

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Bureau of Solid Waste Management
625 Broadway, Albany, New York 12233-7260
P: (518) 402-8678 | F: (518) 402-9024
www.dec.ny.gov

June 28, 2022

Angelina Brandt, Director of Sustainability
Ulster County Resource Recovery Agency
999 Flatbush Road
Kingston, NY 12401

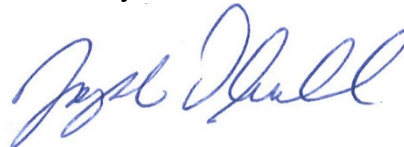
Dear Angelina Brandt:

Re: Ulster County Local Solid Waste Management Plan (LSWMP) Biennial Update, Reporting Period 2020-2021

Ulster County (County) submitted a Biennial Update dated April 29, 2022. The Department has reviewed the Biennial Update and has determined that the submittal adequately addresses all the LSWMP Biennial Update elements as required by 6 NYCRR Part 366-5.1. The Biennial Update is hereby approved.

The Department thanks you for your continued efforts to implement the County's solid waste management program. The next Biennial Update will be due dated May 1, 2024. If you have any questions concerning this letter, please contact Paola Munar-Moreno via phone at 518-402-8715 or by e-mail at planning@dec.ny.gov.

Sincerely,



Joseph O'Connell, P.E.
Director
Bureau of Solid Waste Management

Ulster County Resource Recovery Agency Local Solid Waste Management Plan Biennial Update (May 2021) Planning Period 2020-2021

Prepared by
Angelina Brandt, Director of Sustainability
Ulster County Resource Recovery Agency
999 Flatbush Road Kingston NY
www.UCRRA.org
845-336-0600

Appendix

FOREWARD	4
SUMMARY REPORT	6
1.1 Changes in the Planning Unit	6
1.1.1 Planning Unit Members	6
1.1.2 Population	6
1.1.3 Significant County Characteristics	6
1.1.4 Current Solid Waste Management Activities	7
1.2 Waste Generation and Disposal Data	7
1.2.1 Comparison to Waste Data Projections & Deviations	9
1.3 Significant Changes to Waste Management Practices	12
1.3.1 COVID-19	12
1.3.2 Compost Facility Improvements	15
1.3.3 Waste Diversion Practices	17
1.3.4 Biosolids Composting	19
1.3.5 Paint Stewardship	20
1.4 Outreach Education and Community Engagement Activities	21
1.4.1 Special Projects & Grants	21
1.4.2 Recycling Outreach Team Seminars	25
1.4.3 Facility Tours	28
1.4.4 Consultation Services & Site Visits	28
1.4.5 Use of Social Media	30
1.4.6 New Agency Publications and Media	30
1.4.7 Home Composting & Rain Barrel Sale Event	34
1.5 Recycling Compliance Activities	34
1.5.1 Hauler Recycling Plans	35
1.5.2 Annual Reporting	36
1.5.3 Recycling Enforcement	38
1.6 Plan Implementation Challenges	39
1.6.1 Delays in LSWMP Approval Process	39
1.6.2 Covid-19 Pandemic	39
1.6.3 New Executive Leadership	40
1.6.4 Delays in Facility Operating Permit Authorization	41
1.6.5 Financial Review of Proposed Projects	42
1.6.6 Ulster County Landfill Feasibility Study	42

	2
1.6.7 Compost Bagging Operation	44
1.7 Implementation Schedule Status	45
1.7.1 Year 1 - 2020 Implementation Schedule	45
1.7.2 Year 2 - 2021 Implementation Schedule	57
WASTE AND RECYCLABLES DATA	71
2.1.1 (2020) Waste & Recyclables Materials Summary by Category	71
2.1.2 (2020) Waste & Recyclables Graphs Summary	74
2.1.3 (2020) Waste and Recyclables Summary by Final Disposal and Recycling Destinations	76
2.2.1 (2021) Waste & Recyclables Materials Summary by Category	90
2.2.2 (2021) Waste & Recyclables Graphs Summary	94
2.2.3 (2021) Waste & Recyclables Summary by Final Disposal & Recycling Destinations	96
SIGNIFICANT PLAN UPDATES	116
3.1 Compost Program Expansion	116
3.2 Education Program Expansion	117
3.3 Facility Expansion (Eco Park)	117
3.4 Technology Selection Process	118
3.5 Stony Brook University Waste Data and Analysis Center	121
3.6 Status of Organics Recycling Laws	122
IMPLEMENTATION SCHEDULE UPDATES	123
APPENDIX	129
Appendix A - Recycling Program Media Sample	
Partners in Composting Guidebook	(LINKED)
Backyard Composting Guidebook	A-1
Home Guide to Reducing Food Waste	A-13
Recycle Right Poster Series	A-20
Waste Reduction & Recycling Guide for Businesses, Schools, Institutions	(LINKED)
7R's to Rethink Waste Flier	A-26
Bin Sticker Series	A-30
USCC Compost Use Rack Cards	A-33
Dual Stream Recycling Guide	A-37
Plastic Free July Flier	A-41
Appendix B - Miscellaneous Annual Reports	
2020 Permitted Transfer Facility Annual Report (New Paltz)	B-1
2020 Permitted Transfer Facility Annual Report (Ulster)	B-15
2020 Recyclables Handling & Recovery Annual Report (MRF)	B-29
2020 Permitted Facility Annual Report (Composting)	B-38
2020 Electronic Waste Received by Consolidation Facility Report	B-48

2020 Comprehensive Annual Financial Report	(LINKED)
2021 Permitted Transfer Facility Annual Report (New Paltz)	B-54
2021 Permitted Transfer Facility Annual Report (Ulster)	B-68
2021 Recyclables Handling & Recovery Annual Report (MRF)	B-82
2021 Permitted Facility Annual Report (Composting)	B-91
2021 Household Hazardous Waste Collection Event Annual Report	B-101
2021 Comprehensive Annual Financial Report	(LINKED)

Appendix C - Ulster County Annual Waste & Recycling Report

2020 Annual Rec Report Memo	C-1
2020 Report Form	C-3
2020 Executive Summary	C-12
2021 Annual Rec Report Memo	C-33
2021 Report Form	C-35
2021 Executive Summary	C-41
Ulster County Annual Recycling Report Webpage	(LINKED)

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 UCRRA 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 1 and Year 2 of the Plan, pursuant to 6 CRR-NY Part 366-5.1.*

During this time, the Agency faced challenges in completing the scope of objectives outlined in the original LSWMP. Notably, New York State was among the regions most critically affected by the global coronavirus pandemic COVID-19 (SARS-CoV-2) in 2020-2021. The Agency continued to carry out essential public services and successfully maintained critical solid waste management infrastructure, through strain on the overall workforce, changes to the flow of waste, and other health restrictions. Simultaneously, the Agency managed a significant shift in executive leadership as its Board of Directors accepted the resignation of the former Executive Director, and restructuring of the organization was delayed for several months. These are some of the examples that were significant factors in the plan’s Implementation challenges discussed in this document.

Despite these challenges, the Agency also maximized opportunities to effectively meet many implementation objectives of the plan, but in some cases, did so in a manner that was more logistically viable and financially efficient than what had been outlined under the former executive administration. For instance, the Agency invested more than \$1.2 million in expanding and improving its Organics Recovery Facility, and found meaningful ways to expand local organics recycling capacity to prepare for the impact of local and state composting laws. The Agency invested in other long term facility improvements, such as a scale replacement capital project of more than \$500,000, a project that more adequately meets the immediate essential facility infrastructure needs and needs of the future. The Agency maintained a proactive approach to long term planning by continuing to survey large waste generators, collecting data about the waste stream, and taking other steps to investigate and evaluate final

disposal solutions and alternatives to landfilling. The Agency's Recycling Outreach Team implemented successful community engagement initiatives, expanding educational projects and partnerships and creating new tools that enhance the education program. 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 seeking 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 reflect the experiential knowledge and professional capacity of the staff, and meet the essential needs of the Agency for the successful continuation of Ulster County's solid waste management program. 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 the planning tool can be useful. For the purpose of this biannual update and revised implementation plan, several new strategies are discussed. The following guiding principles are established to provide clarification and justification of these strategies:

- 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 and 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 2020-2021 the global pandemic of coronavirus disease (SARS-CoV-2 also known as covid-19) prompted families and individuals living in urban centers to relocate to suburban and rural areas. This was well documented in local and national news outlets, referencing reports by the U.S. Postal Service (USPS) that tracked change of address and mail forwarding requests received by USPS. A May 2020 [news article by the New York Times](#) suggests that Kingston NY was among the top ten destination cities that received mail forwarding services by USPS. **While the total number of new residents in Ulster County is unsubstantiated, the Agency recognizes that an increase in population may result in increases to the waste stream.**

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. The Agency recognizes the impact of the COVID-19 pandemic on these facilities. Certain businesses faced mandatory shutdowns to promote safe health practices, while others were deemed critical essential service infrastructure. Some retail and food businesses may not have recovered fully from the economic impact of statewide closings and other restrictions. For the purpose of this biennial update, the Agency acknowledges these economic changes, though **it's unclear if there are long term significant changes in the characteristics of the planning unit due to COVID-19.**

1.1.4 Current Solid Waste Management Activities

The LSWMP summarizes current solid waste management activities in the planning unit (p.19-21) including materials accepted for disposal at UCRRA, a discussion of the Flow Control Law, and the general structure of how residents, businesses, and municipalities have access to waste disposal and recycling programs. **The descriptions provided in the LSWMP factually represent the general flow of wastes 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 UCRRA waste stream, thus this section focuses on waste and recyclables received by UCRRA facilities. **This biennial update is further enriched with detailed waste and recycling metrics derived from UCRRA's Annual survey of large waste generators (please refer to Section 2.1.1 - 2.2.3 of this document for this information.)**

Figure 1. Waste and recycling received by UCRRA Facilities 2019-2021, sourced from NYS DEC Annual Permitted Transfer Facility and Recyclables Handling & Recovery Reports.

