fuels	53.78		
22. Propane Tanks	10.445		
23. Bulk Liquids	39.7362		

OTHER HHW Misc.	161.0705		
PAINTCARE	58.7		
24. Pharmaceutical Waste (medications)	3.462		
25. Medical SHARPS (syringes, needles, etc.)	53.23		
26. Contaminated Soil	700.45		
27. Bulk metal	3435.03	12462.77	SCRAP METAL RECYCLING
28. Ferrous metal	8212.46		
29. Nonferrous metal	687.29		
30. Freon appliances (air conditioners, refrigerators, etc.)	127.99		
31. Food Scraps (COMPOSTING)	7333.792	21,386.18	ORGANICS RECYCLING
32. Food Scraps (ANIMAL FEED)	119.33		
33. Food Donations	788.26		
34. Fats, Oils, Grease	362.582		
35. Yard Wastes (Brush, Branches, Trees, Stumps)	6767.24		
36. Wood Pallets (for composting)	132		
37. Leaves/Grass	1411.36		
38. Animal Manure	612		

UCRRA	Animal	12.3		
Mortalities				
OTHER	UCRRA	3847.3		
BIOSOLIDS				
COMPOSTING				
39. Compost Produced		9454		
(cy or tons)				
40. Brick, Concrete,		2748.24	13889.07	C & D RECYCLING
Masonry Materials				& RECOVERY
41. Plaster, drywall,		0		
non-asbestos insulation,				
etc.				
42. Clean		0		
Uncontaminated Soil &				
Rock				
Other C& D Recycling		11140.83		
43. Other (specify type)		43.88	51.6	OTHER
44. Other (specify type)		7.717		

2.2.2 (2023) Waste & Recyclables Graphs Summary

Figure 26. 2023 Annual Waste & Recycling Report Graph of Regulated Recyclable Materials by Category

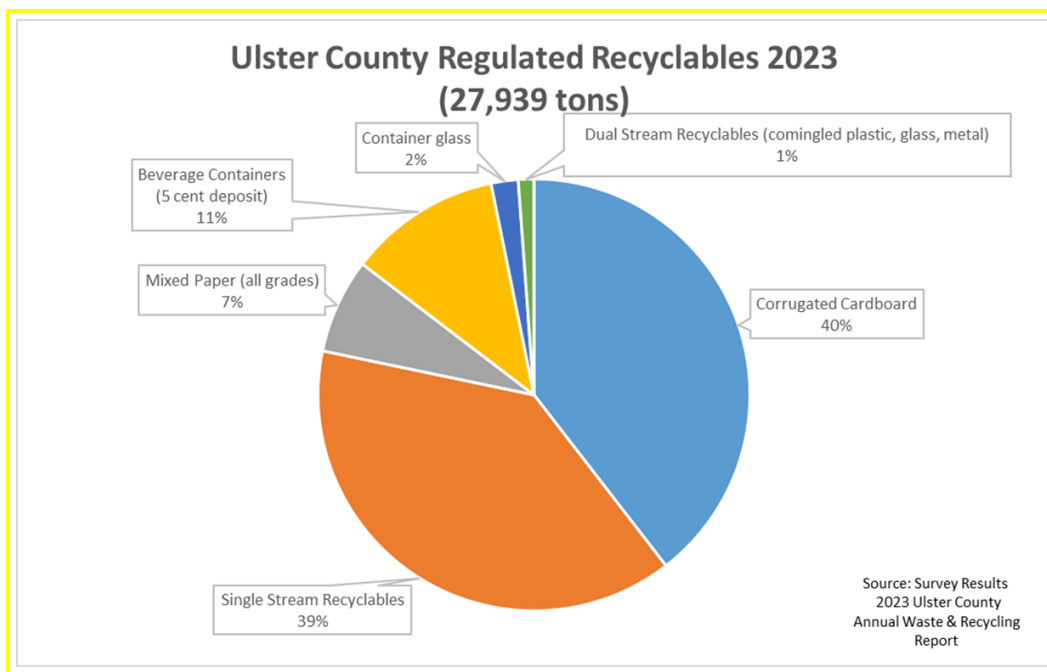


Figure 27. 2023 Annual Waste & Recycling Report Graph of Organics Recovery & Recycling by Category

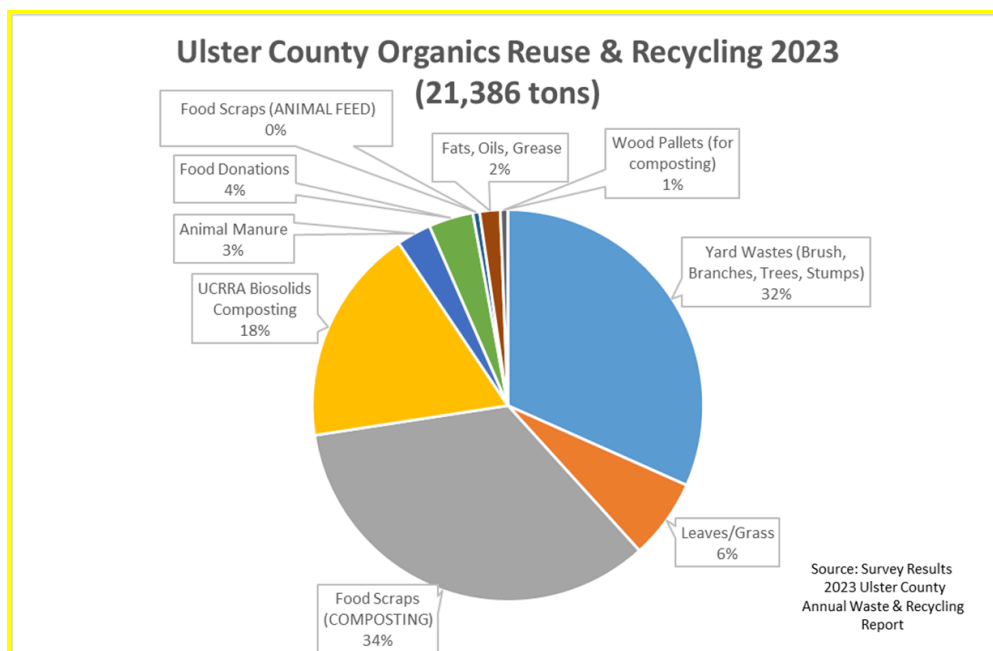
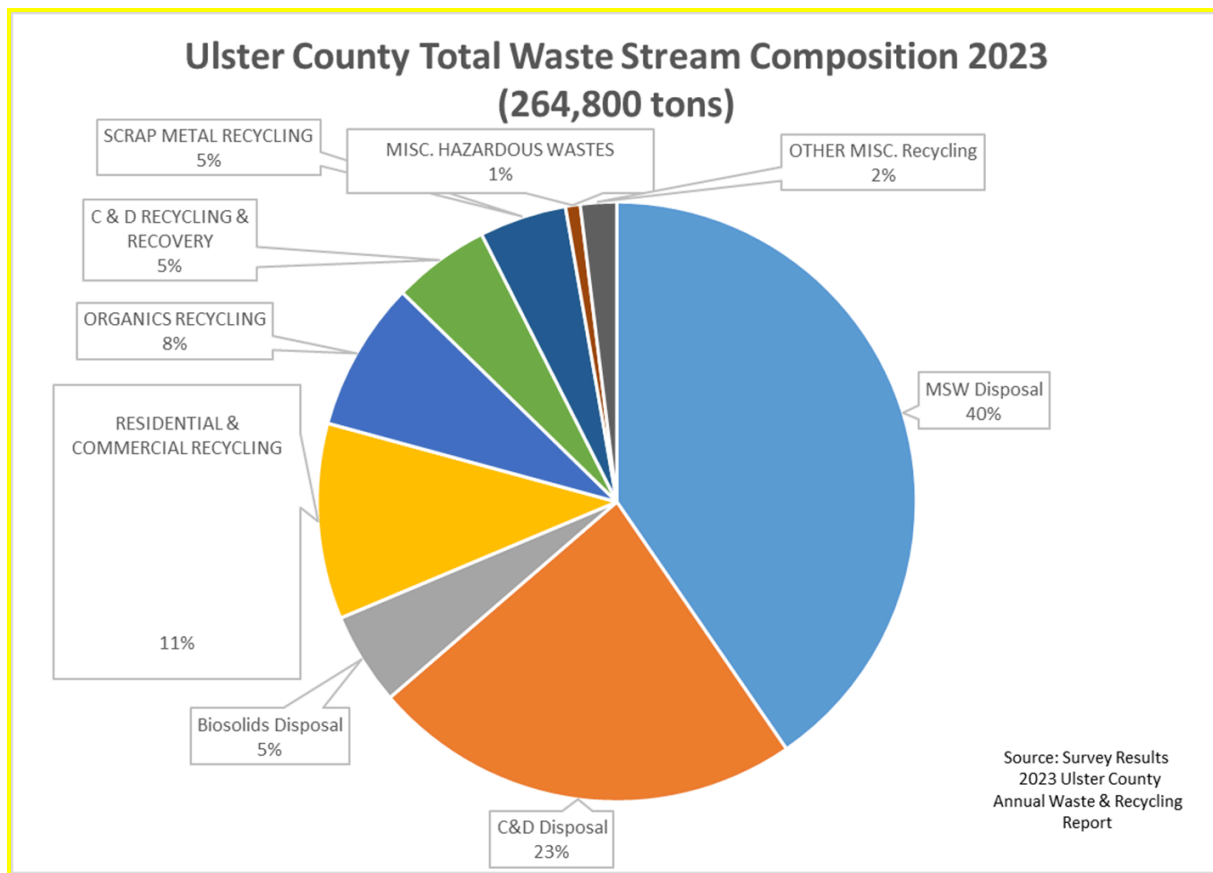


Figure 28. 2023 Annual Waste & Recycling Report Graph of Total Waste Stream by Category



2.2.3 (2023) Waste & Recyclables Summary by Final Disposal & Recycling Destinations

The summary presented below represents survey results collected through the 2023 Ulster County Annual Waste & Recycling Report. All weights are reported in tons. Entries that are highlighted yellow represent waste processed through the Ulster County Resource Recovery Agency programs and services.

Figure 29. 2023 Annual Waste & Recycling Report Summary by Category with Final Disposal Destination Detail

The summary presented below represents survey results collected through the 2023 Ulster County Annual Waste & Recycling Report. All weights are reported in TONS. Entries that are highlighted yellow represent waste processed through UCRRA programs and services.

BIOSOLIDS (DISPOSAL)

Dawes Septic & Repairs 1993 State Rt 32 Modena NY 12548	11,589.00
Earth Care 80 Dennings Ave, Beacon, NY 12508	29.60
ProSeptic LLC 150 Noxon Rd Poughkeepsie NY	49.69

CONSTRUCTION & DEMOLITION DEBRIS (DISPOSAL)

Chemung County Landfill 1488 CTY RT 60 Lowman NY	20,920.50
Greene County Solid Waste Management 1181 NY 385 Catskill NY 12414	67.03
Interstate Waste Services 89 Black Meadow Rd Chester NY 10918	43.99
Keystone Sanitary Landfill 249 Dunham Dr Dunmore PA 18512	2,374.00
Middletown Carting 83-85 Industrial Place Ext. Middletown NY 10940	283.09
Seneca Meadows Landfill 1786 Saloman Road Waterloo NY 13165	35,851.84
Seneca Meadows Landfill 1786 Saloman Road Waterloo NY 13165	2,076.30

CONSTRUCTION & DEMOLITION DEBRIS (RECYCLING)

Argenio Brothers Inc. 14 Argenio Dr New Windsor NY 12553	33.54
Profex Inc. 264 North Plank Rd Newburgh NY	1,100.00
Recycle Depot 230 Van Wagner Rd, Poughkeepsie, NY 12603	142.10
Recycling Crushing Technology 27 Commerce Street Poughkeepsie NY 12603	918.57
Taylor Montgomery LLC 350 Neelytown Road Montgomery NY 12549	597.62

Town of Esopus MRDC 70 Westshore Drive West Park NY 12493	7.01
Ulster County Dept Public Works 317 Shamrock Lane Kingston NY	10,428.00
Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY 12401	662.00

ELECTRONICS RECYCLING

"Mike Fuegman & Co. Ravena NY"	0.10
Advanced Recovery Inc 50 Grafton Avenue Newark NJ 07104	1.47
Backhauled then sent to "G2 Revolution" 14601 Cty Rd 212, Findlay, OH, 45840	0.09
E-Green Recycling Management 140 Corporate Drive Holtsville NY. And Interco Metatronics Recycling 10 Fox Industrial Drive Madison IL	1.90
Electronics Recycling International Inc. 510 Ryerson Rd Suite 5 Lincoln Park NJ 07035	59.22
Electronics Recycling International Inc., sent to ERI Direct 3100 Reeves Rd Plainfield, IN 46168	3.34
ERI Direct - Electronics Recyclers International 89 R Cross Street Holliston MA 01746	147.71
EWASTE+ 7318 Victor Mendon Rd Victor NY 14564	112.60
National Lamp Recycling Inc. 250 Main Street East Windsor CT 06088	0.34
UNIVAR Solutions 1101 New Milford Rd Morrisville PA 19067	0.90
Upcycle - 39 Plymouth St Fairfield NJ 07004	6.50
Veolia ES Technical Solutions 90 Pleasant St West Bridgewater MA	2.30

FILM PLASTIC RECYCLING

Backhauled to ALDIS unspecified distribution center	2.68
Backhauled to Distribution Center LOWE'S PLAINFIELD, CT RDC 1421 (1421 LOWE'S WAY PLAINFIELD, CT 6374)	1.20
GP Harmon 1 Jericho Plaza Suite 204 Jericho NY 11753	6.50
Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12601	97.00
Poly-America LP Westminister SC	5.83
Raymour & Flannigan Distribution Centers in Monmouth Junction and Gibbstown NJ and Liverpool NY	1.00
TREX Co. 160 Exeter Dr Winchester VA 22603-8605	59.78

HAZARDOUS WASTE – ANTIFREEZE

EnviroWaste Oil Recovery 279 US-6, Mahopac, NY 10541	29.46
Advanced Oil Recycling PO BOX 864 Milford PA 18337	0.83
Clean Harbors 4879 Spring Grove Ave, Cincinnati, OH 45232	1.71
Miller Environmental Tradebe T&R Northeast 50 Cross Street Bridgeport CT 06610	1.82
Sheldon Oil Service 1005 US 9 Castleton On Hudson	1.00
Solvents & Petroleum Service, Inc. 1405 Brewerton Rd, Syracuse, NY 13208	11.27
Tonys Power Equipment 2034 Route 32 S Modena NY 12548	0.02
UNIVAR Solutions 1101 New Milford Rd Morrisville PA 19067	111.30
Westchester Waste Oil 219 Woodcock Mtn Rd Washingtonville NY 10992	0.50

HAZARDOUS WASTE - BATTERY RECYCLING - LEAD ACID, LITHIUM ION, ALL TYPES

Backhauled to Distribution Center LOWE'S PLAINFIELD, CT RDC 1421 (1421 LOWE'S WAY PLAINFIELD, CT 6374) then Call 2 Recycle Program	1.16
Backhauled to Distribution Center then sent to "Cirba Solutions"	0.12
BRIM RECYCLE 23 NY 211 Cuddleback NY 12729	0.48
BRME LLC, 420 South River St Calhoun GA 30701	0.51
BWT Delaware 350 Anchormill Rd New Castle DE 19720	18.10
Call2Recycle Program address unspecified	0.06
Continental Battery Systems 1 Dodge Drive West Caldwell NJ 07006	12.00
East Penn Manufacturing 102 Deker Rd Lyon Station PA 19536	27.00
Easy Pack Battery Solutions 430 Holtz Dr Wixom MA 483993	0.08
Heritage Environmental 10 Apollo Dr Albany NY 12205	0.30
NAPA Auto Parts - North East Parts Group 5764 US-209, Kerhonkson, NY 12446	0.40
NAPA Auto Parts - Rip's Auto Parts Inc 238 Ulster Ave, Saugerties, NY 12477	0.52
Nathan H Kelman Inc. 41 Enclid St Cohoes NY 12047	41.00
National Lamp Recycling Inc. 250 Main Street East Windsor CT 06088	0.17
North Pacific Technologies 687-1313 E Maple St Bellingham WA USA 98225	80.00
Rever Smelting 65 Ballard Rd Middletown NY 10941	0.50