MATERIALS	2019 TONS	2020 TONS	2021 TONS
Municipal Solid Waste (MSW)	59,644.01 (ULST) + 41,161.45 (NP) 100,805.46	59,326 (ULST) + 41,238 (NP) 100,564	60,232.28 (ULST) + 46,397.16 (NP) 106,629.44
Construction & Demolition Debris	27,292.98 (ULST) + 7,927.50 (NP) 35,220.48	29,142 (ULST) + 9,042 (NP) 38,184	31,167.96 (ULST) + 10,489.86 (NP) 41,657.82
Biosolids	3,632.82	3,520	3,262.21
Old corrugated cardboard (OCC)	2,080.82	2,538.68	2,476.29
Mixed News	1,330.37	1,189.47	2,138.91
Commingled containers	1,168.52	1,580.77	2,110.24
Glass	545.39	697.93	494.34
Source Separated Organics (SSO)	4,620.65	4,672.05	3,383.36
Yard Waste/Brush	435.48	755.93	879.19
Wood Chips	2,220.23	1,750.31	2,114.26

Electronics	303.71	254.04	179
Single Stream Recycling (SSR)	446.13	N/A	N/A

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

Figure 2. UCRRA Materials Recovery Facility Trends (2019-2021)

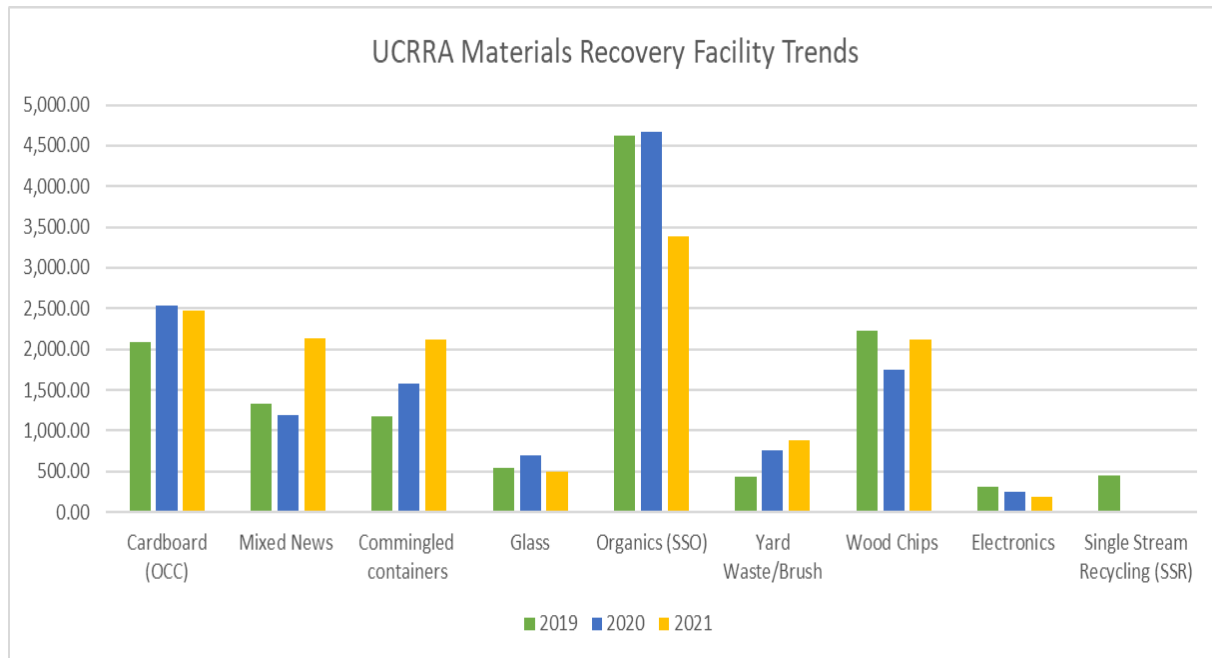
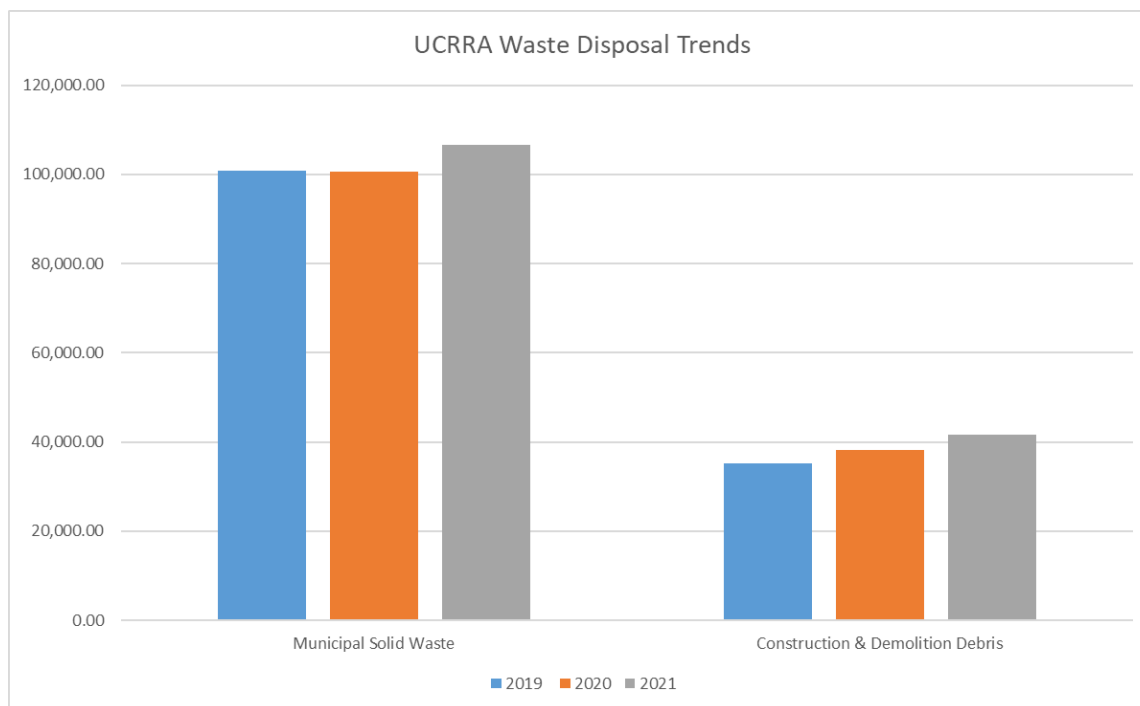


Figure 3. UCRRA Waste Disposal Trends (2019-2021)



Additional metrics about the UCRRA diversion and recycling practices are provided in Section 1.3.3 in Figure 5: Waste Diversions from UCRRA Facilities 2019-2021.

1.2.1 Comparison to Waste Data Projections & Deviations

The LSWMP prepared by Cornerstone discusses Tonnage-Population Based Waste Projections (p.31-32) that were based on a **0.27% decrease** in population each year of the planning period, and EPA metrics of 2.9 lbs per person per day. At the time the plan was written, the authors acknowledged that the available waste data from UCRRA (2018) more accurately reflected 3.1 lbs/person per day. It should be noted that the available data includes both residential and commercial waste, which the Agency does not have the ability to differentiate. Section 9 of the plan also discusses future waste projections (p.151) using a NYSDEC model that assumes a **0.27% increase** in population each year. The presentation of both sets of scenarios is contradictory, ranging from 100,000 - 117,000 tons per year in the NYSDEC software modeling and 91,000 - 94,000 tons per year in the alternate scenario modeled by Cornerstone. **The actual MSW fraction of MSW received by UCRRA is within these ranges as predicted in the LSWMP, though it is important to acknowledge the wide variance in the two scenarios.**

A discussion of deviations from original waste projections would not be complete without acknowledging the COVID-19 pandemic and the complexity of ways it influenced the municipal waste stream, construction and demolition debris, and organics recycling. The COVID-19 pandemic prompted families and individuals living in urban centers to relocate to suburban and

rural areas. This local real estate boom was well documented in news outlets. New home buyers initiate home renovation projects that result in increased construction and demolition debris, an increase in legacy household hazardous wastes inherited with the sale of older homes, large volumes of corrugated cardboard, increased waste from home clean-outs while moving, etc. While these are assumptions, they can generally be observed in the actual waste data in Figure 1. The mandatory statewide shutdowns and work-from-home orders also changed the percentage of commercial versus residential waste in the waste stream. The Agency assumes an increase in single use disposable serveware from take-out meals and other behavior changes from concerns about public health and sanitation (masks/gloves were littered or contaminated recycling). With many food service businesses and schools closed, the Agency observed a decrease in organics for several months during the COVID-19 pandemic. The Agency also experienced a high demand for finished compost in 2020-2021 which may be related to the local real estate boom or the mandatory stay-at-home orders initiating new home improvement projects.

“Overall [in 2021] waste volume at UCRRA increased by 6.5% 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 public health crisis due to COVID-19 continued to impact the makeup of waste....This was a continuing trend from 2020. It can be expected that volume will return to pre-pandemic levels in 2022.” (UCRRA 2021 Annual Financial Report p. 27)

“Recycling/Diversion volumes as a whole decreased from the prior year. The main commodities (news, OCC, and commingle) were consistent with 2020. The biggest change in volume was a decrease 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 pulled volume at the beginning of the year, leading to a 27% decrease in food waste from 2020 to 2021.” (UCRRA 2021 Annual Financial Report p. 28)

Distinctly, there are limits to all of these models. While models can be helpful, the Agency recognizes 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 4. Comparison of Budgeted Tons and Actual Tons Received by UCRRA (2020-2021) sourced from UCRRA Annual Treasurer's Reports.

	2020 Budgeted Tons	2020 Actual Tons	2021 Budgeted Tons	2021 Actual Tons
(MSW)	97,125	99,524	99,750	105,684
(C&D)	32,375	39,224	33,250	42,604
(SLUDGE)	3,600	3,520	3,600	3,263

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

Lastly, while the original LSWMP presented an alternative scenario based on increased waste diversion, it did not present any exercises for scenarios where the implementation of the New York State Food Scrap Reduction and Recycling Law or the Ulster County Food Waste Prevention and Recovery Act were successfully implemented. The NY law became effective January 1st 2022 and regulates large waste generators creating 2 tons per week (tpw) or more food waste. Simultaneously, the Ulster County Food Waste Prevention and Recovery Act is expected to implement lower tiers, impacting large food waste generators creating 1.0 tpw or more food waste; 0.75 tpw January 1st 2023; 0.50 tpw January 1st 2024. The Agency recognizes the potential impacts of waste diversion if these laws are successfully implemented and seeks to enhance this biennial update by presenting these scenarios.

Figure 5. Baseline Ulster County NY Waste Projections (2019-2029) using 3.1 lbs/per/day and 0.27% decrease per year in population.

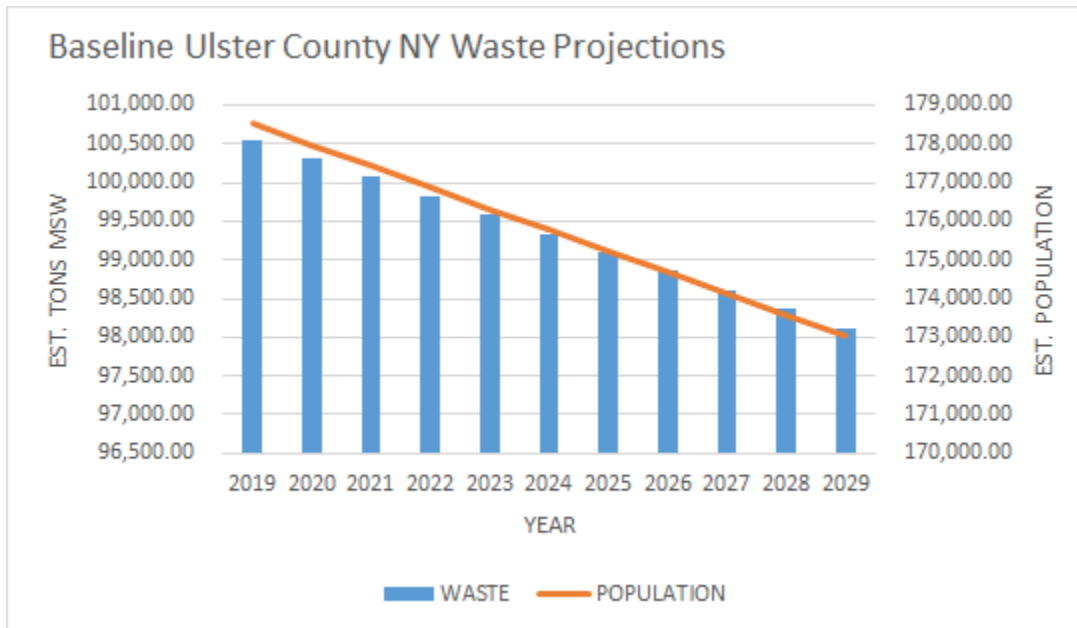
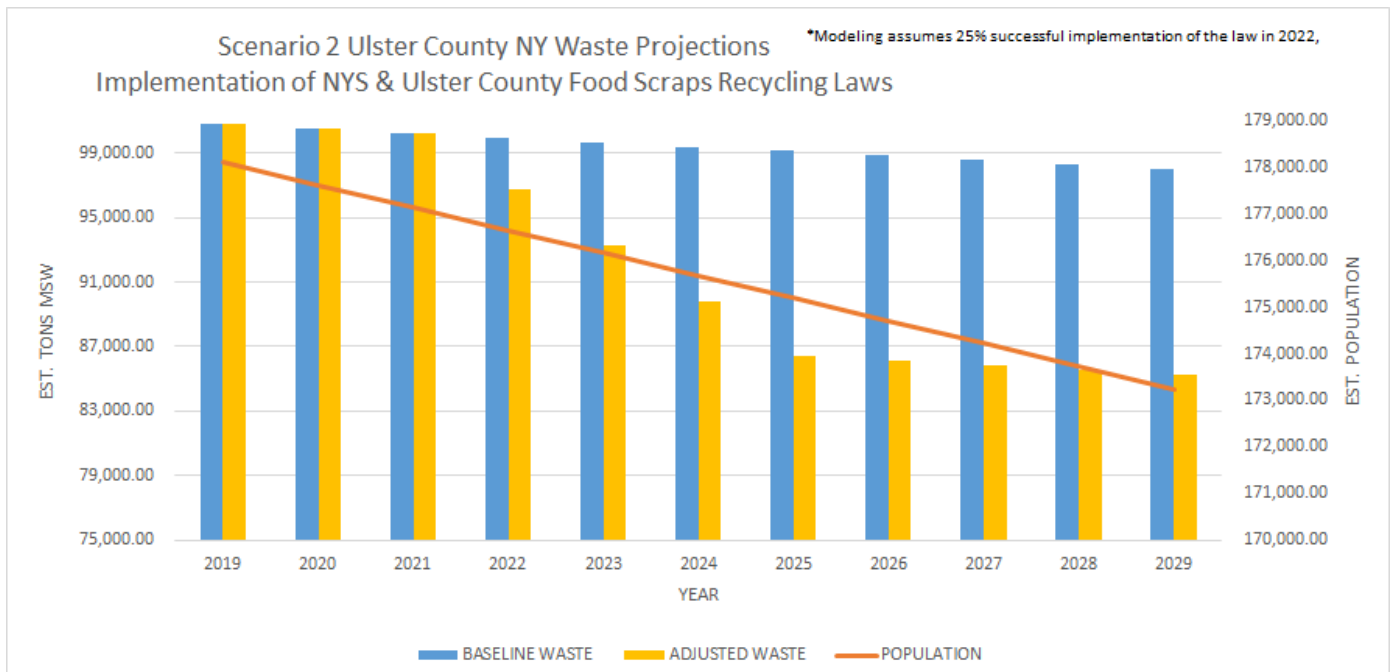


Figure 6. Ulster County NY waste projections shown with implementation of local and state laws, assuming 25% successful implementation of target reduction goals in 2022, 50% in 2023, 75% in 2024, and reaching 100% of target reduction goals in 2025.



1.3 Significant Changes to Waste Management Practices

1.3.1 COVID-19

The COVID-19 pandemic resulted in temporary changes to some of UCRRA's services, and other long term service changes that presented opportunities further discussed in this Section.

Office Closings. UCRRA was responsive to the changing health crisis by preserving essential components of the solid waste services while balancing safety and health of Agency employees. The Administrative Office was closed to the public from mid-March through most of 2020 while Administrative staff telecommuted, or worked in staggered shifts as necessary to comply with state occupancy mandates. The Administrative Office continued to be responsive by phone and electronic means, and continued to meet the needs of the community.

Electronics Recycling. E-waste collection historically was offered Monday through Friday during business hours when the Main Office was open. With the Administrative Office closed, the electronics recycling program was temporarily paused for several months. Residents were notified through newsletters, social media, and on the UCRRA website, and residents were instructed to hold electronics until the program resumed, or utilize other recycling options in the County (MRDCs, Electronics Retailers, etc.). By June 2020, the program resumed but was changed to Saturdays only. This further encouraged social distancing to limit public interaction with staff, and maximized the staffing plan to assist unloading vehicles (which had logistically been inefficient in the past). Another benefit was increased controls for monitoring contamination or unauthorized wastes coming in with electronics. The change of days/hours was beneficial in other ways, as the Agency previously received feedback that the program should be available on weekends. Presently, the electronics recycling program remains available for free, Saturdays only, as is seasonal April through November due to the nature of the outdoor collection area.

HHW Events. As a result of COVID-19 and concerns about social distancing, public safety, and mass gatherings, the UCRRA Executive Director and Board of Directors canceled the Household Hazardous Waste Collection events scheduled for April 25th, July 25, and October 10th 2020. Residents were instructed through the Agency website, newsletters, social media, and by phone on how to safely store chemical products in the home until the program resumes. When applicable, residents were offered alternate safe disposal options. In 2021, it was determined that the scope and size of this program should be reevaluated. The list that follows is a summary of changes submitted to NYSDEC for the Agency's 2021 HHW program, in an effort to maintain great consideration to the COVID-19 pandemic, public health and safety guidelines.

- HHW events will run from 8am – 12pm instead of 8am-2pm.

- To help compensate for this reduced schedule, the Agency will add a fourth event. In previous years only three options per year were offered.
- In an effort to improve safety, traffic flow, contact tracing, etc. events at the Kingston facility will be held on Sunday. In previous years, these events were held on Saturday when the rest of the facility was simultaneously operational.
- The Agency will emphasize that masks or face coverings will be required by all participants, staff, personnel etc.
- Agency staff will limit person-to-person contact. Participants must remain in their vehicle and put all wastes in the trunk or rear of their vehicle. In order to limit points of contact, the Declaration of Residency Status and Declaration of Non-Commercial Waste will be confirmed at the time the appointment is made (electronically) as well as in-person at the time of check-in (verbally). In the past each participant signed next to their name and address on a clipboard that was passed between each participant. Agency staff will now initial for check-ins.
- In order to limit person-to-person points of contact, there will be no collection of any pharmaceutical waste. In previous years the Ulster County Law Enforcement Center had assisted with pharmaceutical collection. The Agency will emphasize the various other options/locations for safe disposal of medications.
- All events will take place at UCRRA facilities. In previous years, New Paltz events were held in the NYSDEC Region 3 parking lot. In 2021 the Agency will utilize its New Paltz Transfer Station with a new site map and security plan.

Cash Payments. The Agency made other efforts to limit person-to-person contact during the pandemic. The Executive Director determined to end all payment by cash transactions and only accept payment by credit card, check, or credit account. This practice is still in place and has greater benefits in the quality controls of the daily operations.

Outreach & Education. The Agency Recycling Outreach Team adapted to the new challenges posed by social distancing and the mandatory closures. All planned classes, site visits, tours, and community events were canceled during March-June 2020. The Recycling Outreach Team responded by utilizing distance-learning like teleconferencing and social media to continue educational programs. A new YouTube Channel was created to upload video content and webinar recordings. The team utilized e-newsletters and updates to the UCRRA website to inform the public about service changes. And the team worked on improvements to print media during this time. Notably, the team found benefits to using distance-learning, with access to recorded webinars and potential to reach a larger audience.

1.3.2 Compost Facility Improvements

In 2020-2021, the Agency completed facility upgrades and acquired essential processing equipment to continue the work required to carry out daily operations of the Organics Recovery Facility. The improvements utilized the existing footprint of the Agency composting site, enhancing the Organics Recovery Facility. The work was conducted in anticipation of the NYS Food Scrap Donation and Recycling Act and the Ulster County Food Waste Prevention and Recovery Act, enabling UCRRA to increase resource recovery of organics, continue to expand local capacity for organics recycling, and improve the distribution of finished compost. The upgrades have added benefits in the Agency's overall odor mitigation plan due to the inherent benefits of less time agitating/moving/mixing the material and reducing ponding/pooling and storm water management. These upgrades include the purchase of a loader, a radial stacker, a trommel screen, installation of utility poles, an expanded concrete pad and blacktopping throughout the compost facility, a new compost bagging facility, and a new Sustainable Living Center, which are further discussed in this section.