HAZARDOUS WASTE - FLUORESCENT LAMP RECYCLING

AGENCY BULBS sent to Clean Harbors EL Dorado, LLC 309 American Circle, EL Dorado, AR 71730 AND Spring Grove Resource Recovery, Inc 4879 Spring Grove, Ave, Cincinnati, OH 45232	0.56
American Lamp Recycling 55 Riverview Dr Marlboro NY 12542	9.52
Backhauled then sent to "G2 Revolution" 14601 City Rd 212, Findlay, OH, 45840	0.04
Backhauled to Distribution Center LOWE'S PLAINFIELD, CT RDC 1421 (1421 LOWE'S WAY PLAINFIELD, CT 6374)	0.20
Bulb Cycle Sandiego CA	19.09
Clean Earth Environmental 933 1st Ave Suite 200, King of Prussia, PA 19406	0.20
Clean Harbors	0.95
Heritage Environmental 10 Apollo Dr Albany NY 12205	0.20
HHW BULBS sent to Clean Harbors EL Dorado, LLC 309 American Circle, EL Dorado, AR 71730 AND Spring Grove Resource Recovery, Inc 4879 Spring Grove, Ave,	1.15
National Lamp Recycling Inc. 250 Main Street East Windsor CT 06088	0.41
Veolia ES Technical Solutions 90 Pleasant St West Bridgewater MA	2.60
Willdan 123 Rombout Ave Beacon NY 12508	0.01

HAZARDOUS WASTE – MOTOR OIL

Advanced Oil Recovery P.O. BOX 864 Milford PA 1837	18.09
Clean Earth Environmental 933 1st Ave Suite 200, King of Prussia, PA 19406	0.22

EnviroWaste Oil Recovery 279 US-6, Mahopac, NY 10541	210.94
Lonstein Motors 44 Canal St Ellenville	Unspecified amount
Miller Environmental Tradebe T&R Northeast 50 Cross Street Bridgeport CT 06610	15.76
Safety Kleen 17 Green Mountain Drive Cohoes NY 12047	0.61
Sheldon Oil Services Inc 1005 US-9, Castleton-On-Hudson, NY 12033	196.69
Spring Grove Resource Recovery Inc Cincinnati OH	4.06
Starr Collision & Auto Body Route 9W Lake Katrine NY	0.66
Tonys Power Equipment 2034 Route 32 S Modena NY 12548	0.14
West Central Environmental Corp PO BOX 83 Rensselaer NY 12144	0.10
Westchester Waste Oil 219 Woodcock Mtn Rd Washingtonville NY 10992	1.00

HAZARDOUS WASTE – OIL FILTERS

Clean Earth 2337 N Penn Rd Hatfield PA 19440	0.18
EnviroWaste Oil Recovery 279 US-6, Mahopac, NY 10541	19.92
Planet Earth Recycling & Recovery 3280 Sunrise Hywy 303 Wantagh NY 11793	0.30
Safety Kleen Cranston RI	5.72
Sheldon Oil Services Inc 1005 US-9, Castleton-On-Hudson, NY 12033, PO BOX 839 Nassau NY 12123	9.46
Tonys Power Equipment 2034 Route 32 S Modena NY 12548	0.014
UNIVAR Solutions 1101 New Milford Rd Morrisville PA 19067	7.56

Westchester Waste Oil 219 Woodcock Mtn Rd Washingtonville NY 10992	1.00
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HAZARDOUS WASTE - OTHER MISC OR BULK LIQUIDS

HHW sent to Clean Harbors Reidsville, LLC 208 Watlington Industrial Dr, Reidsville, NC 27320 AND Spring Grove Resource Recovery, Inc 4879 Spring Grove, Ave, Cincinnati, OH 45232	0.10
Ballasts sent to Grainger Ballast Recycling Kit 400 Bordentown Hedding Rd Bordentown NJ 08505	0.33
Contaminated Soil sent to Colonie Landfill 4 Arrowhead Ln, Cohoes, NY 12047	700.45
flammable liquids sent to ACV Environmental Cycle Chem Inc 217 S. First Street Elizabeth NJ 07206	0.14
HHW AEROSOLS sent to Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905	2.08
HHW EPOXY RESINS/ADHESIVES sent to Clean Harbors Tennessee, LLC 2815 Old State Highway 11, Greenbrier, TN 37073 AND Clean Harbors Chattanooga, LLC 3300 Cummings Rd, Chattanooga, TN 37419	6.63
HHW LABPACK AMMONIA PRODUCTS sent to Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905 AND Clean Harbors Reidsville, LLC 208 Watlington Industrial Dr, Reidsville, NC 27320	0.34
HHW LABPACK INORGANIC ACIDS sent to sent to Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905	0.26
HHW LABPACK INORGANIC BASES sent to Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905	0.69
HHW LABPACK ORGANIC ACIDS sent to Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905	0.26

HHW MERCURY DEVICES sent to Spring Grove Resource Recovery, Inc 4879 Spring Grove, Ave, Cincinnati, OH 45232	0.10
HHW PESTICIDES LIQUID sent to sent to Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905	3.83
HHW PESTICIDES SOLID sent to sent to Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905	1.60
lighting ballasts, fixtures, HID transformers sent to Wisconsin Ballasts Hillendale S Muskego WI AND E-Green Recycling 140 Corporate Dr Holtsville NY AND Interco 10 Fox Industrial Drive Madison IL	0.25
mercury containing devices sent to Lighting Resources LLC 498 Park 800 Drive Greenwood IN 46143	0.01
non pcb oil sent to TCI of NY LLC Coeymans NY 21143	158.20
PCB ballasts National Lamp Recycling Inc. 250 Main Street East Windsor CT 06088	0.17
spent powder for coating light fixtures sent to West Central Environmental Corp PO BOX 83 Rensselaer NY 12144	1.00
used decamethylcycllopentasiloxane parts cleaning solvent - .77 tons to Safety Kleen Inc Linden NJ and 0.39 tons to Safety Kleen Cohoes NY	1.16
Veolia ES Technical Solutions 90 Pleasant St West Bridgewater MA	0.30
water based ink sent to Clean Earth	25.00

HAZARDOUS WASTE – PAINT (ALL TYPES)

HHW LATEX PAINT sent to Clean Harbors of Connecticut, Inc 51 Broderick Rd, Bristol, CT 06010	16.80
HHW OIL PAINT sent to Safety-Kleen Systems, Inc 3700 LaGrange Rd, Smithfield, KY 40068	4.93

New York Paint Care Program via Green Sheen, Rotterdam Industrial Park Rotterdam NY	21.00
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HAZARDOUS WASTE – PROPANE TANKS

BrittNgraff 279 Broadway Port Ewen NY 12466	0.05
LP Cylinder 627 Rt 434 Shohola PA 18458	3.00
PARACO Rye Brooke NY	2.40
Rensselaer Iron & Steel 35 Riverside Ave Rensselaer NY 12144	5.00

HAZARDOUS WASTE – WASTE FUELS

Advanced Liquid Recycling 628 Saratoga St, Cohoes, NY 12047	1.40
Clean Harbors 500 Independence Pkwy S La Porte TX 77571	0.42
Luzon Environmental Services 1246 Glen Vild Rd Woodridge NY 12789	36.00
Safety-Kleen Systems, Inc 167 Mill Street, Cranston, RI 02905 AND Safety-Kleen Systems, Inc 3700 LaGrange Rd, Smithfield, KY 40068	8.83
Sheldon Oil Service 1005 US 9 Castleton On Hudson	6.16
Westchester Waste Oil 219 Woodcock Mtn Rd Washingtonville NY 10992	1.00

MEDICAL WASTES – PHARMACEUTICALS

Approved Waste Storage and Hauling Inc 110 Edison Ave. Mt. Vernon, NY 10550	3.40
Cardinal Health 290 County Rd 99 Montgomery NY 12549	Unknown amount

Dutchess County RRA 96 Sand Dock Rd Poughkeepsie NY 12601	0.01
Geriscripts, 200 West Parkway Pequannock NJ	Unknown amount
Pro Core LTC 621 E Brighton Ave Syracuse NY 13210	0.05

MEDICAL WASTES – SHARPS/NEEDLES

Approved Waste Storage and Hauling Inc 110 Edison Ave. Mt. Vernon, NY 10550	17.01
Daniels Health 925 Conroy Place Easton PA 18040	2.70
MED X WASTE 1014 Grand Blvd STE 4, Deer Park, NY 11729	0.24
Stericycle Inc. Rotterdam Industrial Park Bldg 1 Rotterdam NY 12306	33.29

MEDICAL WASTES – OTHER MISC.

MED X WASTE 1014 Grand Blvd STE 4, Deer Park, NY 11729	0.44
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MUNICIPAL SOLID WASTE (DISPOSAL)

Greene County Solid Waste Management 1181 NY 385 Catskill NY 12414	93.78
Orange County Transfer Station 1 21 Training Center Ln New Hampshire NY 10958	90.99
Seneca Meadows Landfill 1786 Saloman Road Waterloo NY 13165	106,831.19

ORGANICS – ANIMAL FEED

Damiani Farms Litchfield CT	2.10
70 Blue Mountain Rd Saugerties NY	5.60
Forsyth Nature Center Kingston NY	52.00
Hetrickdale Farm 69 Hetrick Rd, Bernville, PA 19506	19.02
Location Unspecified	7.50
MMT Cattle Inc 1942 Hickory Hill Rd, Fonda, NY 12068	14.86
The Hudson Valley Farm 30-36 Whitefield Rd Accord NY	4.00

ORGANICS – ANIMAL MANURE COMPOSTING

Community Compost Company 5941 Route 209 Kerhonkson NY 12446	612.00
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ORGANICS – ANIMAL MORTALITY COMPOSTING

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY 12401	12.20
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ORGANICS – BIOSOLIDS COMPOSTING

Rockland County Composting Facility, 400 Torne Valley Road, Hillburn NY 10931	3,259.30
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ORGANICS – FATS, OILS, GREASE

Blue Diamond Septic 357 South Albany Rd Selkirk NY 12158	25.28
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Buffalo Biodiesel 225 Sawyer Ave	Unknown amount
Darling International 825 Wilson Ave Newark NJ 07105	132.90
DarPro Solutions 5601 N Macarthur Blvd Irving TX 75038	45.20
Dawes Septic and Repairs 1993 State Route 32 Modena NY 12548	1.64
Earth Care 99 Maple Grange Rd Vernon NJ 07462	30.54
Enviro-Clean 70 Coy Rd Clintondale NY 12515	5.04
JC Rendering Co. 201 Jackson Rd Frankfort NY 13340	29.22
Liquid Environmental Solutions Auburn NY	21.00
M&O Sanitation 70 Fairview Ave Poughkeepsie NY 12601	9.33
Maine Standard 51 Ingersoll DR Portland ME 04103	2.66
Restaurant Technologies 2250 Pilot Knob Rd Ste 100 Medota Heights MN 55120	3.90
Restaurant Technologies Herman St East Rutherford NJ 07094	12.13
RTI 12962 Collections Dr. Chicago IL 60693	86.70

ORGANICS – FOOD DONATIONS

Feeding America Affiliates	375.06
Food Bank of the Hudson Valley 195 Cornwall on Hudson	38.00
Location Unspecified	87.04
Peoples Place 17 Saint James St Kingston NY 12401	57.66
Regional Food Bank of North Eastern NY 965 Albany Shaker Rd Albany NY 12110	208.57

Rosendale Pantry, Andrews Church of New Paltz, Family of Woodstock New Paltz	3.5
Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561	18.70

ORGANICS – FOOD SCRAP COMPOSTING

Ecoverde Organics 396 Wright Rd, Akron, NY 14001	231.69
Natural Upcycling 1818 Linwood Road, Linwood, NY 14486	23.23
Westchester Ellenville Hospital Inc DBA Ellenville Regional Hospital 10 Healthy Way Ellenville NY 12428	9.36
Church Communities Inc dpa Maple Ridge Bruderhof	15.00
Community Compost Company 5941 Route 209 Kerhonkson NY 12446	359.00
Darling International 825 Wilson Ave Newark NJ 07105	75.00
Greenway Environmental Services 205 Hurds Road Clintondale NY 12515	382.00
Mohonk Mountain House (Smily Brothers Inc) 1000 Mountain Rest Road New Paltz NY 12561	200.00
Napping House Farms Saugerties NY 12477	4.00
Seed Song Farm 160 Esopus Ave Kingston NY	5.60
Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561	31.66
Town of Rochester MRDC 100 Airport Rd Accord NY 12404	1.00
Town of Woodstock 45 Comeau Dr Woodstock NY 12498	0.22
Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY 12401	5,481.10
Woodstock Day School 1430 Glasco Turnpike Saugerties NY 12477	1.00

*Anaerobic Digestion by Ag-Grid Energy LLC (Divert Inc) 312 Granby Road Granville, MA 01034	466.42
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ORGANICS – LEAVES, GRASS CLIPPINGS, ETC.

Church Communities Inc dpa Maple Ridge Bruderhof	10.00
Community Compost Company 5941 Route 209 Kerhonkson NY 12446	900.00
Greenway Environmental Services 205 Hurds Road Clintondale NY 12515	250.00
New Paltz Central School District - Bus Garage & District Wide 196 Main Street New Paltz NY 12561	1.50
Town of Esopus MRDC 70 Westshore Drive West Park NY 12493	4.32
Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561	78.05
Town of Rochester MRDC 100 Airport Rd Accord NY 12404	60.00
Town of Rosendale MRDC 414 Whiteport Road Kingston NY 12401	12.80
Town of Ulster MRDC 584 East Chester St Bypass Kingston NY 12401	150.00
Woodstock Day School 1430 Glasco Turnpike Saugerties NY 12477	2.00

ORGANICS – YARD WASTE, BRUSH, WOODCHIPS, CLEAN WOOD, ETC.

Community Compost Company 5941 Route 209 Kerhonkson NY 12446	300.00
Greenway Environmental Services 205 Hurds Road Clintondale NY 12515	453.00
New Paltz Central School District - Bus Garage & District Wide 196 Main Street New Paltz NY 12561	1.50

Recycle Depot 230 Van Wagner Rd, Poughkeepsie, NY 12603	158.20
Tantillo Landscaping Gardiner NY	3.75
Town of Esopus MRDC 70 Westshore Drive West Park NY 12493	6.23
Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561	257.00
Town of Ulster MRDC 584 East Chester St Bypass Kingston NY 12401	629.00
Town of Woodstock 45 Comeau Dr Woodstock NY 12498	3.30
Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY 12401	5,027.42

REGULATED RECYCLING – CORRUGATED CARDBOARD

Backhauled to a Staples Distribution Center, then recycled by "Cellmark"	8.95
Backhauled to Distribution Center LOWE'S PLAINFIELD, CT RDC 1421 (1421 LOWE'S WAY PLAINFIELD, CT 6374)	174.82
Backhauled to Distribution Center then recycled with WestRock 53 Industrial Drive Syracuse NY 13204	291.20
Bozzuto's Inc. 275 Schoolhouse Road Cheshire CT 06410	13.33
C&S Wholesale Grocers 10 Optical Ave Keene NH 03431	25.00
Cascades Recovery 510 South Main St Mechanicville NY 12118	1,348.66
Casella Waste to third party in Quebec Canada or Syracuse NY	74.91
County Waste via Casella Resource Solutions PO BOX Williston VT 05495	33.00
GP Harmon 1 Jericho Plaza Suite 204 Jericho NY 11753	591.55
JC Paper 57 Fulton St Poughkeepsie NY 12603	40.80

N&V International 40 Ramland Rd # 210, Orangeburg, NY 10962	1,495.40
Orange County Transfer Station 1 21 Training Center Ln New Hampshire NY 10958	6.37
Power Pallet Recycling 4715 State Highway 30 Amsterdam NY 12010	1.41
PRATT Industries Paper Mills 44358 Victory Blvd Staten Island NY 10314	4.00
Raymour & Flannigan Distribution Centers in Monmouth Junction and Gibbstown NJ and Liverpool NY	1.00
Recycling is backhauled to the distribution center then picked up by WESTROCK 504 thrasher St Norcross GA 30071	164.00
Republic Services 508 Fishkill Ave Beacon NY 12508	663.37
Sonoco Recycling 1 North 2nd Street Hartsville South Carolina 29550	1,323.07
Source One Ventures 2000-2 Shepard Ave Toronto ON Canada	257.44
Suburban Carting 566 North Road Briarcliff Manor NY	1,309.20
Westrock 1000 Abernathy Road Atlanta GA 30328	3,049.73

REGULATED RECYCLING – DEPOSIT BEVERAGE CONTAINERS (GLASS)

Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12601	1,493.50
Tomra 31 Opus Blvd Schenectady, NY 12306	16.25
Craft Beer Guild Distributors 12 South Putt Corners Rd New Paltz NY 12561	0.40
ENVIPCO PO Box 5046 New Britan CT 06050	3.60
EWG Glass Recovery & Recycle Corp. 107-28 180th Street Jamaica NY	60.47
Manhattan Beer Distributors 975 East 149th St Bronx NY 10455	11.10

REGULATED RECYCLING – DEPOSIT BEVERAGE CONTAINERS (METAL)

Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12601	1,286.00
Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12601	1,286.00
Tomra 31 Opus Blvd Schenectady, NY 12306	10.94

REGULATED RECYCLING – DEPOSIT BEVERAGE CONTAINERS (MIXED TYPES)

Manhattan Beer Distributors 975 East 149th St Bronx NY 10455	35.95
A1 Bottle Return Murray St Kingston NY - 0.08 plastic, 0.73 glass, 2.76 cans	3.57
Bottle Depot 441 Rt 9W Port Ewen NY	3.47
Craft Beer Guild Distributors 12 South Putt Corners Rd New Paltz NY 12561	5.90
ENVIPCO PO Box 5046 New Britan CT 06050	4.84
Gasko & Meyer 6636 NY-52, Lake Huntington, NY 12752	3.60
Thrifty Beverage 183 N. Hamilton St Poughkeepsie NY 12601	1.85
TOMRA North America po box 2000192 Pittsburgh PA 15251-0192	264.61