- 2020 VOLVO L-11-OH Wheel Loader – used to mix and process incoming loads of food scraps with woodchips in a 3:1 ratio. Then the material mixture is brought to active composting zones and laid onto the EASP system of pipes. The loader mixes batches of food scraps with woodchips, and carries material onto/off of active aeration zones. The loader features a 9 cy bucket whereas the old machine had a 2 cy bucket. Less material handling has many benefits, including aiding in odor management, environmental benefits reducing fuel use, improving site traffic flow while increasing safety.
- 2018 TELESTACK MH 5680 Revolution Radial Stacker –used to eject compost using a hydraulic arm and conveyor system. The machine relocates large volumes of compost and can lay biofilter caps on top of active composting zones. A biofilter is a 6-8 inch layer of finished compost or wood chips that encapsulates the top layer of an active compost pile. The Agency was previously not able to lay biofilters without this machine. Biofilters have many advantages; a biofilter aids protecting from surface drying, insulates from heat loss, discourages flies/nuisances, eliminates surface exposure of food residuals, aids in filtering ammonia and other volatile organic compounds which are odorous. The machine features a 10 cy hopper whereas previous methods of moving compost were limited to a 2 cy at a time.
- 2020 TEREX PHOENIX 2100 Trommel Screen – a high performance hydraulic trommel screen improves operating efficiency and quality of the compost, while also indirectly aiding in odor management. The equipment has a high capacity throughput for

screened, salable product. The inlet hopper can hold 10 cy at a time and can screen 150 tons per hour, whereas the machine it replaced could only screen 10 tons per hour. Reducing handling not only eliminates labor, which reduces operating costs, but less material handling also reduces agitating the compost, reducing any odors emanating from these processes. The machine will be used to screen finished, salable compost to remove coarse or partially decomposed oversized materials, resulting in a finer textured compost that better meets the needs and specifications for agriculture, gardening, landscaping, etc. (3/8 inch with 100% passing through 9.5 mm sieve).

- Utility poles – improved site lighting was necessary to maximize safety and perform essential operations during early morning hours, which was part of the Agency’s overall odor mitigation plan. Operations that agitate the compost (creating a new zone, removing a zone from active composting to curing, screening, etc.) can now be conducted during early morning hours before commuters travel across bridge where odors have been previously reported.
- Compost pad – an expanded concrete pad was a necessary infrastructure improvement and forward-looking approach to the overall management of the Organics Recovery Facility. Blacktop pavement was applied to a 125 x 55 foot area between the MRF Building E and the Active Aeration Zones. This area was previously a dirt surface prone to extremely muddy conditions after weather events. An expanded concrete pad was added over the entire site footprint - a 350 x 430 foot area (exclusive of the original active aeration zones which are unchanged, measuring 120 x 90 foot area). This area was also previously a dirt surface prone to muddy conditions. The concrete pad provides an impermeable surface for all composting activities (mixing, active composting, screening, stockpiling, etc.) and includes an improved system for stormwater management onsite. As part of the odor mitigation plan, compost now undergoes a 60 day curing phase (previously 30 days) before the product is screened and sold, which means more finished material is stored on site for a longer detention time. The expanded pad was necessary for these windrows staged onsite prior to screening. The pad will also improve the quality of finished compost by eliminating rubble, rocks, undesirables resulting from loading scoops off the bare ground surface.
- Concrete forms/molds – to create structures that form barriers, concrete walls, etc. these “jersey blocks” allow the Agency to expand bays and create more distinctive functional areas at the site. The receiving area for processing/mixing was originally a 26 x 42 foot area blocked off by concrete forms. The forms were relocated to expand the mixing area– now a 40 ft x 85 ft area. The screened compost stockpile area was originally a 60 x 42 ft area blocked off by concrete forms. Some forms were moved, additional forms added – now 170 x 80 ft area. The area for over screenings was

relocated from dirt/mud areas to concrete pad. Wood chips stockpile remains unchanged. The deer composting bay was 12 ft x 25 ft adjacent to the original mixing bay – now a 65 x 20 area located next to the expanded mixing bay. A small Salt Shed was relocated and will be used for compost equipment storage (blowers, times, pipe fittings, etc.) as needed.

- Compost bagging facility – The UCRRA Compost Bagging Facility & Sustainable Living Center will primarily serve as a storage and processing facility for the Agency's finished compost bagging operation. The prefabricated steel building is approximately 36x36 feet (14-gauge) that features three 12x12 garage overhead doors, 2 walk-in standard 36"x80" doors, and 2 standard 30"x36" windows. This facility was essential to carry out the work of packaging the compost for sale. Bagging compost must be conducted indoors (or under cover) to protect the compost, the machine, bags/supplies, and the workers from weather and the natural elements. This project allows the Agency to promote compost to new distribution channels that enable the successful continuation and expansion of this recycling service. UCRRA anticipates an increase in compost distribution in the coming years as local and state composting laws take effect.
- Sustainable Living Center – Additionally, the Compost bagging facility will share space for a dual purpose – half of the facility will serve as UCRRA's new Sustainable Living Center: an educational classroom and meeting room for use by the Agency's educators during facility tours, for UCRRA classes and presentations, or other planning meetings to improve recycling/composting programs. The Agency's LSWMP targeted goals of increasing waste reduction/recycling/composting education programming, and discussed the creation of a classroom. This project meets these materials management needs for constructing a facility for meeting groups, educational programs and tours. The Center will have a glass observation partition separating the two sides of the facility so that visiting groups may observe the compost bagging operation at a safe distance and learn about the many horticultural benefits and uses of finished compost.

These critical facility improvements enable the successful continuation of this recycling service, and support the Agency's efforts to meet the local and statewide demand for increased organics recycling and compost distribution. The LSWMP introduces nine overarching objectives for the 10 year plan. This project is consistent with the goals and strategies set forth in the original LSWMP, specifically these facility improvements satisfy 7 of the 9 objectives (#1,2,3,4,5,7,9) discussed on p.10-11 of the plan.

1.3.3 Waste Diversion Practices

Section 4 of the 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. The UCRRA's mission is to manage waste with a focus on resource conservation, and in pursuit of that mission both UCRRA transfer stations have protocols for recovering materials that can be used for their greatest recycling potential. For the purpose of this biennial update, the following section will discuss the solid waste diversion practices.

Figure 7. Waste diversions from UCRRA Facilities 2019-2021, sourced from NYSDEC Annual Permitted Transfer Facility Reports

MATERIALS	2019 TONS	2020 TONS	2021 TONS
MILLINGS/RUBBLE	341.42	881	918.82
SCRAP METAL	458.12	716	424.28
ALUMINUM, COPPER, & WIRE	8.67	4	2.41
ELECTRONIC WASTE	85.99	115	74.1
OLD CORRUGATED CARDBOARD (OCC)	77.91	89	72.53
CLEAN WOOD	31.74	105	68.3
FOOD WASTE	8.41	4	-
TIRES	37.65	39	39.9
YARD WASTES	436	388	-
TEXTILES		8	3.11
TOTALS	1,485.91	2,341	1,603.45
DIVERSION	1.09% (136,025)	1.68% (138,748)	1.08% (148,287.26)

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

Removing materials from the waste stream requires a skilled workforce that is trained in all applicable health and safety considerations to the greatest extent. The health and safety of the operations team and a safe work environment always take precedence 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 bulk food waste for composting. **Other items not tabulated above include freon, fluorescent lighting and ballasts, and lead acid batteries (which are counted on a per unit basis and not measured by weight).**

Beginning in 2020, the operations team began diverting textiles for recycling. Clothing, shoes, fabrics, leather, linens, and other textiles make up an estimated 9.7% of the municipal solid waste generated and 11.5% of the waste buried in landfills, nationwide (EPA, 2017). The operations team segregates textiles and directs customers to textile collection boxes added to the transfer station. **Note: the number shown in Figure 7 is for textiles diverted from the transfer station operation and do not include the source-separated textile waste from clothing/shoe drop off bins available at both UCRRA facilities.**

The Agency's mission and vision for resource recovery is the guiding principle for diversion programs. The Agency is currently diverting between 1.0-1.7% of the incoming waste stream through its diversion program, and seeks to continue this practice throughout the planning period. With increased workforce and staff training, there may be potential to target as much as 2.0% of the waste stream for these tipping floor diversions, though safety always takes precedence over diversion potential. In the next two years of the plan, the Agency staff may seek to better understand ways of increasing tipping floor diversions and will present any findings to the Agency's Board of Directors for operational review.

1.3.4 Biosolids Composting

Biosolids are the semi-solids or solid materials resulting from treatment of wastewaters from sewage treatment plants (p.26). Biosolids delivered to the Agency have historically been exported for final disposal at the Chemung County Landfill in Elmira, NY. The LSWMP discusses Organics Diversion strategies in the Implementation Plan and Schedule. In year 2022 it states: "*continue to explore options to increase diversion of organics from landfilling*" (p. 128). In year 2027 it states: "*evaluate biosolids disposal*" (p.143) and in 2028: "*determine if biosolids disposal system needs to be altered based on previous year's evaluation and data collection*" (p.146). Under the new executive leadership of the Agency, these strategies were prioritized and fully executed far ahead of the original timeline.

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 biosolids are transported 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 took effect January 1st 2021 and will terminate on December 31st 2025, unless extended.

On their [website](#), the Rockland County Solid Waste Management Authority states:

“The bio-solids are mixed with clean wood waste and then composted. The finished product is an excellent soil amendment for use on golf courses, flower gardens, and landscaping projects. The Facility is a state-of-the-art in-vessel agitated bin composting plant that processes clean brush, wood waste, bio-solids (sludge), and other organic residues in the production of exceptional quality compost. The Facility is operated by WeCare Organics under contract to the Authority. It is located adjacent to the Authority's Materials Recovery Facility and Transfer Station in Hillburn, NY.”

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 LSWMP introduces nine overarching objectives for the 10 year plan. The biosolids composting agreement is consistent with the goals and strategies established in the LSWMP, specifically the program satisfies 6 of the 9 objectives (#1,2,3,5,7,9) discussed on p.10-11 of the plan.

1.3.5 Paint Stewardship

The Agency anticipates other changes to the Household Hazardous Waste collection program in the next few years. PaintCare Inc., a non-profit 501(c)(3) organization, represents paint manufacturers (paint producers) to plan and operate paint stewardship programs in U.S. states that pass paint stewardship laws. PaintCare is a program of the American Coatings Association (ACA) a membership-based trade association of the paint manufacturing industry. New York State Paint Stewardship Law was enacted December 16, 2019, and the PaintCare NY Program is expected to launch May 1, 2022. It will soon be even more convenient to recycle paint in New York. Once the New York paint stewardship program officially launches, PaintCare will offer drop-off sites throughout the state where the public can take unwanted paint for recycling. These sites will be available to households, businesses, government agencies, and others with leftover paint in New York. The Agency's HHW program is an excellent opportunity to recover even more paints and other architectural coatings covered under the program, including latex paint which was previously not accepted at HHW events.