REGULATED RECYCLING – DEPOSIT BEVERAGE CONTAINERS (PETE PLASTIC)

Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12601	78.50
Tomra 31 Opus Blvd Schenectady, NY 12306	8.16

Mid Hudson Aluminum 5 Laurel Street Poughkeepsie NY 12601	78.50
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REGULATED RECYCLING – GLASS

Republic Services 508 Fishkill Ave Beacon NY	474.04
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REGULATED RECYCLING – HDPE #2

The Conti Group 1661 46th Street Brooklyn NY	64.16
Ekman Recycling 1608 Rt88 WestBrink NJ	64.25

REGULATED RECYCLING – MIXED #3-#7

EFS Plastics 5788 Line 84 Listowel Ontario	40.55
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REGULATED RECYCLING – MIXED PAPER

Iron Mountain, Secure Shredding 100 Industrial Drive Jersey City NJ	251.79
Raymour & Flannigan Distribution Centers in Monmouth Junction and Gibbstown NJ and Liverpool NY	1.00
Recycling is backhauled to Price Chopper Distribution Center then recycled by by WESTROCK 504 thrasher St Norcross GA 30071	0.60
Secure Scan 1060 Broadway Albany NY 12204	22.00
Shred-It 420 Columbus Ave Valhalla NY	1.04
Source One Ventures 2000-2 Shepard Ave Toronto ON Canada	25.52
Suburban Carting 566 North Road Briarcliff Manor NY	228.96

The Yorkshire Group 150 Rivers Edge Drive Unit 342 Medford MA	701.48
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REGULATED RECYCLING – PETE #1

HAYCORE 3144 Gregoire Rd Russel ON	20.40
The Conti Group 1661 46th Street Brooklyn NY	41.68
Ekman Recycling 1608 Rt88 WestBrink NJ	20.18
Scrap Metal Services 415 East 151st East Chicago IL	41.87

REGULATED RECYCLING – SINGLE STREAM

Greene County Solid Waste Management 1181 NY 385 Catskill NY 12414	6,700.23
Orange County Transfer Station 1 21 Training Center Ln New Hampshire NY 10958	55.77
Republic Services 508 Fishkill Ave Beacon NY 12508	4,028.75
GDB International Inc. 1 Home News Row New Brunswick NJ 08901	32.39

REUSE - FURNITURE, HOMEGOOD, MISC, ETC.

"Good 360"	0.23
Westchester Ellenville Hospital Inc DBA Ellenville Regional Hospital 10 Healthy Way Ellenville NY 12428	0.30
furniture misc thrift store reuse at Peoples Place	40.00
Habitat for Humanity 406 NY-28, Kingston, NY 12401	52.00

Lamela Sanitation Service 1118 Rte 9W, Marlboro, NY 12542	40.25
Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561	12.30
Coat hangers sent to "GARR" for recycling	4.54
plastic EAS taggs reused sent to distribution center	0.35

REUSE – WOOD PALLETS

Backhauled to Distribution Center LOWE'S PLAINFIELD, CT RDC 1421 (1421 LOWE'S WAY PLAINFIELD, CT 6374)	96.00
Backhauled to unspecified distribution center(s)	29.83
C&S Wholesale Grocers 10 Optical Ave Keene NH 03431	36.50
Westchester Ellenville Hospital Inc DBA Ellenville Regional Hospital 10 Healthy Way Ellenville NY 12428	0.39
FMP 57 Littlefield St Avon NY	3.38
Habitat for Humanity 406 NY-28, Kingston, NY 12401	1.00
Local Breweries reuse initiatives, addresses unspecified	57.00
Mead Farms 15 Scism Rd, Tivoli, NY 12583	48.60
Saugerties Central School District (public reuse initiative)	0.78
Staples Distribution Center, address unspecified	6.00
Valley Pallets Recyclers 155 MAHONEY RD MILTON, NY 12547	6.24
Wakefern Food Corp, Keasbey, NJ	1,002.00

SCRAP METAL - FERROUS METALS

Allied Recycling Walpote MA 02081	27.42
Rensselaer Iron & Steel 35 Riverview Avenue Rensselaer, NY 12144	4,638.90
Scrap Connection 4 Stone Creet Drive Suite 1 Ithaca NY 12850,	121.30
U&I Industries Reynoldsville PA 12851	27.42
Baroni Scrap 20 Vankleck Dr Poughkeepsie NY	27.42
Ben Weistman of Albany NY 300 Smith Blvd Albany, NY 12202	1,988.10
Double Win Baltimore MD 9200 W Marlboro Rd Farmville NC 27828	121.30
G&S Motor Equip 1800 Harrison Ave Kearny NJ, and Baroni Recycling, and TCI of NY LLC Coeymans NY 21143	331.20
George Apkin & Sons 17 Depost St Adams MA 01220	121.30
Nathan H Kelman Inc. 41 Enclid St Cohoes NY 12047	803.00

SCRAP METAL – FREON APPLIANCES

Ben Weitsman of Albany NY 300 Smith Blvd Albany, NY 12202	8.40
EL Recycling 2633 McKinney Ave Dallas TX	78.50
JGS Recycling & Hauling Inc. 392 Hudson River Rd, Waterford, NY 12188	4.03
Midnight SUN 734 Franklin Ave Ste 969 Garden City, NY 11530	27.00

SCRAP METAL - MIXED TYPES

Baroni Scrap Metal, LLC 20 Vankleeck Dr. Poughkeepsie, NY 12901	1,369.20
Eastern Metal Recycling 201 North Front Street Camden NJ 08102	934.50

Ben Weitzman of Owego 15 W Main St Owego NY 1327	952.62
BRIM RECYCLE 23 NY 211 Cuddleback NY 12729	0.50
Hudson Waste Container 31 Browns Crossing Rd Catskill NY 12414	30.50
Ostego Auto Crushing 6071 Hwy 23 Oneonta NY 13820	20.17
RVH Logistics 434 Sodeman Rd Middle Grove NY 12850	50.00
TAM Enterprises Rolloff Kingston NY	72.63

SCRAP METAL – NON FERROUS METALS

Fronteir Metals 613-639 Route 46 East Clifton, NJ 07013	117.00
Baroni Scrap 20 Vankleck Dr Poughkeepsie NY	14.29
Double Win Baltimore MD 9200 W Marlboro Rd Farmville NC 27828	48.00
Nathan H Kelman Inc. 41 Enclid St Cohoes NY 12047	38.00
Prime Material Recovery 99 E River Dr East Hartford, CT 06108	470.00

TEXTILE RECYCLING

Helpsy 246 Industrial Way West, Ste 109 Building E, Eatontown New Jersey 07724	572.00
misc. shelters and ASPCA or used in house as rags	0.15
Planet Aid 18 Commerce Rd Fairfield NJ 07004	111.00
Rock Solid Provisions 7456 Route 9W Catskill NY 12414	281.70
ST Pauly Textile 1067 Gateway Dr Farmington NY 124425	23.90
USAgain, LLC 18 Sargent Place NY, 10550	275.22

Wallkill Hook Ladder Hose Co. PO BOX 18Central Ave Wallkill NY 12589	0.39
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TIRE RECYCLING

Ben Weitzman of Owego 15 W Main St Owego NY 1327	0.32
Bobs Tire Mattapoistt MA 02739	33.72
Casings Tire Inc. 169 Maple Ave Catskill NY 12414	878.43
Corsi Tire 200 S Highland Ave Ossining NY 10562	2.00
CRM Co LLC 1414 Norwhich Rd Plainfield CT 06374	67.45
Custom Bandag 123 Dupont Ave Newburgh NY	1.00
Empire Tire 1414 Norwich Rd Plainfield CT06374	13.52
Greene County Solid Waste Management 1181 NY 385 Catskill NY 12414	0.18
HTI Recycling 490 Ohio St Lockport NY	209.00
Lakin Tire 220 Frontage Road West Haven CT 06516	398.18
Orange County Transfer Station 1 21 Training Center Ln New Hampshire NY 10958	0.24
TYREX Resources LLC 628 Hebron Ave Ste 210 Glastonbury CT 06033	8.54

III. SIGNIFICANT PLAN UPDATES

3.1 Diversion or Waste Processing Technology Selection

Section 7.11 of the original LSWMP discussed Technology Selection. Three technologies were originally selected to pursue in the 10 year planning period including feasibility studies for siting a local landfill, installing a BioHiTech (biomass) facility, and waste exportation by railroad. A fourth feasibility study related to the materials recovery facility was also identified (p.114). **As discussed in the previous biennial update, new Executive Leadership and Board members collectively discussed this direction for the Agency, and the high costs of conducting multiple studies simultaneously. Other factors like the covid pandemic, delays in Agency permit renewals, changes in executive leadership, and many other considerations influenced the lack of interest to pursue some or all of these studies during 2020-2021.**

Despite this, the Agency took meaningful steps to gather relevant information and make meaningful progress in the area of investigating future final disposal technologies during 2020-2021. As discussed in detail in the previous biennial update, those activities included: learning about landfill siting and public-private partnerships; learning about companies like Hughes Energy, Caribou Biofuels, and Green Waste Energy, to gather information about landfill alternatives; HydroQuest was hired to conduct a GIS Analysis to identify any number of potential sites in the County that conform to NYSDEC landfill siting criteria.

The following section will further address the ongoing activities that have informed Agency staff and Board about investigating future final disposal technologies. These activities may relate to the ongoing discussion about the four original feasibility studies or alternative concepts for long term waste disposal, and may guide future updates to the Local Solid Waste Management Plan.

Seneca Meadows Landfill

The last updated solid waste management plan included the following strategies, which relate to the information discussed in this section:

- (2022) Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.

At the Agency Board Meeting on March 24th 2022, Kyle Black, District Manager of Seneca Meadows Landfill was invited to give a presentation to the Board about the Seneca Meadows Landfill and provide clarification about the current state of the landfill's permit. Mr. Black has been with Seneca Meadows Landfill for over 20 years and discussed the history of the landfill,

an overview on the general operations at the landfill, and used a site map to describe the layout of areas and the proposed expansion. Mr. Black described the agreement with the surrounding towns and legal proceedings, zoning, and permitting considerations at play.

The current active landfill area was permitted in 2007 with an 18 year expiration date, ending on December 31st 2025. Mr. Black explained that the company presented a plan to NYSDEC to install a liner system and fill in a middle zone area between two existing landfill sites on the property, which, according to the company, would allow approximately 31 million tons of permit capacity. As they currently are permitted to receive 2 million tons per year, the company estimates this to be an additional 15 years of site life if the expansion is approved. The company has gone through multiple renditions of technical questions with DEC and at the time of this meeting was on track to begin the SEQRA and public comment process.

Mr. Black conveyed that while there was local politics at play and pending litigation, he felt that the relationship with the Town was becoming more positive and favorable. The company's discussions and plans to further expand the landfill site are ongoing.

ByFusion Global Inc.

The last updated solid waste management plan included the following strategies, which relate to the information discussed in this section:

- (2022) Continue to evaluate different and emerging technologies for waste management.
- (2022) Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.

In December 2021, Former Agency Board Chair Katherine Beinkafner connected with the company ByFusion Global Inc. and networked with representatives Kelly Ramey, Jolanda Jansen, and Jodie Laughlin, to learn more about the company's ByBlock system. Beinkafner was interested in opportunities to increase landfill diversions and utilize non recyclable plastic waste for greater uses. In Fall 2021, Agency staff participated in an introductory meeting with representatives from ByFusion Global Inc.

ByFusion's automated Blocker System S40 is operational in Los Angeles, California. Their plastic block-making system offers MRF operations "a new capability to convert low value plastic into compressed blocks for use in building construction applications." The Byblock system creates a structural, reusable building block through a process where plastic waste is shredded and fused into a compressed block without any secondary additives or fillers. Their

promotional materials state that ByBlock is designed to integrate with traditional building materials like lumber, steel and cement, making ByBlock “a versatile construction-grade building material for walling applications, dumpster enclosures, uninhabited and inhabited structures, fences sound-barrier walls, sheds, garages, bus shelters, warehouse, housing and other infrastructure applications.” The company claimed the Model S40 modular unit can process 40-100 tons/month resulting in the production of 43,750 - 140,000 ByBlocks, but did not present any project proposals beyond general introductory information.

Beinkafner continued to seek opportunities to introduce the technology to Agency Board and staff throughout her tenure as Board Chair. Staff internally discussed their questions about the company and processes. In May 2022, Beinkafner shared information about the company to the Board and decided to discuss it at the next Zero Waste Committee meeting. The Agency held a Zero Waste Committee Meeting on June 16, 2022. Information provided by ByFusion Global, Inc. was briefly discussed by Committee Members (Becker, Beinkafner, Kacandas) and staff. Ultimately, the Committee felt the discussion regarding ByFusion should be put on hold until after a new Executive Director is hired.

In October 2022, the Agency hired Executive Director Greg Ollivier. While the new Director and Beinkafner interacted often during their overlap working with the Agency, it's unclear what engagement(s) they had regarding ByFusion as a viable option to reduce landfill waste. Beinkafner's term ended two months after Ollivier was hired, and the Board continued to change and adapt to new Board member perspectives, and presently the Board has not continued to pursue additional information about this company. Despite this, it's important to emphasize Agency's progress with tasks relating to evaluating different and emerging technologies for waste management.

Transition to New Executive Director

The last updated solid waste management plan included the following strategies, which relate to the information discussed in this section:

- (2022) Continue to evaluate different and emerging technologies for waste management.
- (2022) Continue to explore options to increase diversion of organics from landfilling.
- (2022) Create GIS Map tools to evaluate landfill siting options and work with Agency Board, NYS DEC, Ulster County Planning Department and Department of the Environment, and other stakeholders to interpret results of the study and implications for future updates to this plan.

Agency staff (Director of Finance, Director of Operations, and Director of Sustainability) met with the incoming Executive Director, Greg Ollivier, on October 19th 2022. The topic of this

meeting was Disposal Technology Alternatives. The directors presented Ollivier with notes and documents about the research and information gathering that had been done over the previous two years, as outlined in the last Biennial Update. The Director of Sustainability provided synopses of various companies (Hughes Energy, Caribou Biofuels, Green Waste Energy, Entsorga Biohitech, etc.) and provided contact information. The staff also provided a history of landfill studies in the County. The staff discussed what (if any) proven technologies were currently available for the specific waste composition managed by UCRRA, and what (if any) projects could be viable or appropriate due to public concerns.

WastAway

The last updated solid waste management plan included the following strategies, which relate to the information discussed in this section:

- (2022) Continue to evaluate different and emerging technologies for waste management.
- (2022) Continue to explore options to increase diversion of organics from landfilling.
- (2022) Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.

As the newly appointed Executive Director, Greg Ollivier was promptly tasked with several major initiatives to further investigate alternatives to landfilling. At the Agency Board Meeting on October 27th 2022, Charles Moseley, a representative from the Tennessee-based company WastAway, was invited to give a presentation to the Board and staff about the company's technologies for MSW treatment, claiming the company's innovative processes "result in up to 90% landfill diversion." Mr. Moseley discussed the history of the company, a general overview of the technology and processes in their system, and introduced a scenario whereby the Board may consider a public-private partnership with WastAway.

Mr. Moseley discussed their facility in Kern County California, which cost \$60 million, and was built to process 140,000 tons of MSW per year. Mr. Moseley described the technical processes. The system inputs can include "unsorted" household garbage, and can include commercial food waste, compostables, and recycling residuals. The WastAway system does not have the ability to process C&D or commercial or institutional waste. A Hydrolizer first sanitizes inbound waste using 350 degree temperature, 150 psi saturated steam. The system then removes metals, glass, rocks, and other inert materials. Mr. Moseley claimed that glass and inert material can make up 10-15% of waste, so therefore the process "can achieve 90% diversion from landfills." After the waste is sterilized, it goes through two shredding phases, resulting in a

2 inch minus shredded, steam-cleaned “fluff” material. Moseley had sent a sample of this “fluff” material to the Agency and claimed it to be “a sterile, pathogen-free end product.” Moseley described that the “fluff” can be further processed using a high solid continuous plug flow digester which uses bacteria to convert the material into a renewable natural gas, or biogas. Biogas is then cleaned and compressed to pipeline standards. Moseley claimed the remaining digestate could then be further composted.

Mr. Moseley described the history of various types of testing on the product, but examples appeared to be experimental in nature. He described various potential end uses such as: alternative fuel in cement kilns replacing other traditional feedstocks like coal or woody biomass; research and development to use the “fluff” as an alternative additive in building materials; used as a potting soil replacement for horticultural applications. He discussed the history of testing the product, and an EPA “comfort letter” considering the material to be a secondary nonhazardous material. While this information was shared for informative purposes, Moseley reiterated that the company model moving forward will be to process the “fluff” via anaerobic digestion, and stated this was a relatively new evolution of WastAway’s technology and system (less than a year).

Mr. Moseley claimed that WastAway’s investors were ready to expand. In the partnership model verbally and informally introduced to the Agency Board, WastAway would require 5-10 acres to construct a facility large enough to process the eligible fraction of the County’s waste stream. WastAway would finance, build, operate, and train the site operators, assuming 100% responsibility for the maintenance and operation of the site, including the disposal of any residual, the marketing of metals or plastics removed by the system, and the further processing of the digestate. Moseley explained that WastAway would seek a long term commitment from the Agency to provide the waste, such as 20 years or more. As the plant owner, WastAway would receive the Renewable Energy Credits for the biogas created by the project. Moseley invited the Board to visit their facility in Tennessee.

Following the presentation, the Agency Board and staff discussed various questions. The main comments and questions raised were; clarification surrounding land leasing agreements; estimating the volume of the outbound material; emerging contaminants such as PFAS and clarifications on the level of testing that has been done; concerns about the quality of the compost resulting from MSW; clarification on roles and responsibilities to market the end products; seeking clarification about ownership and destinations for the recovered recyclable materials; concerns about the carbon footprint of trucking recyclable materials long distances, infrastructure needed for natural gas pipelines; and other concerns. Ultimately, Board Members requested more internal discussion and more information. Ollivier continued to work

up a collection of test results from the company and the company later responded to the SOI discussed in this section.

Request for Proposals for Engineering Services

The last updated solid waste management plan included the following strategies, which relate to the information discussed in this section:

- (2022) Continue to evaluate different and emerging technologies for waste management.
- (2022) Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.
- (2022) Create GIS Map tools to evaluate landfill siting options and work with Agency Board, NYS DEC, Ulster County Planning Department and Department of the Environment, and other stakeholders to interpret results of the study and implications for future updates to this plan.

As the newly appointed Executive Director, Ollivier was tasked with further investigating the feasibility of a countywide landfill. At the Agency's January 26th 2023 Regular Board Meeting, the Board unanimously passed Resolution No. 2585, *Authorizing and Approving a Request for Proposals for Engineering Services*. The RFP would seek to identify costs and timeframes for a new landfill feasibility study that was believed by some to be more comprehensive in scope than the HydroQuest report.

By April, two responses from qualified firms had been received and were being reviewed by Ollivier. Ollivier had interviewed both firms to clarify the project scope and shared an opportunity for both firms to provide an addendum after the interview discussion. Board Member Egan made a motion to set up two meetings in May for one-hour time slots for each company to provide a presentation, but the presentations ultimately never occurred.

As discussed in Section 1.6.2, the Agency faced criticism and opposition to the studies and other activities which significantly delayed the award of the RFP. The Agency welcomed two new Board Members (Obijiski, Gilmour) at the August 25th 2023 Board Meeting, where Ollivier's employment contract was terminated during the meeting. In early October, the Board hired an Interim Executive Director, Anna Roppolo, who was tasked with helping lead the search for a permanent Executive Director and helping guide the Agency's business decisions, including the RFP for landfill feasibility studies. Roppolo advised the Board about the landfill study and the Board agreed to adjust the scope of work for the RFP considering Roppolo's input. By the November meeting, the updated scope of work had been circulated with the two

engineering firms who originally responded to the RFP. At the December Board meeting, Resolution No. 2610, *Approval of Cornerstone Engineering Proposal for Waste Management Strategies for Ulster County*, was presented to the Board.

Board Member Egan made a motion to postpone the project until a full time Executive Director is hired to manage the project. Ultimately, the motion was defeated in a 4 to 1 vote (with Member Egan in favor of postponing). Board Chairman Ghiorse clarified that the Agency is not committed to the progression of all three tasks in the updated scope of work, and the Agency can determine to proceed to subsequent tasks as it deems necessary.

Ultimately, the Board approved hiring Cornerstone to conduct the Agency's landfill feasibility study in a motion that passed a 4 to 1 vote (with member Egan opposed) at the December 2023 Board Meeting. The Agency plans to begin work with Cornerstone on the first phase of the study (to review the Hydroquest Study screening filters utilized and whether or not additional filters should have been reviewed) with hopes of evaluating next steps along with a new Executive Director in early 2024.

Request for Statements of Interest

The last updated solid waste management plan included the following strategies, which also relate to the information discussed in this section:

- (2022) Continue to evaluate different and emerging technologies for waste management.
- (2022) Continue to explore options to increase diversion of organics from landfilling.
- (2022) Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.

As the newly appointed Executive Director, Ollivier was tasked with further investigating alternatives to landfilling. Ollivier recommended initiating a Request for Statements of Interest (SOI) to solicit new ideas and/or technologies to maximize landfill diversion. Statements of Interest are not full proposals, rather they are an overview of each company and their capabilities to assist with landfill diversion strategies. SOIs may provide information to consider options for the alternative waste processes or future partnerships. At the February 2023 Agency Board meeting, the Board of Directors approved Resolution No. 2586, *Authorizing and Approving a Statement of Interest for the Diversion of Waste*. This project was done in conjunction with the Agency's Request for Proposals (RFP) for a landfill feasibility study.

At the Agency's April 27th 2023 Regular Board Meeting, Ollivier provided an update that the Agency received four responses that all focus on removing organics from the waste stream and processing it in various ways including composting, anaerobic digestion, and pyrolysis. The collected responses were from Anaergia Technologies LLC, Green Waste Energy, Inc., Nexus W2V, WasteAway, and Greenway Environmental. The Board was provided with a copy of each response and they were publicly archived to the [Agency's website](#).

The Board members discussed their desire to set up 1 hour presentations with each of the four companies in the month of May. These presentations ultimately never occurred. As discussed in Section 1.6.1, in the following weeks, two Board members resigned and eventually the Agency welcomed two new Board Members (Objiski, Gilmour) at the August 25th 2023 Board Meeting where Ollivier ultimately separated from the Agency and an Interim Director was then hired. These changes in Executive Leadership further delayed progression on awarding any contractors for the SOL. Presently, no action is being taken on selecting awardees from the SOL but the Board may continue to discuss next steps with input from a new Executive Director once one is hired in early 2024.

Conclusion - Diversion or Waste Processing Technology Selection

The Agency is committed to actively monitoring the status of the Seneca Meadows Landfill and the status of contracts pertaining to transportation and disposal, as it relates to the future strategic plans for ways residual waste is ultimately managed in the planning unit. The Agency will simultaneously continue to evaluate alternative and emerging technologies for waste disposal, and strategies to increase diversion of organics from landfill disposal. Agency Staff will continue to conduct interviews, meetings, and facilitate presentations to the Board of Directors to actively share information and network with public and private sector leaders in the solid waste industry and gain awareness of emerging technologies or public-private partnerships. Participation in regional meetings with other counties in the Hudson Valley to investigate opportunities for a regional approach to solid waste is still of interest to the Agency Board and stakeholders.

In the immediate next two years of the Local Solid Waste Management Plan, the Agency will employ a new Executive Director who will be critical to steward these processes and work with the Board of Directors to develop visionary solutions to the challenges faced by the Agency. In the immediate next two years of this plan, additional information about alternative technologies and the feasibility of local landfill siting options will become more clear, via the Cornerstone Engineering Proposal (Res No. 2610) and evaluation of results from the Statements of Interest (Res. No 2586). The Agency is committed to work collaboratively to interpret the results of these studies, next steps, and implications for the

future direction of the Agency. These and other key points are outlined in Section Four, Implementation Schedule Updates.

3.2 Festival Event Recycling

The original LSWMP discussed a targeted outreach campaign to promote waste-sustainability among local special events and festivals, scheduled for 2026 implementation year (p. 140 LSWMP). Per a Board directive, former Executive Director Ollivier focused efforts on achieving zero waste at the Ulster County Fair, and as discussed in Section 1.4.4 of this biennial update, the Agency had a significant presence at the Ulster County Fair in 2023.

Ollivier worked with supplier *Clear Stream* to acquire approximately one hundred and seventy (170) new collapsible event bins. These bins are wire framed, portable bins made from 80% recycled content, and include color-coded, hot stamped lids made from up to 25% recycled content. Ollivier purchased twenty (20) Three Bin Zero Waste Stations (20 blue “Recyclables only” bins, 20 green “Compostables only” bins, and 20 black “Trash only bins) with each set including billboard sign kits, and connectors to interlock the bins into rigid stations. Shortly thereafter, Ollivier ordered fifty five (55) additional Two Bin Stations (55 blue “Recyclables only” bins, 55 green “Compostables only” bins) with each set including billboard sign kits, and connectors. In total, the Agency acquired 75 recycling, 75 composting, and 20 trash bins.

In the wake of Ollivier’s separation from the Agency, the Recycling Outreach Team would launch what would become the Agency’s new official festival/event bin rental program. The Director of Sustainability formalized guidance, an inventory management system, and a formal agreement for renting the bins from the Agency, which was previously left undeveloped. In the next two years of the planning period, the Agency’s Recycling Outreach Team can continue to develop a calculated plan to successfully increase public participation in festival or event recycling and composting.

Community events and street festivals offer a unique opportunity to foster a waste-sustainability ethos that is more integrated into community values, as well as fostering education and visibility for source separation in the general public consciousness. An effective festival recycling and composting program requires various tools and resources that the Agency can further develop and provide. For example, festival organizers may need support with; talking points about why event recycling and composting should be pursued, a planning checklist for event organizers, dedicated receptacles to ensure source separation of various waste streams, educational signage, guidance on accepted and unaccepted items, contact lists of waste haulers and vendors, best practices for training the vendors about source separation or other requirements, reference material about sourcing the appropriate

compostable products, a broad volunteer base to monitor collection bins, and other considerations. Some of these tools are readily available but can be formalized into a package of resources that would allow implementing festival recycling and composting easy, convenient, and most importantly, successful.

Ulster County communities host an impressive number of high-attendance festivals, street fairs, farmers markets, and other public events that can be leveraged to sustain an ongoing program offered by the Agency. The Hudson Valley Garlic Festival has steered significant efforts to demonstrate low-impact or zero-waste practices in recent years. The Garlic Fest is a ticketed, two day family-oriented festival featuring a local garlic farmers showcase, and a broader food, arts, music, and craft festival that typically draws 30,000 - 50,000 attendees per year. In 2022, the event organizers, Kiwanis Club of Saugerties, started working with local company Greenway Environmental Services LLC to establish a goal of diverting 85-90 percent of the waste generated at the festival from landfills. The effort required a volunteer workforce of 200 dedicated volunteers to monitor collection bins and guide attendees on how to source separate recyclables and organics. Data provided by the company, Greenway, asserts that in 2022, 15 tons of food, 1 ton of cardboard, and about 500 pounds of bottles and cans were collected. Compared to the 2 tons of residual trash, the effort was highly successful in diverting 89% of materials from disposal.

Examples of other large events include the County Fair and other agricultural events, Music/Wellness street fairs (O+ Festival), community-level Earth Day events, Arts & Craft Fairs, farmers markets, Food Truck Festivals, cultural food-centric events, and dozens of other examples.

Conclusion - Festival Event Recycling

The Agency is committed to implementing new tools and services that ensure that regulated recyclables and compostable organics can be effectively source separated and recovered at these large attendance public events in the County. With the new tools acquired in 2023, there is ample opportunity to offer bin rentals to small, medium, and large scale events and gatherings.

In the immediate next two years of the Local Solid Waste Management Plan, the Agency will develop a master list of local festivals, events, and fairs. The Recycling Outreach Team will continue its progress developing a more formalized suite of resources, such as a dedicated webpage and a new best practices guidebook for festival waste-sustainability. Within the next two years, the staff hopes to initiate a targeted outreach campaign to local festival organizers to distribute the new resources, and host an event or presentation to promote the new festival bin rental program.

In the immediate next two years of the Plan, the Agency will employ a new Recycling Program Administrative Assistant who can support the program. Additional staffing will be necessary to expand these educational services long term. Once fully operational, the staff will maintain records of inventory and usage of the bin rentals and evaluate the program's success. The staff's ongoing efforts to recruit and train volunteers through its Master Composter Recycler Program can also play a key role in supporting festival recycling in the future. These and other key points are outlined in Section Four, Implementation Schedule Updates.

3.3 Reuse Innovation Center

In February 2022, Agency Board and Staff were invited to provide commentary on a draft Request for Proposals (RFP) developed by Ulster County Department of the Environment. The purpose of the RFP was to obtain proposals to conduct a planning study for the development of a Reuse Innovation Center (RIC). A Reuse Innovation Center is *"an ecosystem of enterprises, programs and projects, which can be any combination of public or private entities, that reuse materials in their original or similar form through craft or light industrial approaches, with one or more physical locations that can also house an array of supplemental businesses and projects that add value, such as training and repair services"* (RIC Final Report, 2023). According to the RFP, the Ulster County Reuse Innovation Center (RIC) study was established with a primary focus of "maximizing diversion opportunities and relevant community participation activities for the portion of the solid waste generated in Ulster County that is currently being landfilled." The project would be conducted with funding from the Ulster County Legislature, and the County's Department of the Environment would serve as the project manager and administrative lead.

In March 2022, Agency Board and staff reviewed the RFP documents and discussed various aspects of the scoping plan and the greater Reuse Innovation Center (RIC) concept. From the onset, it was clear that the Agency was an important stakeholder and members of the Board and staff felt enthusiasm to support the initiative in the best way possible. However, the Board and staff interpreted the Agency's role and other details about the project differently. After collaborative discussions among Board and staff, the Agency presented written comments about the RFP to the Ulster County Department of the Environment, as requested.

At that time, the feedback prepared by the Agency included commentary regarding:

- Lack of clarity on scope of the RIC and centralized versus decentralized approaches
- Remuneration for the consultant
- Acknowledgement of local Repair Cafes and repair businesses

- Acknowledgement of local reuse programming
- Decentralizing model to strengthen the local Municipal Recycling Drop Off Center system
- Characterization of the Ulster County Waste Stream in progress
- Organics as a priority material
- Diversion program for Agency Construction & Demolition (C&D) debris
- Market analysis for collected material streams
- Setting realistic diversion goals

In June 2022, the County initiated the Request for Proposals (RFP) for the Ulster County Reuse Innovation Center Planning Study (RFP - UC22-040). The project goals as outlined in the RFP were to: determine the feasibility of creating a single Reuse Innovation Center (RIC) facility; determine the optimum programming, size, site selection considerations, and operating model for such a facility; and develop an implementation plan for the construction and operation of a RIC which will reduce the amount of MSW and C&D waste generated in Ulster County that is landfilled each year. The Scope of Work included five tasks:

Task 1: Characterization of the Ulster County Waste Stream

Task 2: Identification and Analysis of the Waste Diversion Programs and Activities

Task 3: RIC Conceptual Plan

Task 4: RIC Site Selection Considerations

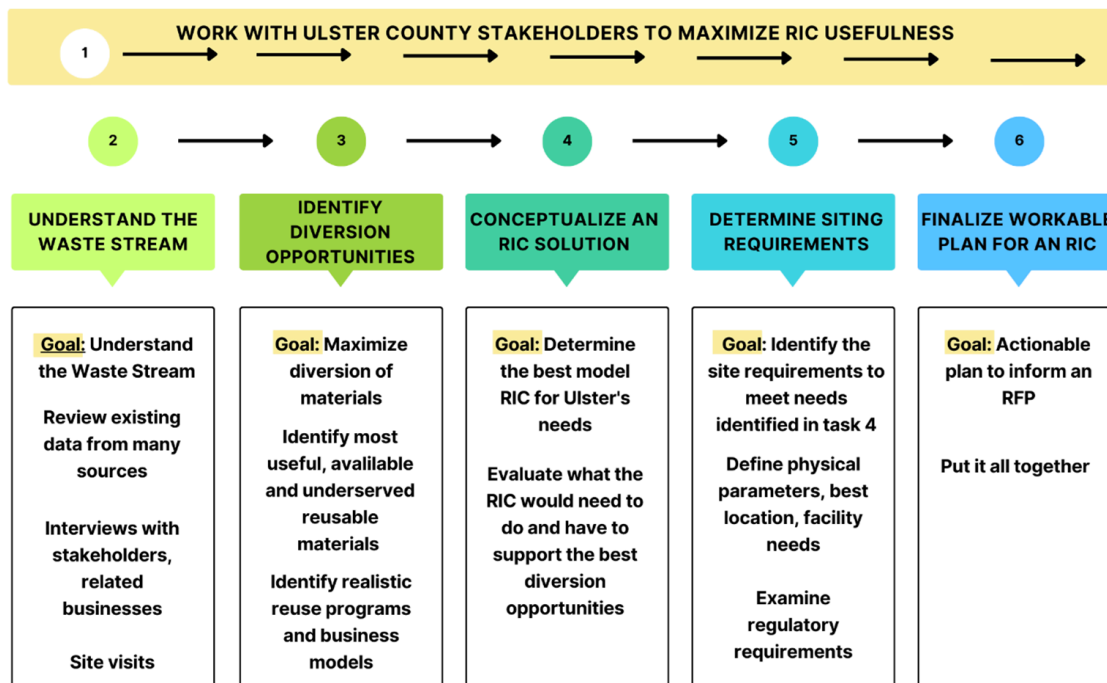
Task 5: Final Report

Refer to [The Sustainable Hudson Valley website](#) for full details regarding the County Reuse Innovation Center RFP, Final Report, and related documents.