1.4 Outreach Education and Community Engagement Activities

The UCRRA Recycling Outreach Team designs, plans, implements, and evaluates the Ulster County Recycles outreach education and community engagement programming, and acts as liaisons for the UCRRA recycling and composting services. A broad description of the Agency's Outreach and Education Programs are discussed in Section 4.10 of the LSWMP (p.52-54), and the Agency would like to emphasize the importance of the role of public education and outreach in the overall execution of this 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 for copies of booklets, fliers, guides.***

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 2020 and 2021. The Recycling Outreach Team Work Plan developed under this project is summarized below.

Figure 8. UCRRA Recycling Outreach Team Work Plan, MWRR project

1. Address recycling complaints about businesses, apartments, and institutions, etc.
2. Conduct site visits to implement or improve existing recycling, composting, or waste reduction programs
3. Update/distribute recycling/composting/waste reduction posters, recycling bin stickers, signs, flyers, brochures
4. Facilitate presentations and workshops for businesses, schools, community groups, youth groups, and residents, to promote recycling, waste reduction, reuse, up-cycling, and composting,
5. Staff informational tables at community events and fairs,
6. Conduct facility tours of the Material Recovery Facility and the Organics Recovery Facility,
7. Promote recycling/waste reduction/composting through UCRRA website, social media, e-newsletters, newspaper and radio advertising,
8. Update/distribute program media such as guides, brochures, contacts lists, flyers, etc.
9. Respond to requests for information over the phone, online, in person about recycling guidelines

Additionally, the Recycling Coordinator has the following responsibilities:

1. Act as liaison to waste hauling companies, municipal recycling centers, local government, and local businesses to address recycling complaints and assist with enforcing local recycling laws.
2. Plan, implement, direct, and report on the Agency's Household Hazardous Waste Program
3. Compile data for the required planning unit reports about recycling and waste characterization in the planning unit as well as electronics, organics, household hazardous wastes
4. Assist in marketing the availability and use of the Agency's finished compost,
5. Maintain membership with the US Composting Council and USCC Seal of Testing Assurance Program.
6. Participate in regional round table meetings, conferences, trade shows, committees, and webinars to gain access to the best knowledge available as to improve and expand programmatic education and outreach strategies.

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. 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 9. UCRRA Food Scraps Reduction and Home Composting Education Project Work Plan

OBJECTIVE 1 REDUCE ORGANIC WASTE GENERATION	a. Develop and distribute educational resources about reducing wasted food b. Provide tools that foster waste reduction	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. EAT FIRST boxes are small containers or signs that are stored in refrigerators to prompt people to eat the most perishable food items first.
OBJECTIVE 2 REDUCE ORGANIC	a. Develop and distribute educational resources about home composting	Educational content includes topics such as: home composting methods, feedstocks, best

WASTE DISPOSAL	<p>b. Install home composting demonstration site at UCRRA facility</p> <p>c. Provide tools that foster home composting</p>	<p>management practices, tips for avoiding pests, how to use finished compost, etc.</p> <p>Compost demonstration site will be used for guided instruction and public education during workshops, tours, etc. Compost bins and related teaching equipment include instructional 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>
----------------	--	---

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

Plastic Free July

The Agency was awarded a Community Grants Contract administered by the New York State Pollution Prevention Institute (P2I) for a project funded 2020-2021. 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 UCRRA Zero Waste Seminar Project aimed to raise awareness of the impact of waste reduction and reuse as pollution prevention strategies, with an emphasis on promoting source reduction of plastic waste. The project involved a series of webinars with outreach focus areas like ocean plastic pollution, the effects of litter on watersheds, marine life, and humans, the harms of microplastics and microfibers, rethinking waste through zero waste practices, product life cycle impacts of reuse and repair, and other conservation techniques that prevent pollution from waste. UCRRA launched the project during July 2021 as an opportunity to utilize messaging around Plastic Free July, an initiative of the non-profit organization the Plastic Free Foundation.

Figure 10. UCRRA Zero Waste Seminar Project Scope of Work

<p>Task 1: Plan and Administer Education Events <i>UCRRA will plan and conduct six in-person and/or virtual educational events. Participants can sign up for one or more events offered. Each event will educate participants on the pollution prevention (P2) topics: Ocean Plastic Pollution, Microplastics, Toxicity, Non-Renewable Resources, Emissions Avoidance, Waste Reduction & Reuse, and/or Social Environmental Justice. UCRRA will survey participants</i></p>	<p>Deliverable 1 : One (1) finalized schedule of all events. Deliverable 1.2: Six (6) community engagement events. Deliverable 1.3: Pre- and post-event surveys developed. Deliverable 1.4: Sixty (60) Pre- and post-event surveys</p>
---	---

<p><i>before and after events to gauge the program’s impact on participants’ awareness and sense to act on the P2 topics.</i></p>	<p>collected from project participants. Deliverable 1.5: Six (6) power point presentations developed.</p>
<p>Task 2: Develop New Outreach Media <i>UCRRA will develop a one-page print flyer that will be distributed at all events. The flyer will communicate the goals of the project, the partnership with NYSP21, and educational content that aligns with the outreach topics of the project. UCRRA will also add a new page to its website. All media and promotions associated with this project will always reference the UCRRA webpage to draw more users to access additional resources. The schedule of classes and sign up forms, educational flyers, presentations, and radio ad sound clips will be compiled into the webpage. To gauge program impact and reach, user metrics may be available through Google.</i></p>	<p>Deliverable 2.1: One (1) educational flyer; 1,000 flyers printed for distribution. Deliverable 2.2: One (1) new page added to the website.</p>
<p>Task 3: Develop and Launch Indirect Community Engagement Campaign <i>UCRRA will develop radio ads: two (2) 30-second ads and two (2) 15-second ads that will be aired on WDST for six (6) weeks. The radio ads will contain educational content and promote the events and webpage. UCRRA will execute a 3-month educational advertisement campaign using bus wrap ads on the Ulster County Area Transit System (UCAT). The bus ad will feature imagery and content that aligns with the outreach topics and will promote the events and webpage. UCRRA will develop print advertisements in a local newspaper. The ads will promote the events and webpage. Finally, UCRRA will develop a social media strategic plan to share educational content, promotions for events, etc. on Facebook, Instagram, and YouTube.</i></p>	<p>Deliverable 3.1: Four (4) radio advertising copies Deliverable 3.2: Five (5) print advertising proofs Deliverable 3.3: One (1) UCAT bus ads Deliverable 3.4: One (1) Social media plan Deliverable 3.5: Twenty (20) social media posts</p>
<p>Task 4: Develop Teaching Tool and Promotional Items for Project Participants <i>UCRRA will develop teaching tools to enhance the project’s impact on participants and encourage long term behavior changes toward project goals/outcomes. Teaching tools will include the UCRRA logo, project name, acknowledge NYSP21 and refer to the website for additional resources. Reusable, customized promotional items, such as reusable bags, reusable straws, magnets, etc. will be purchased to give away at events.</i></p>	<p>Deliverable 4.1: Promotional products including 500 reusable bags, 500 reusable straw kits, 500 magnets, and one (1) educational display (retractable screen) developed, ordered and distributed to project participants</p>
<p>Task 5: Reporting <i>Specific reporting procedures outlined in the Contract and</i></p>	<p>Deliverable 5.1: Two (2) quarterly progress reports</p>

<i>Scope of Work.</i>	Deliverable 5.2: One (1) final project report Deliverable 5.3: Two (2) Metrics reports
-----------------------	---

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

1.4.2 Recycling Outreach Team Seminars

The table below shows the free public workshops that were developed and hosted by the UCRRA Recycling Outreach Team (2020-2021).

Figure 11. Recycling Outreach Team Seminars (2020-2021)

Program Date	Program Name	Description
03/11/20	Informational Open House for School Administrators	All superintendents, principals, and educators were invited to UCRRA to learn about the free educational programs and resources offered by the Agency. The team also reviewed best practices for improving recycling in the school environment.
03/30/20	Spring Greening	This workshop instructed participants on the best way to manage unwanted items during Spring Cleaning including where to donate/recycle items and how to reduce use of hazardous cleaning products.
05/02/20	Intro to Home Composting	This webinar instructed participants on introductory concepts of home composting and how to get started, and reviewed the pros and cons of various compost bins, and how to select a method of composting to fit different lifestyles.
05/02/20	Advanced Home Composting Seminar	This webinar instructed participants on how to troubleshoot compost pile issues, how to avoid nuisances, and how to use finished compost.
05/07/20	UCRRA Partners in Composting Seminar	Local food establishments were invited to this webinar hosted by UCRRA to learn how their business could become a sustainability leader by composting with UCRRA. Educators also discussed the benefits of composting, reducing food waste, and recycling.
09/26/20	Using Compost in the Garden	This webinar instructed participants on introductory topics about using compost to improve soil health. Topics included a

		discussion of the various benefits of compost in changing the biological, chemical, and physical structure of soil, and other horticultural benefits, uses, and application rates.
09/30/20	Cold Weather Composting	Participants in this webinar learned about the best management practices for maintaining hot compost piles in harsh winter winds or wet snowy conditions, and how to jumpstart the compost pile again in the Spring. Participants also learned about curing compost before it's ready to use, and other practical maintenance tips.
10/27/20	Rethinking Our Waste	Participants in this webinar learned about the climate impacts of waste and how waste is managed in Ulster County. The Recycling Outreach Team highlighted the "7R's to reducing waste" and gave examples of practical tips, habits, and zero waste strategies relating to each of the R's (Refuse, Reduce, Reuse, Regift, Repair, Recover, Recycle).
11/16/20	Recycle Right	This webinar (celebrating America Recycles Day) instructed participants on the guiding principles of how to recycle correctly, and the importance of knowing your program's recycling rules. Participants learned about the local recycling infrastructure and the reasons why certain items may or may not be recyclable.
12/07/20	Annual Meeting for Municipal Recycling Drop Off Centers	All Town Supervisors and the operators of Municipal Recycling Drop off Centers were invited to UCRRA to learn about the recycling education program, tools and resources used by UCRRA to reduce contamination. The webinar also served as an open forum for each MRDC to network, share tips and strategies or general updates about their programs.
04/04/21	Spring Greening - Green Up Your Clean Up	This webinar instructed participants on the best way to manage unwanted items while doing Spring Cleaning including where to donate/recycle items and how to reduce use of hazardous cleaning products.
04/28/21	Intro to Home Composting	This webinar instructed participants on introductory concepts of home composting and how to get started, and reviewed the pros and cons of various compost bins, and how to select a method of composting to fit different lifestyles.
05/05/21	Using Compost in the Garden	This webinar instructed participants on introductory topics about using compost to improve soil health. Topics included a discussion of the various benefits of compost in changing the biological, chemical, and physical structure of soil, and other horticultural benefits, uses, and application rates.
07/08/21	Understanding the Waste	Part 1 of the Zero Waste Seminar Project. This workshop provided an overview of the lifecycle of plastic - where plastic