Later that summer, the project was awarded to Sustainable Hudson Valley (SHV), Barbara Todd, Program Coordinator, serving as administrative lead and Melissa Everett, Ph.D., Executive Director serving as a Senior support person. The project was awarded along with a subcontractor, Dave Bennink, CEO of ReUse Consulting, to complete the study over a 13 month timeframe (County Contract # 2022-00000490).

Figure 30: Diagram of Feasibility Study Phases sourced from the Reuse Innovation Center Feasibility Study Final Report Presentation to Stakeholders by Sustainable Hudson Valley and Reuse Consulting

Reuse Innovation Center Feasibility Study



The Agency transitioned to a new Executive Director, Ollivier, around the time the feasibility officially began. On October 20th 2022 the RIC Project Team, including members of Sustainable Hudson Valley, Reuse Consulting, and the County Department of the Environment, participated in a guided tour of the UCRRA facilities, followed by an introductory kick-off meeting with Ollivier and other Agency staff. Early in the project, the Agency hosted several visits from the project subcontractor, Reuse Consulting, in which the Agency's solid waste operations and diversion processes were discussed and observed, and information was routinely shared with the Project Team when requested.

Over the course of the next several months, the RIC Project Team (Sustainable Hudson Valley) held multiple stakeholder engagement sessions to solicit input about the project from elected officials, local environmental groups, and concerned citizens. It was generally understood that stakeholder input would be greatly considered when shaping the overall strategy of the RIC study. It was understood that, for each phase (deliverable) of the study, a draft would be reviewed by a committee at the County Department of the Environment and updates made according to commentary received. A subsequent revision, once accepted, would allow work to begin on the following phase (deliverable). Each phase's deliverable would build on the previous as public information sessions were held.

The former Executive Director, Ollivier, emerged as the primary Agency representative for the RIC project Team. Other Agency staff or Board members were not participating in the stakeholder sessions during this time. As the project progressed, information about the project was limited or represented that not enough consensus was available yet for the Agency's evaluative purposes as the project continued to adapt to other stakeholder perspectives.

In the wake of Ollivier's separation from the Agency around October 2023, the Agency's Interim Executive Director Roppolo and the Director of Finance and Administration DeGraff were invited to share input and comments on the RIC, though they were at the disadvantage of commenting at the very end of the process and lacking any substantial briefing by the exiting Director. At that time, the feedback prepared by the Interim Executive Director and Finance Director included commentary regarding:

- How inventory of donated reusable materials would be tracked, measured, audited
- How diversion numbers (weight of materials) would be tracked and measured
- Policies regarding sales or timeline for eventual unwanted inventory or calculating an inventory turnover ratio
- Best practices currently being used at the Town of New Paltz ReUse Center and if consultants have reviewed or audited similar practices described above
- The role of current reuse businesses in the county
- The role of current Municipal Recycling Drop Off Centers in each town
- Clarification was provided about the property adjacent to UCRRA facility and permitting
- Clarification requested on the phases of the project with budgeting costs and timeline
- Clarification requested to address discrepancies regarding options for sources of inventory (source separation versus tipping floor scavenging) and additional cost analysis necessary for each scenario
- Corrections needed to address inaccuracies in the final draft report and updates to the cost calculations that reference these metrics
- Clarification needed on liability concerns with a municipally-operated RIC
- Clarification needed on the waste characterization used for this report, which may not represent the entire planning unit. Request to acknowledge any concerns regarding potential underrepresentation in this regard.

Also around this time, the Agency's Recycling Outreach Team was also invited to provide written comments to the Agency Board of Directors. Coincidentally, in November 2023, the staff attended the NYSAR3 Annual Recycling Conference which featured a full pre-conference day dedicated to deconstruction, C&D recycling, materials reuse, and other topics highly relevant to this project. Several observations were made from the information shared at the

conference. Director of Sustainability, Angelina Brandt, prepared written comments to the Agency Board and interested stakeholders. At that time, the feedback prepared by the Recycling Outreach Team included commentary regarding:

- Acknowledgement of the successful, small-scale reuse and deconstruction projects in NYS that demonstrate potential and model strategies.
- Acknowledgement that existing programs are stewarded by non profit organizations or private businesses and other organizations unlike UCRRA.
- Challenges to implementing deconstruction projects (insurance, liability, permitting, regulation, public health concerns of toxic materials, lack of adequate storage space, timeline, costs) and concern that these challenges are underrepresented in the County's report.
- Not every building slated for demolition is suitable for systematic deconstruction (asbestos abatement, mold, lead paint, water/fire damage, structural/safety issues, time, cost, historic preservation) and requesting more discussion of criteria for why a building may not be suitable for dismantling, how those decisions should be evaluated and addressed, and how this affects waste diversion potential ("soft stripping" versus hybrid, versus full deconstruction).
- What strategies would be necessary to effectuate a workforce competent in deconstruction (engineers, architects/designers, property developers, real estate agencies, demolition and construction workforce, building/code enforcement officers and assessors, insurance agencies, safety officers (OSHA, etc.), city planners, skilled tradesmen, demolition contractors, labor unions, junk removal/roll off rental companies, historic preservation societies, etc.) and their perspective may be under-represented in the County's study.
- How will the County develop adequate warehouse capacity in the immediate, near, far, and distant future? How will the County ensure enough demand for the sale of the salvaged materials?
- Acknowledgment of NYSDEC's updated solid waste management planning document and relevance to addressing the County's goals for a RIC project, including the prospects for funding and statewide reuse initiatives.
- Clarification needed on the components of C&D targeted by the RIC and the basis for prioritization of target materials.
- Operational, logistical, financial and regulatory considerations regarding sourcing materials directly from the Agency may be under-represented in the County's report. Acknowledging there is no clear basis for comparison among other existing reuse programs whereby citizens usually bring donations and reusable materials directly to a Reuse Center, not "on the tipping floor scavenging" discussed throughout the report. .

- Acknowledgement of the informal reuse systems currently in place at local Municipal Recycling Drop Off Centers.
- Emphasizing the merits of a decentralized model using existing Municipal Recycling Drop Off Centers for a County-wide reuse project, which may yield greater public participation, and thus greater recovery rates, by bringing reuse program opportunities direct to residents in their community. Has the consultant reviewed the cost benefit analysis of a decentralized model versus a single central building for a Reuse Center?
- Consideration of all specific existing vendors or small businesses within each of these target materials categories is essential to explore and evaluate partnerships, as well as business venture threats or weaknesses to the RIC project, and the willingness of these businesses to participate in being a RIC member.
- Was there any communication between the county's existing reuse organizations to determine their average yearly donations, what their most profitable reuse materials currently are, and if they currently accept or have capacity to expand acceptance of deconstructed materials like windows, doors, toilets, etc?
- Clarification needed on end market research for each of the top materials identified
- Concern for the extrapolation of cost savings and diversion potential based on one day of observation at the transfer station
- What are the greenhouse gas emissions associated with each prioritized material?
- What marketplaces does the RIC intend to use to sell its products?
- Were any vacant or abandoned structures in Ulster County surveyed that could serve the RIC's purpose?
- Was accessibility a factor when determining the location of the RIC? Considering environmental justice areas, population density, public transportation, etc.
- Is there any intention of certifying a deconstruction workforce? What insurance is needed for a deconstruction workforce?
- What incentives could be offered to encourage deconstruction over demolition?

Some Board Members acknowledged the staff's comments but it is generally unclear what level of engagement or incorporation of their comments into the final report followed.

By the end of 2023, a final Reuse Innovation Center Report was published and circulated among various stakeholders. The final report affirmed that the project's priorities were to identify how an Reuse Innovation Center can: maximize diversion opportunities from the landfill and relevant community participation activities; support a local circular economy via the programs and activities identified; be one solution supporting broader community-scale waste diversion goals; and support planning for local/regional partnership opportunities. Out of the

scope of the study: organics; toxics; heavier industrial activities that would require 360 permitting.

The following section is presented as an excerpt from the RIC Feasibility Study Final Report Presentation to Stakeholders by Sustainable Hudson Valley and Reuse Consulting, and is provided to further enrich this section with a brief summary of the consultant's conclusions. Refer to [The Sustainable Hudson Valley website](#) for full details regarding the County Reuse Innovation Center RFP, Final Report, and related documents.

Conceptual Plan for the RIC: a Four Phase Rollout Strategy

Phase 1: Planning, Policy Making and Proof of Concept

- Establish the roles of county governmental branches, UCRRA, municipal and private partners, in developing and running the RIC.
- Incubation and proof of concept through development of the nucleus of a deconstruction industry - Training of contractors, then workers to build capacity in UC
- Supportive policy toward flow control and deconstruction once capacity is established is key
- Design systems to implement key diversion strategies upstream and downstream
- Proof of concept initiative - test methodology, throughput of materials

Phase 2: anchor operations and core business for the actual RIC. Anchor operations include administration, financial management systems, office space, branding and outreach materials and a web presence.

Phase 3: Bring in partnering reuse businesses

Phase 4: Establish a repair business and workforce training operation. Expand recycling infrastructure. Continue expanding business partnerships as materials supply, market demand and capacity allow.

The final concept also included a very brief, preliminary discussion of a recommended sourcing plan, marketing strategy, potential budgeting and funding sources, and a summary of stakeholder concerns and related updates.

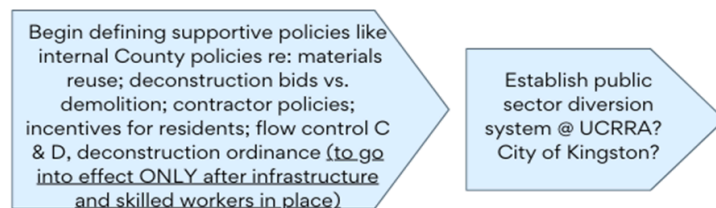
Consultant's Final Recommendations

1. Focus on diverting materials that can definitely be used and has a known model to maximize material re-entry into the circular economy

2. Divert upstream, mid-stream, downstream
 3. Start with a smaller scale proof-of-concept
 4. Early focus on training for capacity building and public awareness
 5. Supportive policies like flow control and a deconstruction ordinance
 6. Establish public sector diversion system at UCRRA/transfer stations, Kingston
- RECOMMENDED: Government provides location and/or seed funding; privately run, poss. through contract; a nonprofit involved so tax-deductible materials donations

Figure 31: Diagram from the Reuse Innovation Center Feasibility Study Final Report Presentation to Stakeholders by Sustainable Hudson Valley and Reuse Consulting

Groundwork Policy and Planning



Proof of Concept (0-6 months)

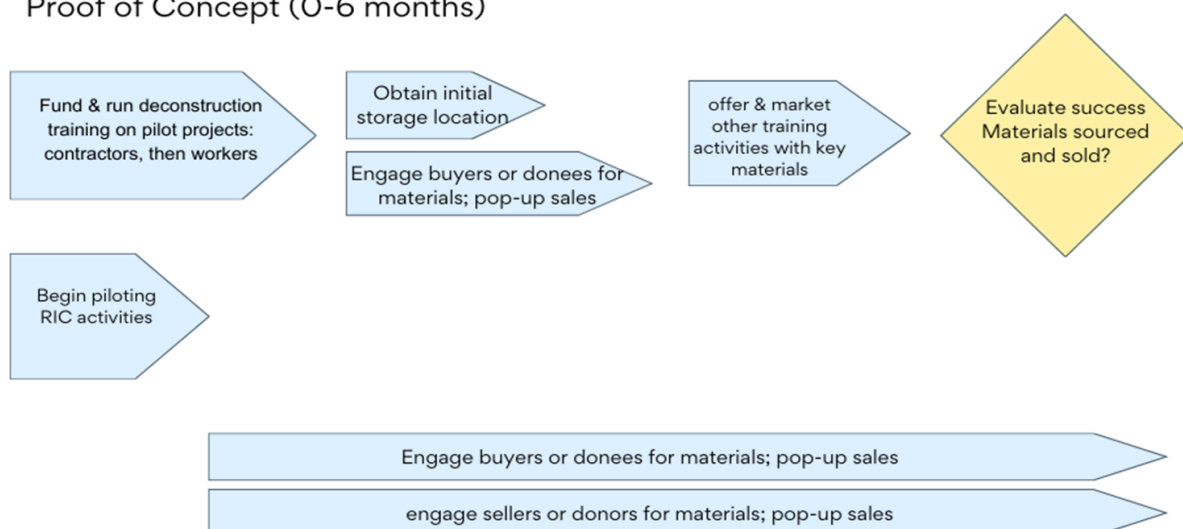
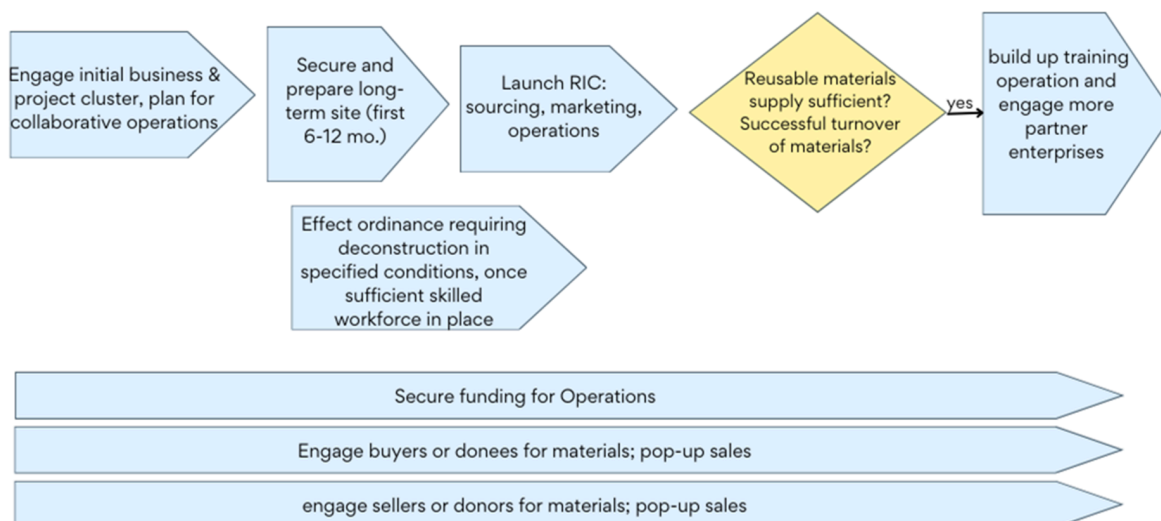


Figure 32: Diagram from the Reuse Innovation Center Feasibility Study Final Report Presentation to Stakeholders by Sustainable Hudson Valley and Reuse Consulting

RIC Development



Consultant's Summary of Next Step Decisions

1. What policies will the Ulster County Legislature pass to create optimal conditions for the Reuse Innovation Center?
2. Who will own the RIC? How will Ulster County coordinate planning and decision-making regarding the Reuse Innovation Center to ensure that the project has the autonomy and – at the same time – the accountability and support that are needed to move forward in a way that benefits all parties and is organizationally and financially sustainable?
3. What materials collection systems will be established by the County's Executive Branch through appropriate departments and agency partners to ensure a steady flow of materials that are diverted from the landfill through the County's resource management system?
4. RIC components including partnering enterprises, and rollout process
5. Facility type and location
6. Additional sourcing of materials for participating enterprises and marketing products and services
7. Budget and funding sources

Conclusion - Reuse Innovation Center

The Agency affirms that its Board and Staff are committed to better understanding the new concept of deconstruction vs. demolition, the implications of C&D recycling, and the building materials reuse and circular economy that is growing across New York State. The Agency is committed to finding ways of enhancing its resource recovery abilities to find practical and economical ways of diverting construction and demolition materials from disposal streams. Essential to an integrative approach to materials management, the Agency is also deeply committed to finding ways of supporting and expanding local reuse programs to help extend the useful life of gently used consumer goods and divert materials from disposal streams. And lastly, it appears that both the County and the Agency agree that more analysis on a centralized versus decentralized or hybrid approach to reuse would be very beneficial to decision making.

At present, the Agency has not developed a formal stance on the Reuse Innovation Center project, likely due to the unanswered questions, the timing of the final report, and the transitional nature of Agency leadership. Local County legislators and other stakeholders continue to urge the Board of Directors to consider what the Agency's role in this project should be and continue to debate the merits of some of the policies suggested, such as implementing flow control for Construction and Demolition materials. In response to this report, the County and the Agency should work cooperatively to further seek answers to the various questions generated by the report and the consultant's findings, though the process is somewhat unclear with the study reaching completion and lack of funding. Fortunately, there is a clear and growing interest in these themes, topics, and materials management strategies statewide and the Agency can take full advantage of the greater discussion about the building materials reuse and circular economy in New York State and how it may be implemented locally.

In the immediate next two years of the Local Solid Waste Management Plan, the Agency will continue to evaluate the Reuse Innovation Center Feasibility Study documents with the new, incoming Executive Director and continue Agency discussions with the Board of Directors, staff, and other key stakeholders. The Agency can remain proactive by seeking opportunities to learn about state initiatives or grassroots organizations with expertise in materials reuse programs, deconstruction, and other best practices and resources for comparative and evaluative purposes. The Agency Board and Staff can evaluate how to improve or expand Construction & Demolition Debris management practices, a major focus of the Reuse Innovation Center project. As more research is completed, the staff hopes to gain more insight about policy framework regarding flow control of C&D or model

deconstruction ordinances in effect in other NYS communities. Lastly, the staff's ongoing efforts to update and maintain lists of local reuse and repair businesses can also play a key role in supporting awareness and understanding of the Reuse Innovation Center project in the future. These and other key points are outlined in Section Four, Implementation Schedule Updates.

3.4 Stony Brook University Waste Data and Analysis Center

In 2021, the Agency agreed to participate in Stony Brook University's Waste Data Analysis Center research project sponsored by the NYS Department of Environmental Conservation. The goal of the research project is to *"explore how solid waste and recycling is currently transpiring in New York and to develop recommendations for how it can be improved to achieve a more environmentally sustainable New York."* One of the research objectives involves sampling solid waste and recyclables at waste management facilities throughout New York State.

For one week each year, over a total period of five years, the research team will be onsite at both UCRRA facilities conducting waste audits. Participation in the research study is at no cost or financial obligation to UCRRA. All necessary equipment required to execute the study is delivered, maintained, and removed at the end of a waste audit sampling day. The Agency and the researchers work collaboratively to ensure the research study is conducted in an extremely safe and sanitary manner.

A focus of the Summer 2022 effort (August 1-5) and the Summer 2023 effort (August 14-18) was a mixture of samples from curbside collection by large and medium scale haulers, MRDC wastes from local town transfer station drop off programs, and Kingston City curbside collection. A variety of dual stream recyclables (commingle) and mixed paper were also sampled from municipal sources.

In December of 2023, Agency staff received a preliminary draft summary from the previous year of waste sampling. Staff provided some clarifying comments to improve the draft, and a finalized report was received in late March 2024.

The following is an excerpt from the Executive Summary of the 200 Final Waste Characterization Report. Refer to Appendix E for the full report.

Approximately 3,200 lbs. of residentially and commercially generated MSW and recyclables were sorted into 43 categories from 16 samples at the Ulster and New Paltz transfer stations August 1-5, 2022....Percentage compositions of the samples were combined in several ways to generate estimates for the composition of Kingston City

MSW and recyclables, New Paltz Transfer Station MSW, and Ulster Transfer Station MSW and recyclables. MSW samples from commercial haulers and Municipal Recycling Drop-off Centers (MRDC) were also targeted for analysis in this study. Scale data for the sampling period were applied to the percentage estimates to create an estimate of the composition of materials managed by the City of Kingston, and also to estimate the total composition of materials through the Ulster Transfer Station. These data were combined with the New Paltz Transfer Station data and population estimates for Ulster County to create an estimate of the composition of curbside collected as well as MRDC collected MSW, and recyclables managed by the [UCRRA] over the sampling period. Distinctly, waste received by UCRRA includes both residentially generated and commercially generated MSW.

Key Findings

- A quarter of all discards managed by UCRRA was recyclables (nearly 8 lbs./p/wk). Paper recyclables (primarily mixed paper) outweigh container recyclables (primarily plastic recyclables) in disposed MSW, with paper recyclables being 50% greater.
- One-third of the MSW discards managed by UCRRA was compostable (about 11 lbs./p/wk), with food waste being the largest single component (more than 8 lbs./p/wk disposal rate). Compostable other paper and yard waste contribute smaller portions. The composition of compostables varies across locations, with the differences driven by differences in the percentages of food waste and yard waste.
- Approximately 40% (nearly 13 lbs./p/wk) of the total disposed MSW managed by UCRRA falls into the non-recyclable/non-compostable category. Non-recyclable plastics make up the largest portion, followed by other organics.
- For recyclables set outs in the City of Kingston, 90% of container recyclables were target recyclables, mostly glass and plastic recyclables (each about 40%, 0.6 lbs./p/wk). Non Recyclable plastics constituted the largest category of contaminants in the container set outs.
- Old newspaper (ONP) dominated the City of Kingston's paper recyclables, comprising over half of the total, while old corrugated cardboard (OCC) constituted only about 5%.

- Paper products from the MRF samples had minimal contaminants (2% or less). Mixed paper was the dominant component in the paper products (over 50%). Saugerties MRDC sample showed higher proportions of mixed paper and boxboard compared to the mixed paper sample.

Conclusion - Stony Brook Waste Audit

The Agency is committed to accessing the more accurate and scientific information available to guide its policies and long term decision making. It is essential the Board of Directors and Staff consider the nuisances and implications of waste composition when selecting any possible alternative technologies. The Agency acknowledges the information learned from the SUNY Stony Brook Waste Audit is incredibly valuable in this regard.

At present, the Agency has not fully reviewed this report with a new, incoming Executive Director, but may pursue a review process with Board members, the County of Ulster, the City of Kingston, and other interested stakeholders. The Waste Audit Study presents a very unique opportunity to review data about local waste composition metrics, evaluate how local disposal patterns compare among curbside collection vs. drop off, how metrics compare to state and national metrics, understand the prevalence of nonprocessable plastics in the waste stream, probe questions that may be beneficial to future solid waste management planning, and may also be helpful to analyze and inform future recycling compliance strategies.

In the immediate next two years of the Local Solid Waste Management Plan, the Agency will continue to evaluate the SUNY Stony Brook Waste Audit Report from 2022, and others as they become available. The Agency can remain proactive by continuing to participate in the study over the next few years to gather an even larger dataset about waste characterization.

3.6 Status of Organics Recycling Laws

Over the planning period, the implementation of the New York State Food Scrap Reduction and Recycling Law or the Ulster County Food Waste Prevention and Recovery Act were implemented.

The New York State Law became effective January 1st 2022, requiring large food scraps generators (who produce an annual average of 2 tons per week or more) to donate edible food and recycle all remaining food scraps if located within 25 miles of an organics recycler. On June 1, 2022 DEC published the updated list of designated food scraps generators (DFSG)

that are required to comply with the State Law for the 2023 regulation year. Compared to the DFSG list for 2022, the 2023 list includes 231 additional businesses or institutions as subject to the requirements of the law (statewide), a positive indication that the methodology to identify large generators was reviewed more comprehensively. In October 2023, NYS DEC published an updated 2024 list of designated food scraps generators (DFSG) and their requirements for compliance with the State Law. This new list brought the total number of regulated entities to one thousand one hundred and sixty four (1,164) businesses and institutions (statewide). All of these entities will be required to donate and four hundred and fifty eight (458) will be required to recycle their food scraps. The list identified approximately twenty seven (27) facilities in Ulster County, of which, only thirteen (13) are required to recycle. It is important to note that NYS DEC strives to calculate existing capacity for composting and uses this assessment to determine which entities may be required to donate versus recycle.

View 2024 list of Designated Food Scraps Generators regulated under the State Law: https://www.dec.ny.gov/docs/materials_minerals_pdf/dfsolist2024.pdf The list, as well as waiver information, compliance requirements, and current available resources, can be found on DEC's website: <https://www.dec.ny.gov/chemical/114499.html>. An annual report for State Law Implementation for regulation year 2022 can be found online: https://extapps.dec.ny.gov/docs/materials_minerals_pdf/2022foodannualreport.pdf

In 2019, the Ulster County legislature enacted the [Food Waste Prevention and Recovery Act](#), which became effective January 1st 2022. Similar to the State Law, the County Law requires large food scrap generators to separate food from the general waste stream and donate edible food and recycle all remaining food scraps. The County Law specifically identifies large generators as a person, business, entity, or institution that generates a certain amount of food scraps (as an annual average) at a single location. Large generators may include, but are not limited to, supermarkets, food service businesses, hotels, correctional facilities, entertainment venues, hospitals, nursing homes, schools, caterers, and food preparation and processing businesses.

At the time the law was written, local policy makers believed there was adequate composting capacity and educational resources in the County to expand far beyond the requirements of the State Law. Unlike the State Law, the County law requires composting regardless of the distance to the nearest processing facility, whereas the State Law would only apply to generators within 25 miles of a processing site. The State Law exempts hospitals, nursing homes, and K-12 schools, where the Ulster County law does not exempt these entities. Furthermore, unlike the State Law, the County Law provides that the annual tonnage criteria will gradually decrease each year. For the reporting period January 1, 2022, through

December 31, 2022, the law regulated generators producing greater than 1 ton of food scraps per week. For the reporting period January 1, 2023, through December 31, 2023, the law regulated generators producing greater than 0.75 tons of food scraps per week. As of January 1st 2024, the law applied to generators of 0.5 ton per week or more.

In October 2022, the Ulster County Department of Environment updated its list of large food scrap generators regulated under the law, adapted from NYS Pollution prevention's Institute Organic Resource Locator Tool, which is the same tool used for the State Law. Agency staff met with the Department to review outreach strategies for the upcoming year, and a similar process followed in October 2023. The Agency's Director of Sustainability maintained contact with the County staff to periodically receive updates on the law's implementation, and receive updated lists of the businesses required to comply. It was generally understood by both parties that enforcement would be managed by the Ulster County Department of the Environment, and that the Agency could assist with some of the educational aspects of informing businesses of local composting options. It was also mutually accepted that the Agency's Annual Waste and Recycling Report could serve as a reporting mechanism to measure compliance with the County's Law..

The following text is an excerpt from the Food Waste Prevention and Recovery Act Update for 2022 Regulation Year dated April 1st 2023. Refer to the Ulster County website for the full report.

Metrics for 2022 Regulation Year Metric Quantity

Number of identified large food scraps generators = 28

Number of exemptions granted and businesses determined closed = 10

Number of annual reports received (via UCRRA) = 11

Amount of food wasted donated = 79.6 tons

Amount of food waste diverted to industrial applications = 27.6 tons

Amount of food waste recycled/composted = 321.8 tons

Total amount of food waste diverted = 429.0 tons

Average solid waste diversion rate from reporting generators = 13.2%

Status of Implementation

Outreach & Education: The County's Environmental Outreach Manager position is tasked with conducting outreach and education to all generators regulated under the Law. The Environmental Outreach Manager contacted all regulated generators on multiple occasions in 2022 to provide technical

support and continues to conduct outreach to those generators that did not submit annual reports for 2022 with the goal of assisting regulated generators in completing the annual report to achieve a 100% response rate.

Exemptions: Of the twenty-nine (29) generators regulated in 2022, the County has granted exemptions for 10 entities. These exemptions are detailed in Attachment B.

Changes in the New York State Law: The [Department of the Environment] will continue to stay apprised of relevant State laws and policies as they relate to the County's Law.

a. Food Donation and Food Scraps Recycling Law: the [Department of the Environment] continues to align the Law's implementation with the NYS Law to the greatest extent possible, including using the State's methodology to identify County-regulated generators. The [Department of the Environment] and regular communications with State and P2I staff. The first Report to the Governor and Legislature is now available.

b. NYS Climate Action Scoping Plan: The final plan was released in January 2023, and the Waste Chapter identifies several strategies relevant to the regulation of food waste in New York State, including:

W1. Organic Waste Reduction and Recycling, which provides recommendations, including the following:

"The State should enact legislation to amend and expand the existing Food Donation and Food Scraps Recycling Law (2019) to include generators of one ton per week or more beginning in 2024, one-half ton per week in 2025, and all generators by 2028. Also, the law should be amended immediately to eliminate the 25-mile requirement and the exemptions"

2023 Regulation Year: The DoE completed notification of seventy-three (73) generators for the 2023 regulation year via letter in September of 2022. This notification letter included a fact sheet containing information about the law, points-of-contact and answers to frequently asked questions. The list of generators for the 2023 regulation year is available on the County's webpage linked above.

The Food Waste Prevention and Recovery Act Update for 2023 Regulation Year is not yet available at the time of this writing. During the period January 1, 2023, through December 31, 2023, the law regulated generators producing greater than 0.75 tons of food scraps per week. For the 2023 regulation year, 56 entities were identified that met the definition of large food scraps generator per the Law. In September 2023, regulated Large Food Scraps Generators were notified of status by the County. An updated list of regulated generators was published on the County's webpage. There were 44 new businesses that will be regulated in 2024, in addition to the 56 previously regulated establishments.

Conclusion - Status of Organics Recycling Laws

The Agency is committed to cultivating sustainable community systems and solutions for organics recovery and recycling. Staff has worked cooperatively with the Ulster County Department of Environment, occasionally receiving their referrals to educate large generators about local composting options, and by proactively collecting annual reports to provide for the Department's review. The Agency recognizes the potential positive impacts in waste diversion if these laws are successfully implemented and enforced to the full extent.

It is essential the Board of Directors and Staff consider that, to date, the implementation of the County Law has not had significant, direct impacts of increased organics volume processed by the Agency or county-wide at other composting operations. This may be in part because many of the County's top largest generators (such as grocery stores) were already composting when the law was first implemented. Additionally, dispute of status waivers, exemptions, and constant changes to the official list of regulated entities have made effective outreach a difficult moving target. The process to identify generators (relying on the Organics Resource Locator Tool) may be deficient. Various stakeholders have been vocal with concerns about the methodology, specifically the lack of K-12 schools effectively regulated by the law, inconsistencies in the lists of entities, low total number of regulated generators, and the high number of exemptions issued.

At present, the Agency is processing the maximum amount of organic materials allowable through its permit authorization as the law reaches the final implementation tier of generators producing 0.5 tons per week or more. In the immediate next two years of the Local Solid Waste Management Plan, the Agency maintains a goal of expanding its permitted capacity to further effectuate the successful continuation of these laws and is presently pursuing a permit modification to increase its allowable annual acceptance of wet tons of organics. Continued dialogue between the County's Department of Environment

and the Agency will be essential to ensure the effective implementation of the law and bring new businesses into compliance with the intent of the law. The Agency can remain proactive by continuing to develop useful educational resources for large generators about local composting options, and continuing to encourage the growth of community scale composting at large.

IV. IMPLEMENTATION SCHEDULE UPDATES

This section lists any revisions to the implementation schedule, and can be cross-referenced to the Implementation Schedule chart where they are highlighted in bold yellow indicating new revisions. The KEY noted after each task is a shorthand for which area of the Implementation Schedule that task can be found. Please note: the list below is not a comprehensive list of all tasks, only new or revised tasks. Refer to the Implementation Schedule for a full list of tasks. As noted in the Foreword of this document, new tasks are generally organized among several overarching concepts representative of the overall goals and strategies of this plan, which is useful for illustrative purposes.