	Climate Connection	comes from, how it's made, how it's recycled, and how it contributes to environmental pollution. Participants also learned about how waste is managed in Ulster County, and related materials management laws. The Recycling Outreach Team highlighted the "7R's to reducing waste" and gave examples of practical tips, habits, and zero waste strategies relating to each of the R's (Refuse, Reduce, Reuse, Regift, Repair, Recover, Recycle).
07/13/21	Reduce, Reuse, Refill Rethink!	Part 2 of the Zero Waste Seminar Project. This workshop featured guest speaker Alex Bolotow, Woodstock Bring Your Own Store. Participants in this webinar learned about the history of plastics, and the current state of the plastic crisis (environmental & social impacts). Participants gained awareness of zero waste strategies like how to shop in bulk/refillable, how to make your own products, how to reduce packaging, and other pollution prevention strategies.
07/21	Business Leadership Summit	Part 4 of the Zero Waste Seminar Project. The webinar was promoted for local business owners and managers to learn how to reduce their plastic use and waste. The Recycling Outreach Team highlighted case studies of waste reduction strategies in the food service industry. Participants also learned about recycling program planning theory, how to build a successful green team, how to conduct a waste audit, and how to set recycling/zero waste goals in an organization.
07/26/21	Small Plastics, Big Impact: How Plastics Are Impacting our Local Waterways	Part 5 of the Zero Waste Seminar Project. This webinar featured guest speakers; Jen Benson, Upriver/Mohawk River Civics and Community Stewardship Coordinator, Andrea Varga, Associate Professor of Design/Sustainability at School of Fine & Performing Arts, SUNY New Paltz, and Roy Ludwig, Geology and Earth Science Education Honors Student, SUNY New Paltz. Participants learned about the sources and impacts of microplastic and microfibers in watersheds and related pollution prevention strategies.
07/28/21	Reuse It, Regift It, Repair It!	Part 6 of the Zero Waste Seminar Project. This webinar featured guest speakers; Elizabeth Knight, Co-Author of the book Repair Revolution, Kevin Treutler, Habitat for Humanity, Supervisor Neil Bettez, Town of New Paltz and Christine Hein, Executive Director, Peoples Place. Participants learned about how to extend the use life of items by donating them and repairing them, and how these practices reduce waste while having a positive social impact in our communities.

Through the staff's program tracking efforts, 331 adults were reached by these programs and the educators conducted 23.5 hours of direct community engagement in this category. Additionally, the Recycling Outreach Team was invited to 18 other distinctive public speaking events that were not Agency-sponsored programs.

1.4.3 Facility Tours

Community groups and organizations receive a high level of instruction during guided facility tours of the Materials Recovery Facility and Organics Recovery Facility. A total of 35 facility tours were recorded in 2020-2021. Notably, the covid-19 pandemic and subsequent office closings influenced the number of tours the Agency was able to safely conduct, among other restrictions. Through the staff's program tracking efforts, 176 adults and youth were reached by these programs and the educators conducted 49 hours of direct community engagement in this category during this time.

1.4.4 Consultation Services & Site Visits

The Recycling Outreach Team provides consultation services and site visits (by request) to assist facilities with improving or implementing sustainable waste practices at that location/organization. The list below summarizes the consultations and site visits conducted by the Team in 2020-2021.

Figure 12. UCRRA Recycling Outreach Team Consultations 2020-2021

Date	Facility	Outcomes
01/15/20	Saugerties Public Library	UCRRA provided guidance on the development of a Library Zero Waste Club - a monthly meeting space for environmental education advocates in the Town of Saugerties. UCRRA discussed topics, recommended speakers, resources, and levels of support to launch the club.
01/24/20	Town of Rochester Conservation Committee	UCRRA Partners in Composting Program consultation. UCRRA provided guidance on best practices for developing a food waste collection program at the Town of Rochester Transfer Station.
02/10/20	Hudson Valley Garlic Festival	UCRRA provided guidance and preliminary planning tips on best practices for developing a food waste composting program at this large festival, held annually in the Village of Saugerties.
02/27/20	Hutton Brickyards	UCRRA provided guidance for improving recycling systems

		and developing a food waste composting program at this event venue space in Kingston. The venue hosts large and small events and festivals throughout the year.
03/09/20	Woodstock Buddhist Monastery	UCRRA Partners in Composting Program consultation. UCRRA provided guidance on how to plan and coordinate a food waste collection program at the Woodstock Monastery and presented an overview of other local organics recycling options.
09/03/20	Town of Denning Municipal Recycling Drop Off Center	UCRRA provided education on dual stream recycling during a guided tour of the Agency's Materials Recovery Facility, and provided tips for educating residents about contamination.
09/17/20	Town of New Paltz Municipal Recycling Drop Off Center	UCRRA provided education and resources about dual stream recycling during a guided tour of the Town's MRDC, Reuse Center, and Zero Waste programs. Staff provided tips for educating residents about contamination.
10/01/20	Sunflower Supermarkets	UCRRA Partners in Composting Program consultation. UCRRA provided guidance on how to plan and coordinate a food waste collection program at the grocery store and presented other local organics recycling options.
10/06/20	Phoenicia Diner	UCRRA Partners in Composting Program consultation. UCRRA provided guidance on how to plan and coordinate a food waste collection program at the diner and presented other local organics recycling options.
03/26/21	White Feather Farm	UCRRA consulted with White Feather Farm to share education of best practices for onsite management farm composting.
06/02/21	Town of Woodstock Environmental Commission	UCRRA presented an overview of the current organics recycling infrastructure in Ulster County, and presented options and resources for how the Town of Woodstock could promote composting by residents and businesses.
06/18/21	Ulster County Climate Smart Committee - Ulster County Fair	UCRRA presented an overview of the current organics recycling infrastructure in Ulster County, and presented options and resources for how the Ulster County Fair could develop its own on site composting program.
07/19/21	Town of Saugerties Zoning Committee	UCRRA provided recommendations and examples of zoning criteria that would be applicable if the Town of Saugerties sought to allow commercial composting in its industrial development district, and shared contacts and resources.

11/10/21	The Orpheum Theater Saugerties	UCRRA provided recommendations about recycling/diversion practices for the Orpheum Theater renovation project.
----------	--------------------------------	--

1.4.5 Use of Social Media

The Recycling Outreach Team reaches public audiences with a variety of methods, including social media. Especially during office closings and coping with social distancing guidelines, the use of social media was extremely useful and provided additional program tracking metrics.

The [@UCRRA Youtube Channel](#) was created on April 9th 2020 and at the time of this writing features 36 videos, which collectively have had 792 views and 51.7 hours of watch time (as of 08/04/21).

[@UCRRA on Instagram](#) was created in the Spring of 2019 and has 136 posts and 796 followers (as of 08/04/21).

[@UCRRA on Facebook](#) was created on July 4th 2018 and currently has 947 page likes and 1,050 followers (as of 08/04/21).

The Agency publishes an e-newsletter using Mailchimp.com and during this planning period, the Recycling Outreach Team sent approximately 20 newsletters. The Mailchimp audience has over 3,800 subscribers (as of 0322/22).

The Agency began working with teleconferencing platform, Cisco Webex, in 2020 to enable virtual meetings and distance-learning opportunities for the Recycling Outreach Team. The virtual classroom has added benefits, reaching a wider audience than might be possible when meeting in person, and the opportunity to record classes for playback on Youtube.

1.4.6 New Agency Publications and Media

Refer to Appendix A - Recycling Program Media Sample for copies of booklets, fliers, guides where noted*.

- **New UCRRA Website**



The Agency overhauled its website and officially launched the new website on May 18th 2020. Staff worked collaboratively with its vendor, NextStepDigital, to streamline the organization of resources and content on the site and filter the presentation of information by Resident, Business, or Commercial Waste Hauler. Several new webpages were created including Resource Pages for [Landlords](#), [Schools](#), [Businesses](#), [events calendar](#), a [blog](#), [FAQ](#), information

about the [Recycling Outreach Team Services](#), and an [A-to-Z Recyclopedia](#) featuring over 100 hard-to-recycle items. The site features information about the Agency's programs and services as well as educational content about source reduction, recycling, composting, and more. A toggle feature was added in the top right hand corner of the site, to translate the entire website to Spanish.

- **Partners in Composting Program Guidebook***



The Partners in Composting Guide is an 8 page resource booklet created for the purpose of promoting participation in the UCRRA composting program, and providing guidance on logistics for establishing a source separation program for organics. The booklet includes detailed information about the Organics Recovery Facility, how to participate in the Partners in Composting Program (how to sign up, drop off process logistics, etc.), acceptable and unacceptable items, group composting tips, tips for reducing wasted food, frequently asked questions, and more. The guidebook is distributed as part of the formal onboarding process for new or prospective partners.

- **Partners in Composting Folders**

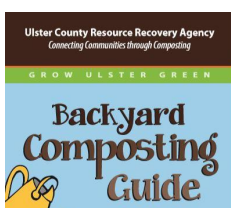
Custom illustrated folders for creating media kits to promote participation in the UCRRA composting program. The folders display a composting program logo, contact information for UCRRA, custom illustrations showing the steps to composting, the UCRRA mission statement, and funding acknowledgement statement.

- **Compostable Products Guidance Document**

This document was developed as a reference guide for institutions enrolled in the UCRRA Composting Program and explains the Agency's policy on certified compostable products, includes educational content about the challenges of processing compostable packaging, and includes detailed instructions for how to search the Biodegradable Products Institute for products by company or by product type.

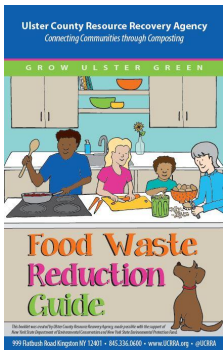
- **New Partner in Composting Surveys**

This document was developed as an administrative tool for enrolling/onboarding new members of the UCRRA Partners in Composting Program. The form requests facility contact information, details about the prospective food waste collection program and its participants, and plans for educating participants. The tool is used to gather important details for planning purposes and evaluate the needs of the member.



- **Home Composting Guide***

The Home Composting Guide is an 12 page educational resource booklet used to promote backyard composting. The booklet includes an introduction about what composting is, detailed information about balancing browns and greens, an overview of various compost bins and methods, troubleshooting reference guide, and other introductory topics.