KEY

ORG	Organics Diversion
FAC	Facility Upgrades and Improvements
LAW	Law and Legislation
STU	Feasibility Studies
TEC	Technology Assessment
EXP	Waste Export

Invest in sensible facility infrastructure development

- (2025) Monitor performance of the 2020-2021 Compost Facility Improvements, and evaluate impact on odor mitigation. Note: previously completed in 2022-2024, added to continue in 2025. (KEY: ORG)
- (2024) Per Capital Plan, complete general site/operational improvements for Electric Vehicle (EV) infrastructure. (KEY: FAC)
- (2024) Per Capital Plan, purchase Heavy Equipment (Excavator - New Paltz). Note: Previously planned for 2026, updated to 2024. (KEY: FAC)

- (2024) Per Capital Plan, purchase Heavy Equipment (Waste Handler Loader - New Paltz). (KEY: FAC)
- (2024) Per Capital Plan, implement floor repairs for New Paltz Transfer Station. (KEY: FAC)
- (2024) Per Capital Plan, purchase office vehicle(s) and pick up truck for use by Agency staff. (KEY: FAC)
- (2025-2026) Per Capital Plan, purchase Transportation Equipment - two Electric Vehicle (EV) Recycling Roll-Off trucks for operations. (KEY: FAC)
- (2027-2029) Evaluate the performance of the two EV Recycling Roll Off trucks and abilities to expand fleet of EV. (KEY: FAC)
- (2025) Per Capital Plan, purchase Materials Recovery Equipment (Skid Steer Loader w/Attachments & MRF Infeed Belt). Note - addressed some improvements in 2023 but will continue to pursue in 2025. (KEY: FAC)
- (2027) Per Capital Plan, purchase Compost Facility Equipment (Skid Steer Loader w/Attachments). (KEY: FAC)
- (2024) Plan energy efficiency upgrades to the existing Administration Building. Note: incomplete in 2023, will be pursued in 2024. (KEY: FAC)

Maintain excellence and excel at environmental and ABO compliance standards

- (2025) Initiate renewals for NYS DEC permit for the Ulster Transfer Station. (KEY: FAC)
- (2026) Initiate renewals for NYS DEC permit for the New Paltz Transfer Station. (KEY: FAC)
- (2024-2025) Research and implement technology needed for a Compost Facility weather station. Use data to enhance Compost Facility odor mitigation strategies. Note: this task was started but not completed in 2022-2023, and will continue to be evaluated in 2024-2025. (KEY: ORG)
- (2024 - 2029) Annual review of Mission Statement Performance Goals and Measurement Report and amend if necessary. In coordination with this, revise performance goals (re: mission statement) when necessary. Submit Measurement Report to the NYS ABO annually, as required. (KEY: LAW)
- (2024 - 2029) As required by Section 2824(2) of the Public Authorities Law (as amended by Section 18 of the Public Authorities Accountability Act) Board members should set minimum annual training goals to “participate in State approved training regarding their legal, fiduciary, financial and ethical responsibilities as board members of an authority within one year of appointment to a board” and individually report back to the Chair of the Board

of Directors any completed hours of required or continuing training to remain informed of best practices, regulatory, and statutory changes relating to effective oversight and governance. (KEY: LAW)

Improve organizational administration

- (2024) Seek a qualified candidate for Recycling Compliance Officer position. Note: this task was incomplete in 2022-2023, but will be pursued in 2024. (KEY: LAW)
- (2024) Seek a qualified candidate for Agency Attorney position. (KEY: LAW)
- (2024) Seek a qualified candidate for Agency Executive Director. Note: this task relates to all areas of the plan and operations. (KEY: LAW)
- (2024) Seek a qualified candidate for Recycling Department Administrative Assistant position. (KEY: EDU)
- (2026) (2029) Evaluate staffing plan as education programs grow and develop. (KEY: EDU)

Optimize transfer station waste diversions and resource recovery abilities

- (2024-2026) Promote local paint recycling options provided through Paint Care NY and advocate to MRDCs to participate in paint product stewardship program, as well as evaluate other opportunities to expand local paint recycling programs. Note: relates to a task from 2023 that was incomplete, expanded to 2024-2026. (KEY: EDU)
- (2027-2029) Maintain updated lists of local paint recycling options. (KEY: EDU)
- (2024) Evaluate abilities, programs, funding, etc. for implementing a residential battery recycling program. Note: relates to a task from 2023 that was incomplete, expanded to 2024. (KEY: FAC)
- (2025) Launch initiatives to effectively promote the new battery recycling program. (KEY: FAC)
- (2026-2029) Evaluate the success of the battery recycling initiative. Review metrics. Make improvements or expand the program. (KEY: FAC)
- (2025) Launch initiatives to effectively promote the new fluorescent lamp recycling program. (KEY: FAC)
- (2026-2029) Evaluate the success of the fluorescent lamp recycling initiative. Review metrics. Make improvements or expand the program. (KEY: FAC)
- (2024-2025) Continue to evaluate the Reuse Innovation Center Feasibility Study documents with the new incoming Executive Director. Continue

discussions among the Board of Directors and other key stakeholders regarding the RIC project. (KEY: STU)

- (2024-2029) Seek opportunities to learn about state initiatives or grassroots organizations with expertise in materials reuse programs, deconstruction, the building materials circular economy, and other resources that may be relevant to evaluating the Reuse Innovation Center project. (KEY: TEC)
- (2024-2025) Continue to evaluate improvements for management practices of Construction & Demolition Debris. (KEY: FAC)
- (2024) Gather information and continue discussions about existing policy framework regarding flow control of C&D or deconstruction ordinances (regarding Reuse Innovation Center project). (KEY: LAW)

Cultivate sustainable community systems for organics recovery and recycling

- (2024-2029) Continue to explore options to increase diversion of organics from landfilling. Note: this task was originally scheduled for 2022, updating to annually. (KEY: ORG)
- (2024-2025) Review contract with WeCare/Denali to continue biosolids composting partnership.
- (2025) Ulster County Food Waste Prevention & Recovery Act reaches full-scale implementation. Review available lists, reports, metrics, and resources and evaluate success of the local law's implementation to date. (KEY: LAW)
- (2026-2029) Continue to provide assessments and feedback about implementation of the Ulster County Food Waste Prevention & Recovery Act, or make recommendations based on evaluations. Note: previously was listed only in the year 2025, updating to annually. (KEY: LAW)
- (2024-2029) Evaluate success of enforcement practices. Note: previously was listed only in the year 2024, updating to annually. (KEY: LAW)
- (2024 - 2029) Evaluate success of bagged compost operation and sales strategies by reviewing end of year metrics, challenges, complaints, survey responses, etc. (KEY: ORG)
- (2024-2025) Research alternative sales outlets for bagged compost operation, such as through partnerships with MRDCs, local garden stores, special events, etc. (KEY: ORG)

- (2025 - 2026) Implement new sales strategies for bagged compost, informed by the research into new sales outlets and the program evaluation. (KEY: ORG)
- (2024-2029) Maintain excellence and excel at environmental compliance standards with regards to the operation of the Agency's Organics Recovery Facility. Monitor and evaluate the permit status, performance, complaints, cost analysis of the operation on an annual basis, and make adjustments as needed. (KEY: ORG)
 - Note: A task called "Continue food waste and composting programs" was previously scheduled for 2025 and 2028. This new, updated task (above) is more specific. Similarly, a task called "Evaluate the composting program" was originally scheduled for 2026. In practice, the Agency actively monitors the service and will do so annually. Similarly, a task called "Make changes to composting programs as needed to accommodate waste tonnages and economics" was originally scheduled for 2027. In practice, changes may be made in an ongoing manner. The new updated task (above) is more specific and encompasses all of these concepts.
- Note: some tasks in ORGANICS DIVERSION section were shifted by one or more years in the implementation schedule, and are listed below to note the change in date(s).
 - (2024) Revisit development of concepts and budget for a municipal organics recovery (MOR) pilot project for micro-hauling at MRDCs and municipal events. Conduct surveys of MRDCs to gauge interest in participation. Seek to secure grant funding for the project and begin developing agreements, program tools, and equipment if deemed feasible.
 - (2025) Develop tools and equipment, media kits, and other promotional items for the MOR project. Promote the program to 1-3 MRDCs and aid in launching the initiative by training new partners in composting and providing tools and equipment.
 - (2026) Monitor the quality of SSO from the MOR project. Evaluate successes, challenges, metrics of usage, cost savings to municipalities, and feasibility to expand to other MRDCs. Conduct another survey of MRDCs. Seek to purchase additional equipment and tools if necessary.

(2027) Implement expansion of the program to 1-3 additional MRDCs based on survey results. Continue to monitor the quality of SSO metrics of usage, etc. (2027-2029) Evaluate success of the MOR project and consider other ways to expand or set long term goals (review feasibility of other municipally sponsored programs like special events, farmers markets, etc.) based on previous years efforts and successes.

Foster a culture of environmental sustainability through outreach education

There are significant updates to this section. Several tasks were updated or were rephrased to provide more specific clarification about the Recycling Outreach Team taskwork and expected work products. These improvements also more closely align with the approved scope of work typically contracted through NYS DEC MWRR grants.

- Old tasks (EDU/ORG):
 - (2024-2029)Implement and evaluate public communications through print media advertising, social media, newsletters, flyers, and radio public service announcements.
 - (2024-2029) Annual review of website, flyers, brochures, etc. as needed.
 - (2029-2029) Promote tours and training events at the UCRRA facilities.
 - Continue to educate residents regarding mandatory source separation.
 - (2025) Continue promoting backyard composting and assist with implementation practices to residents, schools and business as needed.
 - (2025-2029) Continue to engage the community and respond to any concerns or questions.
 - Increase education in schools, and assist with implementation of new programs.
 - Alter education programs and techniques based on evaluation from previous year.
 - (2024-2029) Continue education and assistance for local businesses and establishments.

- New or updated tasks (EDU/ORG):
 - (2024-2029) Updates/distributes program media such as guides, brochures, contacts lists, flyers, posters, recycling bin stickers, signs, or other media and promotional items to aid in recycling/composting programs.
 - (2024-2029) Promotes recycling/waste reduction/composting messaging through UCRRA website, social media, e-newsletters, podcasts, newspaper, radio advertising, bus ads, or other means of communication.
 - (2024-2029) Facilitates presentations and workshops for businesses, schools, community groups, youth groups, and residents, to promote recycling, waste reduction, reuse, up-cycling, and composting.
 - (2024-2029) Tables at community events and fairs, and facilitates special recycling events for Earth Day, Compost Awareness Week, Plastic Free July, compost bin sales, or other recycling events.
 - (2024-2029) Conducts facility tours of the Material Recovery Facility, the Organics Recovery Facility, the Sustainable Living Center, and the home composting demonstration garden.
 - (2024-2029) Plans, implements, directs, and reports on the Agency's Household Hazardous Waste Program and promotes awareness of safe disposal practices and alternatives to household hazardous wastes.
 - (2024-2029) Conducts site visits and consultation services to implement or improve existing recycling, composting, or waste reduction programs.
 - (2024-2029) Recycling Outreach Team, acting as liaison for UCRRA Partners in Composting Program and UCRRA Dual Stream Recycling Program, works towards increasing public participation in both programs.

Additional new/updated EDU tasks are listed below, noting any timeline adjustments.

- (2024-2029) Conduct class exit surveys and solicit feedback from the public about the Agency's outreach and education programs to understand community concerns, topics of interest, accessibility to scheduled events and classes, and other feedback. Use survey responses to inform programmatic strategies. (KEY: EDU)
- (2024-2025) Finalize the Ulster County Recycling Ranger Program, promote the program to local schools, environmental youth groups and clubs, and implement to recognize youth ambassadors. (KEY: EDU)
- (2024) Develop a master list of local festivals, events, and fairs with contact information. (KEY: EDU)
- (2026) Update the master list of local festivals, events, and fairs with contact information. (KEY: EDU)
- (2024) Create a dedicated webpage of resources, including a new best practices guidebook, for festival/event waste-sustainability. (KEY: EDU)
- (2025) Initiate a targeted outreach campaign to local festival organizers to distribute the new best practices guide, web resources, and invite festival organizers to an event or presentation to promote the new festival bin rental program. Note: task "Targeted outreach to local special events and festivals to increase public space recycling" was originally scheduled for 2026 but is updated to 2025 to reflect the new festival bin rental program. (KEY: EDU)
- (2024-2025) Update recycling/trash/composting billboard signs that are inserted into the festival bin frames. (KEY: EDU)
- (2024 - 2029) Maintain records of inventory and usage of the festival/event bin rental program as bins are signed out and returned. (KEY: EDU)
- (2027) Evaluate the festival bin rental program and necessary next steps to improve or expand. (KEY: EDU)
- (2026) Targeted outreach and community engagement efforts to local multi-family dwellings, landlords, apartment complexes, etc. Note: originally scheduled for 2025 but updated to reflect the new focus on the festival bin rental program. (KEY: EDU)
- (2026-2027) Maintain communication with multifamily dwellings, landlords, apartment complexes, etc. regarding grant information, available programs, and resource material. Note: originally scheduled for 2025 but updated to reflect the new focus on the festival bin rental program. (KEY: EDU)

- (2026-2027) Update agency webpage "Resources for Landlords" to align with new outreach strategies, and any new media developed for this audience. (KEY: EDU)
- (2028-2029) Create a dedicated webpage of resources, "Resources for Institutions" to align with new outreach strategies, and any new media developed for this audience (health care, correctional, etc.). (KEY: EDU)
- (2024-2029) - Recruit, and train enrolled volunteers through the Master Composter Recycler Program. Offer engaging programs for volunteers to participate in and actively track and evaluate volunteer engagement. Note: task associated with creation of volunteer program was completed ahead of schedule. Updated to implement volunteer training and evaluate strategies annually. (KEY: EDU)
- (2024) Complete educational signs and displays for the UCRRA Sustainable Living Center classroom (co-located with Compost Bagging Facility). Launch opening of the Education Center for use in facility tours, educational classes, hands on workshops, etc. Note: This task was incomplete in 2023, will be pursued in 2024. (KEY: EDU)
- (2024-2025) Develop concepts for a UCRRA Compost Fair & Education Day Event in collaboration with Spring Compost Bin & Rain Barrel Sales and International Compost Awareness Week and other community organizations. Note: this task was not started in 2023, as scheduled, but will be pursued in 2024-2025. (KEY: EDU)
- (2026 - 2029) Evaluate the success of the Compost Fair & Education Day program. Identify ways of expanding or enhancing the program and implement changes. (KEY: EDU)
- Develop concepts for a county-wide America Recycles Day campaign, competition, or event. Note: this task was not started on 2023, as scheduled, but will be pursued in 2024-2025. (KEY: EDU)
- (2026 - 2029) Evaluate the success of the America Recycles Day program. Identify ways of expanding or enhancing the program and implement changes. (KEY: EDU)

Seek effective and economical ways to reduce the Agency's greenhouse gas emissions

- (2025-2026) Evaluate greenhouse gas emissions inventory of UCRRA operations. (Added to FACILITY UPGRADES)
- (2027) Plan energy efficiency upgrades to the existing Administration Building.
- (2024) Evaluate community solar contracts expiring, and evaluate on-site opportunities to develop photovoltaic system. (Added to FACILITY UPGRADES)
- (2027-2029) Implement energy efficiency upgrades to existing Administration Buildings. (Added to FACILITY UPGRADES)

Build strategic partnerships that enable regional coordination

- Note: some tasks in TECHNOLOGY ASSESSMENT section were shifted by one or more years in the implementation schedule, and are listed below to note the change in date(s).
 - (2025) Participation in regional meetings with local counties to investigate opportunities for collaboration and develop solutions to shared concerns. (KEY: TEC)
 - (2026) Evaluate concerns from regional meetings with local counties. Develop schedule, if feasible, to collaborate on waste programs. (KEY: TEC)
 - (2027) Determine if regionalization avenues are feasible based on meetings and collected data during previous years. (KEY: TEC)
 - (2028) Pursue regionalization if feasible, otherwise cease efforts and focus on other aspects of waste management. (KEY: TEC)

Investigate new waste technologies and final disposal solutions

- (2024-2025) Actively monitor the status of the Seneca Meadows Landfill. (KEY: EXP)
- (2024) Receive, review, and analyze results from SUNY Stonybrook Waste Audit Study. (KEY: STU)
- (2024) Complete landfill feasibility study - Resolution No. 2610, Approval of Cornerstone Engineering Proposal for Waste Management Strategies for Ulster County. (KEY: STU)

- (2024-2026) Evaluate landfill siting options and work with Agency Board, NYS DEC, Ulster County Planning Department and Department of the Environment, and other stakeholders to interpret results of the study, next steps, and implications for future updates to this plan. (KEY: STU)
- (2024) Evaluate results of the RFSI conducted during 2023 - Resolution No. 2586, Authorizing and Approving a Statement of Interest for the Diversion of Waste. Evaluate selection of any alternative technologies to further pursue, next steps, and implications for future updates to this plan. (KEY: TEC)
- (2025) Participation in regional meetings with local counties to investigate opportunities for collaboration and develop solutions to shared concerns (KEY: TEC)

V. APPENDIX

UCRRA Local Solid Waste Management Plan Implementation Schedule								
Note: Each vertical column of this sheet indicated the implementation year. If a task appears once in a text box spanning only one year, it should be interpreted that task be completed once in that year. If a task appears in a text box that spans multiple years, it should be interpreted that the task is to be completed annually for each of those years. Newly added tasks during this Biennial Update (2022-2023) are highlighted yellow. Any tasks that were removed from the schedule are highlighted red.								
	2022	2023	2024	2025	2026	2027	2028	2029
Solid Waste Management Plan	<input type="checkbox"/> Implementation							
	<input type="checkbox"/> Biennial update to NYSDEC		<input type="checkbox"/> Biennial update to NYSDEC		<input type="checkbox"/> Biennial update to NYSDEC		<input type="checkbox"/> Biennial update to NYSDEC	
		Review the updated New York State Solid Waste Management Plan when it becomes available, and identify elements of the State plan that can enhance the local solid waste management plan.					<input type="checkbox"/> Begin to Draft a new LSWMP for the following 10-year planning period	<input type="checkbox"/> Finalize and adapt a new LSWMP for the following 10-year planning period
Law and Legislation	<input type="checkbox"/> NYS Food Donation and Food Scrap Recycling Act to be put into effect							
	<input type="checkbox"/> Provide education about source separation requirements and consequences of failure to comply; hauler notices to customers, website							
	<input type="checkbox"/> Provide education / assistance regarding expectations and enforcement steps to waste haulers							
	<input type="checkbox"/> Provide updated laws and regulations to all staff members							
	<input type="checkbox"/> Post new laws and regulations to website							
	<input type="checkbox"/> Actively enforce laws and regulations through education and fines as needed							
	<input type="checkbox"/> Inspection of waste hauler collection practices and enforcement							
				<input type="checkbox"/> Evaluate success of enforcement practices on an annual basis by reviewing items such as monthly compliance officer reports, hauler recycling plans submitted during Q1 of each year, annual recycling reports submitted during Q1 of each year, the number of recycling complaints received each year, status of any enforcement actions, or other similar metrics.				
	Ulster County Compost Law ticks down to >1 tpw. Maintain contact with County Departments to monitor implementation of the law.	Ulster County Compost Law ticks down to >0.75 tpw January 1st. Maintain contact with County Departments to monitor implementation of the law.	Ulster County Compost Law ticks down to >0.50 tpw January 1st. Maintain contact with County Departments to monitor implementation of the law.	Continue to provide assessments and feedback about the implementation of the Ulster County Composting law by reviewing the contact list of large food scraps generators (updated by the County each September), the number of waivers or dispute of status claims, tonnage reports from the Agency or other compost sites as via the annual recycling reports submitted during Q1 of each year, the annual report prepared by the Ulster County Department of Environment, or other available metrics. Using these tools, share any necessary recommendations based on these evaluations via meetings with the Ulster County Department of Environment.				
	Seek a qualified candidate for Recycling Compliance Officer position.		Conduct stakeholder engagement process to advocate for amendments and improvements to the Ulster County Mandatory Source Separation & Recycling Law					
Engage with local, regional, and statewide waste and recycling groups, organizations, and councils to learn about best practices emerging concepts in sustainable materials management.								
Recyclables	<input type="checkbox"/> Review pricing for recyclables market							
	<input type="checkbox"/> Review bids for the sale of recyclable commodities and the Agency's MRF Cost Center Analysis report on a monthly basis to identify system enhancements to increase recycling rates and/or optimize recycling revenue.							
	<input type="checkbox"/> Monitor local and regional development of recycling programs and initiatives							
Data	<input type="checkbox"/> Collect tonnages of all materials brought into and shipped from UCRRA							
	<input type="checkbox"/> Collect data pertaining to facilities outside of UCRRA							
	<input type="checkbox"/> Reach out to large generators, including industrial waste generators, within the county on a yearly basis to understand tonnages produced							
	<input type="checkbox"/> Continue to collect data on all materials generated in Ulster County that are transported outside of the county							
	<input type="checkbox"/> Submit yearly solid waste and recycling reports to NYSDEC							
Finance	<input type="checkbox"/> Use information collected to help establish tipping fees and budget estimates							
	<input type="checkbox"/> Continue to pay down debt service							
	Apply for grants funding HHW events and educational programs							
	<input type="checkbox"/> Secure funding for additional feasibility studies		<input type="checkbox"/> Secure funding as needed to construction of new buildings at the Ulster Transfer Station	<input type="checkbox"/> Secure funding as needed for technology and equipment improvements				
	Evaluate and update capital plan on an annual basis as necessary.							
Feasibility Studies	<input type="checkbox"/> Evaluate results of the four feasibility studies conducted during the first two years of the plan. Select an alternative technology to pursue.	<input type="checkbox"/> Begin designing and permitting process for construction of selected waste management technology	<input type="checkbox"/> Secure funding for capital costs and investment of new technology	<input type="checkbox"/> Request bids to clear required acreage and for construction	<input type="checkbox"/> Begin construction of new facility		<input type="checkbox"/> Finish construction and prepare to open facility	<input type="checkbox"/> Facility is operational
	The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP. The operational review may result in additional staffing needs , improvements, discussions of feasibility studies, etc.	<input type="checkbox"/> Public announcement/hearing on proposed concept for new waste management infrastructure		<input type="checkbox"/> Address any comments and questions from public				
	Create GIS Map tools to evaluate landfill siting options and work with Agency Board, NYS DEC, Ulster County Planning Department and Department of the Environment, and other stakeholders to interpret results of the study and implications for future updates to this plan.							
					Compile results from Stonybrook Waste Audit Study and work with Agency Board and other stakeholders to interpret results of the study and implications for future updates to this plan.			
	Participate in Stonybrook University Waste Data & Analysis Center Waste Audit							
	Conduct interviews, meetings, facilitate presentations to UCRRA Board of Directors - to actively network with public and private sector leaders in the solid waste industry to gain awareness of emerging technologies, opportunities for regional development projects, or public-private partnerships.							

Facility Upgrades and Improvements	<input type="checkbox"/> Promote new residential drop-off center at the Ulster Transfer Station		<input type="checkbox"/> Finish construction on the new administration building	<input type="checkbox"/> Start to convert old administration building into educational learning center	<input type="checkbox"/> Renew New Paltz Transfer Station lease agreement with the Town of New Paltz	<input type="checkbox"/> Make facility improvements and upgrades as needed		
	<input type="checkbox"/> Acquire required permits to build HHW center and new administration building	<input type="checkbox"/> Commence construction on the new administration building	<input type="checkbox"/> Set up offices with proper equipment and technology	<input type="checkbox"/> Finish HHW center construction	<input type="checkbox"/> Open educational learning center	<input type="checkbox"/> Evaluate older structures, roadways, and storm management infrastructure	<input type="checkbox"/> Begin to replace older or outdated equipment and infrastructure	<input type="checkbox"/> Preventative maintenance to equipment and facility infrastructure
	The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP over the planning period. The operational review may result in additional staffing needs or improvements.		<input type="checkbox"/> Start construction of the HHW center	<input type="checkbox"/> Inventory rolloff containers, yellow iron and trucks for upgrades or replacement				
	Create succession planning for retiring Administration and Operations staff.	Investigate site potential for creating additional facilities for existing waste diversion practices. The Agency Board is planning a full operational review and long term strategic plan to enhance the LSWMP over the next two year planning period.			<input type="checkbox"/> Open HHW center			
	Monitor performance of the 2020-2021 Compost Facility Improvements, and evaluate impact on odor mitigation.							
		Evaluate abilities, programs, funding, etc. for implementing a residential battery recycling program.	Evaluate the success of the new battery recycling initiative by reviewing metrics such as the weight or volume of batteries collected, the number of participants served, the number of drop off sites created, feedback from customers through surveys or complaints, or any other available metrics. Based on these evaluations, identify any improvements so as to update the plan on how to expand the service in the near future.					
			Evaluate abilities, programs, funding, etc. for implementing a residential fluorescent lamp recycling program.	Evaluate the success of the new fluorescent lamp recycling initiative by reviewing metrics such as the weight or volume of lightbulbs collected, the number of participants served, the number of drop off sites created, feedback from customers through surveys or complaints, or any other available metrics. Based on these evaluations, identify any improvements so as to update the plan on how to expand the service in the near future.				
	Per Capital Plan, purchase Transportation Equipment (roll off truck), Heavy Equipment (Waste Handler Loader-Ulster & Refurbish CAT320 Excavator), Buildings & Grounds (mini excavator),	Per Capital Plan, purchase Heavy Equipment (Excavator- Ulster), Materials Recovery Equipment ((Skid Steer Loader w/Attachments & MRF Infeed Belt)	Per Capital Plan, purchase Heavy Equipment (Waste Handler Loader- New Paltz)		Per Capital Plan, purchase Heavy Equipment (Excavator - New Paltz)	Evaluate other needs/improvements/expansions to the Administration Building.		
	Evaluate and update capital plan on an annual basis							
	Evaluate greenhouse gas emissions inventory of UCRRA operations	Plan energy efficiency upgrades to the existing Administration Building - (converting lighting to LED and sensor based lighting, convert to water conserving toilets, replace roof?)	Evaluate community solar contracts expiring, and evaluate on-site opportunities to develop photovoltaic system	Implement energy efficiency upgrades to existing Administration Building.				
Organics Diversion	<input type="checkbox"/> Promote backyard composting and assist with implementation practices to residents, schools and business as needed							
	<input type="checkbox"/> Monitor local and regional developments of organics recovery programs and initiatives							
	<input type="checkbox"/> Maintain memberships with USCC and STA							
	<input type="checkbox"/> Reach out to waste generators to inform them of the NYS Food Donation and Food Scrap Recycling Act requirements, encourage reduction and reuse of food scraps, i.e.			<input type="checkbox"/> Continue education and assistance for local businesses and establishments	<input type="checkbox"/> Evaluate the composting programs	<input type="checkbox"/> Make changes to composting programs as needed to accommodate waste tonnages and economics	<input type="checkbox"/> Continue education and assistance for local businesses and establishments	
	Evaluate success of bagged compost operation and sales strategies by reviewing end of year metrics at the end of each bagged compost season (April – November). Review metrics such as the number of bags sold, the annual sales revenue, the number of customers served, any operational challenges or problems resolved, the number of or content of any customer complaints, reviews, survey responses, etc.							
				<input type="checkbox"/> Continue food waste and composting programs		<input type="checkbox"/> Evaluate biosolid disposal	<input type="checkbox"/> Determine if biosolid disposal system needs to be altered based on previous year evaluation and data collection	<input type="checkbox"/> Evaluation of organics program over last 10-year period
	<input type="checkbox"/> Install composting demonstration site for hands-on training						<input type="checkbox"/> Continue food waste and composting programs	
	<input type="checkbox"/> Evaluate the number of containers or bins that will be required for food waste program at Ulster							
	<input type="checkbox"/> Continue to explore options to increase diversion of organics from landfilling							
	Monitor performance of the 2020-2021 Compost Facility Improvements, and evaluate impact on odor mitigation.							
Research systems for tote bin cleaning stations as possible addition to Organics Recovery service. Research grant funding.	Pending availability of funding, pursue tote bin cleaning station for Organics Recovery Facility.	Facilitate a "community consortium" on wasted food reduction and donation, focused on expanding access to donating excess edible food for people. Consortium culminates in forum or meeting(s). Discuss and develop strategies and duties to enhance food recovery.	Implement strategies developed by "community consortium".	Evaluate success of "community consortium" efforts.	Continue "community consortium" on wasted food reduction and donation, focused on donating excess food for livestock farm animals. Discuss and develop strategies and duties to enhance food recovery.	Implement strategies developed by "community consortium".	Evaluate success of "community consortium" efforts.	
Develop concepts and budget for a municipal organics recovery (MOR) pilot project for microhauling at MRDCs and municipal events. Conduct surveys of MRDCs to gauge interest in participation. Seek to secure grant funding for the project and begin developing agreements, program tools, and equipment if funded.	Develop tools and equipment, media kits, and other promotional items for the MOR project. Promote the program to 1-3 MRDCs and aid in launching the initiative by training new partners in composting and providing tools and equipment.	Monitor the quality of SSO from the MOR project. Evaluate successes, challenges, metrics of usage, cost savings to municipalities, and feasibility to expand to other MRDCs. Conduct another survey of MRDCs. Seek to purchase additional equipment and tools if necessary.	Implement expansion of program to 1-3 additional MRDCs based on survey results. Continue to monitor the quality of SSO metrics of usage, etc.	Evaluate success of the MOR project and consider other ways to expand (review feasibility of other municipally sponsored programs like special events, farmers markets, etc.)	Set longterm goals for the MOR project based on previous years efforts and successes. Implement.			

	Research and implement technology needed for a Compost Facility weather station. Use data to enhance Compost Facility odor mitigation strategies.				Promote and encourage the growth of community composting initiatives through the use of community garden spaces at community centers like religious congregations, libraries, parks, etc. Expand on initiatives that target residential composting not addressed by either local or state law.		
Education and Outreach	<input type="checkbox"/> Participation in regional conferences and trainings to obtain information on evolving solid waste management technology and practices, including recycling and composting						
	<input type="checkbox"/> Implement and evaluate public communications through print media advertising, social media, newsletters, flyers, and radio public service announcements						
	<input type="checkbox"/> Annual review of website, flyers, brochures, etc. as needed						
	<input type="checkbox"/> Measure effectiveness of education programs						
	<input type="checkbox"/> Actively engage the community to be involved with recycling and waste programs			<input type="checkbox"/> Promote new learning center at Ulster Transfer Station			
	<input type="checkbox"/> Targeted outreach and community engagement efforts to local public schools	<input type="checkbox"/> Targeted outreach and community engagement efforts to local multi-family dwellings, landlords, apartment complexes, etc.		<input type="checkbox"/> Targeted outreach and community engagement efforts to local special events and festivals to increase public space recycling		<input type="checkbox"/> Targeted outreach and community engagement efforts to local health care facilities, correctional facilities, institutions, etc.	
	<input type="checkbox"/> Maintain communication with all schools regarding grant information, available programs, and resource material	<input type="checkbox"/> Maintain communication with multi-family dwellings, landlords, apartment complexes, etc. regarding grant information, available programs, and resource material		<input type="checkbox"/> Maintain communication with special events and festivals regarding grant information, available programs, and resource material		<input type="checkbox"/> Maintain communication with health care facilities, correctional facilities, institutions, etc. regarding grant information, available programs, and resource material	
	<input type="checkbox"/> Provide tours and hands-on learning experiences to the public		<input type="checkbox"/> Continue promoting backyard composting and assist with implementation practices to residents, schools and business as needed	<input type="checkbox"/> Increase education in schools, and assist with implementation of new programs			
				<input type="checkbox"/> Continue to engage the community and respond to any concerns or questions			
	<input checked="" type="checkbox"/> Build the internal components for the mobile classroom and begin trial offsite sessions with local community entities	<input checked="" type="checkbox"/> Schedule routine sessions with local community entities and school using the mobile classroom	<input checked="" type="checkbox"/> Schedule routine sessions with local community entities and school using the mobile	<input checked="" type="checkbox"/> Evaluate effectiveness of mobile classroom	<input checked="" type="checkbox"/> Update content as practical in mobile classroom		
	Complete educational signs and displaysfor the UCRRA Sustainable Living Center (co-located with Compost Bagging Facility). Launch opening of the Education Center for use in facility tours, educational classes, hands on workshops, etc.	<input type="checkbox"/> Continue to promote new educational programs offered at UCRRA.					
	Launch grand opening of UCRRA Home Composting Demonstration Garden for use in facility tours, educational classes, hands on workshops, etc.	Develop concepts for a UCRRA Compost Fair & Education Day Event in collaboration with Spring Compost Bin & Rain Barrel Sales and International Compost Awareness Week and other community organizations.	<input type="checkbox"/> Evaluate the success of the new Compost Fair & Education Day program by reviewing the number of participants, number of volunteers, number of vendors, advertising strategies/budget, guest experience surveys, vendor surveys, any logistical challenges, or any other available metrics. Identify ways of expanding or enhancing the program based on these evaluation tools so as to update this plan or implement any changes.			<input type="checkbox"/> Discuss source separation techniques at correctional facilities and hospitals	<input type="checkbox"/> Continue to increase communications and programs with correctional facilities, hospitals, and other large food waste producers
	Create UCRRA video series to facilitate virtual tours and improve community literacy about UCRRA programs and services.					<input type="checkbox"/> Continue to educate residents regarding mandatory source separation	
	Launch Library Display Initiative to allow community centers to borrow educational installations about program themes and messages.	Develop concepts for a county-wide America Recycles Day campaign, competition, or event.		Evaluate the success of the new America Recycles Day program by reviewing the number of participants, number of volunteers, number of vendors, weight or volume of materials collected, advertising strategies/budget, guest experience surveys, vendor surveys, any logistical challenges, or any other available metrics. Identify ways of expanding or enhancing the program based on these evaluation tools so as to update this plan or implement any changes.			
				Develop concepts for a 10 week certification course training program to certify 'Ulster County Zero Waste Ambassadors' or similar training certification program.	Recruit and Implement strategies for the Ulster County Zero Waste Ambassadors training program, and utilize community participants to expand on UCRRA educational reach.		
	(2022) Paint Stewardship program (PaintCare NY) anticipated to launch May 2022. Expand Agency's Household Hazardous Waste collection program to include latex paint and other acceptable architectural coatings. Refine communications about HHW program as necessary to accommodate Paint Care program.	Evaluate PaintCare NY program and advocate to MRDCs to participate in paint stewardship. Evaluate other opportunities to expand Paint Care service and programs.				<input type="checkbox"/> Promote tours and training events at the UCRRA facilities	
Waste Export	<input type="checkbox"/> Continue to ship MSW and C&D via long haul trailers to Seneca Meadows Landfill (assumed through 2024)			<input type="checkbox"/> Continue to ship MSW and C&D via long haul trailers to a Landfill (anticipated through 2029)			<input type="checkbox"/> Continue to ship residual waste to a landfill if needed
			<input type="checkbox"/> Rebid trucking and disposal contracts for next 5 years				<input type="checkbox"/> Evaluate need for rebidding contracts
Technology Assessment	<input type="checkbox"/> Continue to evaluate different and emerging technologies for waste management						
	<input type="checkbox"/> Ongoing regionalization update and review of nearby counties	<input type="checkbox"/> Participation in regional meetings with local counties to investigate opportunities for collaboration and develop solutions to shared concerns	<input type="checkbox"/> Evaluate concerns from regional meetings with local counties. Develop schedule, if feasible, to collaborate on waste programs.	<input type="checkbox"/> Determine if regionalization avenues are feasible based on meetings and collected data during previous years.	<input type="checkbox"/> Pursue regionalization if feasible, otherwise cease efforts and focus on other aspects of waste management		
	Engage with statewide waste and recycling groups, organizations, and councils to learn about best practices and emerging concepts in sustainable materials management.						
	Participate in the Hudson Valley Regional Council Materials Management working group and maintain communication with neighboring County waste and recycling departments and Authorities to stay apprised of local tipping fee rates, the development of new facilities, innovative recycling programming, and regional waste-sustainability efforts.						