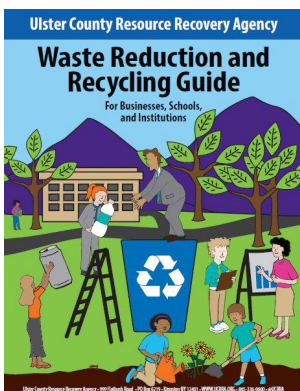
- **Home Guide to Reducing Food Waste***

The Food Waste Reduction Guide is an 12 page educational resource booklet used to promote more sustainable choices that lead to the source reduction of food waste. The booklet includes an introduction about food waste, detailed information about properly storing food, interpreting food labels, meal planning, donating food, and ideas to reinvent leftovers.

- **Recycle Right Poster Series***



The Recycle Right Posters are 11 x 17 posters created for the purpose of reducing contamination in recycling and food scraps received at the UCRRA. 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. The Posters are distributed to new partners enrolled in the UCRRA composting program, or by request, they can be sent by mail, laminated by request, and are available at the UCRRA Main Office.



- **Waste Reduction & Recycling Guide for Businesses, Schools, & Institutions***

This 40 page resource booklet was created for the purpose of promoting better recycling practices, source reduction, composting, and green purchasing at facilities, schools, and institutions. The booklet contains a quick reference on local laws, guidance on planning to improve or implement waste sustainability programs, guidance on how to conduct a waste audit, and many more topics.

- **UCRRA Display Retractable Banners**

The Recycling Outreach team developed teaching tools (retractable banners) that can be used in displays or when tabling at community events. When not in use for events the banners are prominently displayed at the



UCRRA Main Office. The banners feature educational content about waste sustainability. The team will encourage people to take a photo or ‘take a selfie’ with the banners to keep the UCRRA contact information or to avoid taking a piece of paper.

● **UCRRA 7 R’s to Rethink Waste***



The Recycling Outreach team developed a ‘multiflyer’ - a one page flyer that covers multiple topics. The multiflyer helps reduce paper waste by providing lots of information about various recycling programs on one convenient fact sheet. The multiflyer explains what to do with plastic bags, textiles, electronics, paints, medications, home use medical needles, and more. The flyer is available in English and Spanish.

● **Recycle - Compost - Trash Stickers***



The bin sticker series is available for businesses, schools, institutions, events, etc. for the purpose of labeling trash/recycling receptacles. The stickers are color coded to enhance communication about recycling (blue = recycle, green = compost, black = trash) and each sticker contains a visual aid for what should go in each bin. Each sticker is printed in both English and Spanish.



● **Plastic Free July Fact Sheet***



The Recycling Outreach Team developed a Fact Sheet about the effects of plastic pollution. The flier contains educational content about ocean plastic, microplastics, the effects of plastic on human health and climate and waste statistics. The back of the flier features tips for reducing plastic waste.

● **USCC Rack Cards***



The USCC Composting Council compost use rack cards are branded media used for compost distribution and promoting UCRRA Grow Ulster Green compost. UCRRA is a member of the US Composting Council and participates in the Seal of Testing Assurance program. The consumer compost use program rack cards contain educational content about compost use specifications and application rates for lawn class establishment and maintenance, flower/vegetable garden establishment and maintenance, tree/shrub establishment and maintenance. The rack cards are custom imprinted with

UCRRA contact information. Rack cards are distributed with every purchase of compost.

- **USCC STA Brochures**

The USCC Composting Council STA brochures are branded media used for the purpose of increasing compost distribution and promoting UCRRA Grow Ulster Green compost for sale, as UCRRA is a member of the US Composting Council and participates in the Seal of Testing Assurance program. The STA brochures contain educational content about the Seal of Testing Assurance program and are custom imprinted with UCRRA contact information.

- **Dual Stream Recycling Guide***



The DSR Guide applies to any Ulster County resident who uses their town transfer station, or any commercial business that delivers recyclables to UCRRA for processing. The recycling guide incorporates elements of behavioral science, and other best practices in recycling education, to create a memorable and visual message about what items are acceptable for recycling. The guide also features educational messaging about wishcycling, targeting the top 12 common contaminants, and messaging about why wishcycling is detrimental to the recycling industry.

1.4.7 Home Composting & Rain Barrel Sale Event

The UCRRA Recycling Outreach Team coordinated with BrandBuilders LLC to host a Spring Compost Bin & Rain Barrel Sale, celebrating International Compost Awareness Week in 2021. Residents signed up to pre-order composting bins and various home composting supplies through an online shop, and picked up pre-orders at the Agency's one day event held on Saturday, May 1st 2021 at the Kingston Facility. Educators provided hands-on instruction, as well as Home Composting kits that contained a complementary kitchen food scrap collection container along with other home composting literature. **A total of 112 bins/kits were sold through the pre-order, as well as 80 rain barrel kits.** The vendor BrandBuilders LLC provided a high level of management over the event, making it convenient for the Agency to facilitate this program. The Spring compost bin sale event was a great success and will be continued annually.

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](#), and Enforcement and Local Hauler Licensing Practices are discussed in the LSWMP in Section 4.4. (p.47) and Section 4.6 (p.48).

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, unless issued in the month of December, in which case it expires the 31st day of December of the next year. The Flow Control Licensing Application requests details about the hauler's qualifications to conduct waste collection. It communicates a list of authorized and unauthorized wastes at UCRRA facilities, requests information about the hauling vehicles used, collection practices and routes, and discloses information about recycling requirements per the Ulster County Mandatory Recycling Law, Local Law Number 4 of 2010.

ATTACHMENT A of the Hauler Permit Application is the COMMERCIAL HAULER WASTE REDUCTION AND RECYCLING PLAN which is a required section for all submissions. It asks for detailed information about the recycling collection methods and schedules, specific items accepted for recycling (to assure conformance to regulated recyclable material categories). This Recycling Plan Section also asks for an explanation of customer education practices (narrative and hardcopy examples of recycling guidelines) and for each applicant to expressly certify to agree to terms of the Mandatory Recycling Law.

The Agency issued 17 Hauler Permits each year and monitored changes in the local recycling infrastructure (companies selling routes, going out of business, merging, etc.). The Hauler Permit Application also asks for a description of any recent changes in recycling practices, a question that was added in 2020 after the economic fallout of *China's National Sword Program* and depressed recycling markets. The Agency also made improvements to the Hauler Recycling Plan Section to seek clarification on plastic recycling and the specific types of containers that are acceptable for recycling, noting the wide range of phrases and guidelines used for plastic recycling (#1-7 containers). The Agency continues the goals of better understanding and monitoring hauler recycling practices.

1.5.2 Annual Reporting

Each year UCRRA requests waste and recycling metrics from large waste generators within the planning unit and/or those that may accept waste from within the planning unit. These efforts assist the Agency in understanding and quantifying the flow and management of waste and recyclable materials in Ulster County, 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 surveyed represent various business sectors including but not limited to: 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.

There are notable limitations to the accuracy of these survey responses, including the total number of facilities surveyed which varies from year to year, the response rate for each facility category, methods used by respondents for measuring or estimating total weights and volumes, and other limitations that may lead to inaccuracy or incompleteness of this dataset. Therefore, the Agency acknowledges that this report should not be used or presented without this acknowledgment statement and with great consideration of these limitations, and that the information presented should not be used out of context in any subpart of this report.

Detailed survey results are provided in Sections 2.1.1 - 2.2.3 of this document. Refer to Appendix C - Ulster County Annual Waste & Recycling Report for additional information about these reporting practices.

Figure 13. 2020 Response Rates - Ulster County Annual Waste & Recycling Report

<i>Municipal Recycling Drop Off Centers</i>	100%
<i>Permitted Solid Waste & Recycling Haulers</i>	88%
<i>Educational Institutions</i>	86%
<i>Miscellaneous or Recycling-Related Businesses</i>	60%
<i>Hotel/Hospitality</i>	70%

<i>Food/Ag</i>	36%
<i>Retail Centers</i>	52%
<i>Hospitals/Healthcare Centers</i>	29%
<i>Municipal Buildings, Offices, Etc.</i>	35%

Figure 14. 2021 Response Rates Ulster County Annual Waste & Recycling Report

Municipal Recycling Drop Off Centers	100%
Educational Institutions	81%
Hospitals/Healthcare	80%
Haulers	77%
Miscellaneous Recycling-Related Businesses	61%
Hotel/Hospitality	57%
Retail	55%
Automotive	50%
Food-Related Businesses	48%
Industrial/Manufacturing	40%
Energy/Fuel	36%
Municipal Buildings	35%
Agricultural	22%
Sporting	21%
Beverage Industry	18%

Detailed survey results are provided in Sections 2.1.1-2.2.3 of this document. Refer to Appendix C - 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 may be made formally through the Agency's website 'contact us' form, by phone on the Recycling Hotline, in person at the Main Office or informally during events, classes, or on social media. Each complaint is given attention and may require an individualized approach to effectively evaluate or address the specific circumstances.

As a general practice, the Agency documents all instances of recycling complaints and first seeks to substantiate claims before taking corrective actions. It is common that an informant may suspect recycling is being commingled with trash during curbside collection, but upon investigation it may be determined that split body trucks were used. Or an informant may suspect that a business does not have a recycling program in place, but upon investigation it may be determined that the receptacles are staged in a discrete area of the facility. Alternatively, the Agency also engages in claims that can be substantiated, and historically has monitored several companies that have violated recycling requirements.

The Agency recognizes that approaching each scenario with education first will often lead to more favorable enforcement outcomes. First contact with a business owner or property manager may be a phone call interview. This may be followed by a direct mailing to inform about the requirements of the mandatory Recycling Law, provide options for recycling services, and communicate expectations about how to follow up with the Agency, such as submit 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 for consultations, resources, and to verify changes to the facility's waste program.

The Agency seeks to hire a Recycling Compliance Officer who may help identify deficiencies in the local recycling law. Notably, a lack of infrastructure to carry out penalties of this law has limited the scope of the Agency's enforcement actions. Section 19 of the Ulster County Mandatory Source Separation and Recycling Law outlines the process for enforcement of violations through the subpoena power of an independent administrative hearing officer. Section 20 of the Law further defines the role of the officer appointed by the County Legislature to serve in enforcement and issue orders assessing civil penalties for violations of this local law. There are clear gaps in the effectiveness of enforcement practices without a designation of an administrative hearing officer to bring compliance matters to. Pursuing other

revisions to the local recycling law may be beneficial to the efficacy of the County's recycling program and enforcement strategies, including additional requirements for hauler reporting.

1.6 Plan Implementation Challenges

1.6.1 Delays in LSWMP Approval Process

The NYSDEC received a final draft of the LSWMP on February 18, 2020. The LSWMP was 'deemed approvable' by the New York State Department of Environmental Conservation on April 27, 2020. The UCRRA Board of Directors voted to approve the plan at the June 1st 2020 Board Meeting. Despite extensive efforts by UCRRA to involve the Ulster County Legislature in the early planning process, and actively integrating concepts, goals, and recommendations, the Ulster County Energy & Environment Committee continued to delay the approval process for an additional ten months.

Concerns about the lead-Agency role in the SEQRA process were partly responsible for this long delay. Additionally, a few legislative committee members expressed that the plan lacked zero waste initiatives for the County, despite the extensive framework of outreach/educational programs offered by UCRRA. Furthermore, the existing Board of Directors and some legislative committee members shared fundamental differences about the roles and responsibilities of the Agency vs. the County in regards to expanding zero waste opportunities, enterprises, businesses, etc. Ultimately, the Agency took steps to demonstrate that waste reduction is a high program/service priority, assuring stakeholders of an ongoing dialogue about zero waste by creating its own Zero Waste Committee of Board Members on July 28th 2020, and shortly thereafter approved Resolution #2515 Approving a Zero Waste Vision for UCRRA.

The Ulster County Legislature formally approved the plan on February 16, 2021. **UCRRA received the official approval letter from NYSDEC on March 24th 2021, 15 months into the first 24 months of the implementation framework. The long delay in approval of the plan contributed to uncertainty about executing various projects and studies discussed in the original LSWMP.**

1.6.2 Covid-19 Pandemic

In the Spring of 2020, a novel coronavirus disease known as COVID-19 (SARS-CoV-2) spread across the globe and New York State became an epicenter of the global pandemic. The public health crisis resulted in a mandatory state-wide stay-at-home order and mandatory closures of various public and private sector businesses. Solid waste management is critical public health infrastructure, and the Agency was both reactive and proactive in maintaining its essential public services, as discussed in Section 1.3.1 of this document. The Agency's primary duty

during this public health crisis was to preserve the successful continuation of essential solid waste management operations. **The global coronavirus pandemic undoubtedly affected the implementation of this plan and the scope of work that could be completed given the extensive restrictions.**

1.6.3 New Executive Leadership

Four weeks after the Agency's Board of Directors voted to approve the LSWMP, the Board of Directors accepted the resignation of Timothy Rose as Executive Director on June 29, 2020. The resignation of Tim Rose was an abrupt and unexpected change in the organization. The role of an Executive Director is a distinctly influential component of the execution of policies and programs outlined in the LSWMP. The conceptualization of the LSWMP had been developed by Cornerstone under the direction of the former Executive Director, who in many ways did not engage the experiential knowledge and input of the Agency's professional staff, including financial matters for consideration by the Agency's Controller. **This lack of internal collaboration resulted in critical components of the plan lacking adequate short term and long term fiscal planning, as well as a realistic timeline for the execution of many initiatives.**

Beginning in July 2020 Agency personnel Timothy DeGraff was elected as Acting Executive Director in addition to his role as Controller, to aid in maintaining the essential daily business of the organization during this transitional time. Mr. DeGraff had been Controller of the Agency since January 2007, and prior to his role as Agency Controller, he spent 5 years as a Junior/Senior accountant with a public accounting firm, after receiving his B.S. Degree in Accounting from SUNY New Paltz. Mr. DeGraff is certified to practice public accounting in New York State and brings 14 years of perspective in public sector solid waste management infrastructure, as well as an extensive skill set in Administration and Management.

Mr. DeGraff continued to work as Acting Executive Director until the Agency's Board of Directors 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 plan could not be effectively pursued until the restructuring of the Agency was formalized.**

As the Executive Director, Mr. DeGraff made various recommendations about the UCRRA organizational structure, including utilizing a new Operations Manager, a new Office Manager, and the creation of a formal Recycling Department (consisting of an Educator and a Compliance Officer). The Recycling Department would be overseen by a Director of Sustainability. The Recycling Coordinator job description was revised to Director of Sustainability to expand the scope of waste-sustainability initiatives, assist with alternative waste technology research, document progress and update the LSWMP, set goals for

greenhouse gas emissions reductions, among other duties. In many ways, the new role of Sustainability Director will be essential for the successful implementation of the plan and this new organizational structure was approved by the Board of Directors in Spring 2021.

With these new leadership roles in transition, the Agency team needed time to review the fundamentals of the LSWMP and decide if the approach to the goals presented were truly representative of effective policy and facility infrastructure changes. To some extent, this review is ongoing.

1.6.4 Delays in Facility Operating Permit Authorization

Activities at UCRRRA facilities are subject to compliance with all applicable solid waste regulations. During this planning period, both operating permits for the Ulster Transfer Station and the New Paltz Transfer Station were under review for renewal by the NYS Department of Environmental Conservation.

The Agency initially submitted materials for its permit modification on April 29th 2019. The new operating permit was ultimately approved and became effective April 20th 2021, **two years later**. It should be noted that as of 04/11/22 the New Paltz Transfer Station permit renewal (which was a standard renewal) is still in process with NYSDEC.

Per section 21 Construction Requirements of the Agency's operating permit-

The facility cannot modify or expand any aspect of the approved construction or operation except in accordance with Department approval... This includes mining, re-grading or otherwise modifying the facility and/or property which does not comply with approved plans and specifications. All construction shall be in strict conformance with the provisions of the special conditions of this permit

Pursuant to our permit authorizations and applicable solid waste regulations, a valid facility permit is required before any significant facility modifications can begin. Therefore, the Agency could not complete many of the tasks in the Implementation Plan without a valid facility operating permit.

Per the request of NYS DEC, additional concrete work was added to the Organics Recovery Facility beyond the initial concrete work completed (discussed Section 1.3.2). The installation of the bagging facility and Sustainable Living Center (see Section 1.3.2) was also delayed by the permit renewal process. Compliance with these requests by NYS DEC was prioritized over initiating any entirely new projects. It should be noted that the LSWMP notes land clearing and modifications to the adjacent property now owned by UCRRRA, and **no work can begin until**

this property has been properly added to the footprint of the site authorized by the operating permits.

1.6.5 Financial Review of Proposed Projects

Executive Director Tim DeGraff, using great awareness of the Agency's finances, was alarmed by the lack of cost-benefit analysis or financial planning that was necessary to support the projects discussed in the LSWMP authored by Cornerstone. Mr. DeGraff determined it will be necessary to reevaluate these projects and seek more economical approaches that could achieve the same goals without the extraordinary spending. Mr. DeGraff also determined that the financial impact on the Agency initiating several major facility improvements and several feasibility studies simultaneously needs to be closely reviewed by the Board of Directors as part of their full operational review of the Agency.

Preliminary estimates construction costs for the Eco Park concept ranged from \$10 - \$18 million. While this project contained several value added services that would benefit the County, additional revenues would be minimal.

The cost of conducting four feasibility studies simultaneously would have required tipping fee increases of 5% or more at a time when local municipalities were dealing with the impacts and uncertainties of the global pandemic. Planning of feasibility studies will be taken into account with future budgets.

Any long term spending plans must be coordinated with the Ulster County Legislature as the Agency needs full legislative approval for any bonding that is over \$500,000. This can convolute the process and lead to longer delays for any scheduled implementation items.

1.6.6 Ulster County Landfill Feasibility Study

The LSWMP discusses conducting a landfill feasibility study during this time period. 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 to environmental groups, Towns, partnerships, State agencies, business associations, private organizations, law firms, and individuals, 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.”

Hydroquests’ project with the Agency involves a step-wise elimination process using a combination of many GIS database tools and rigorous geologic and hydrologic assessments. The goal of this project is 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 an Agency Board of Directors meeting on October 4, 2021, members of the Board 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 against 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 Agency recognizes that a more direct dialogue with community stakeholders is needed to improve public relations and convey the purpose of this study with Hydroquest. The

final report created by Hydroquest was not finalized during this planning period, and therefore it may be discussed in the next biennial update.

1.6.7 Compost Bagging Operation

The LSWMP discussed developing strategies to launch a compost bagging operation, including implementing new marketing and promotion strategies for the bagged compost product. In recent years, the Agency worked collaboratively with the County of Ulster to secure funding for the necessary equipment and supplies to launch the initiative and expand distribution of finished compost for sale to farmers, landscapers, gardeners, and the general public. The Agency acquired the compost bagging machine, bagging supplies, and other compost marketing tools pursuant to this contract. However, due to logistical circumstances discussed in this section, the compost bagging operation did not begin in 2020-2021.

An area of the Agency's Material Recovery Facility (MRF) was originally conceptualized to house the bagging machine and other related operations. This floor space became unavailable when the City of Kingston switched from Single Stream to Dual Stream recycling collection in 2019, and the Agency's former Executive Director allowed the acceptance of a mixed fiber product containing corrugated cardboard and mixed residential news (also referred to as single stream fiber or hard-mix) from the City of Kingston. This mixed fiber could not be logistically staged in any other area of the MRF, and therefore there was no designated space for the compost bagging equipment or operation.

It is widely regarded to be an industry best-practice to package compost in an indoor or covered setting. This is to protect the compost, machinery, bags/supplies, and the workers from weather and the natural elements. Particularly, the qualities of the finished compost being packaged must have a low moisture content to prevent humid conditions that result in mold growth inside the bags, which is highly undesirable to the consumer/grower using the compost. With no available indoor space, it was determined that a secondary facility was necessary.

Agency staff worked collaboratively to strategize alternatives, ultimately conceptualizing a plan to construct a bagging facility with a pre manufactured building, that could house the machine, supplies, and bagging activities. Through further collaboration, other creative solutions were realized, such as creating a designated space for facility tours and education by co-locating a classroom inside the bagging facility. Some preliminary planning work was completed in late 2020 and a proposal was sent to NYSDEC for approval. The development of the compost bagging facility delayed the launch of the bagged compost product. The Agency pursued plans to erect a pre-fabricated steel building to carry out the work of bagging the compost.

However, the site development was delayed during the Agency's permit renewal process (discussed in Section 1.6.4)

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 1 - 2020 Implementation Schedule

Figure 15. Status of adherence to the implementation schedule with appropriate detail for year 2020.

UCRRA LSWMP - 2020 Implementation Year Plan and Schedule		
Law and Legislation		
<p><i>Begin communications with large food scrap generators, Ulster County Law effective July 1, 2020</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • UCRRA participated in a planning meeting with members of the Ulster County Department of the Environment on March 16th 2020 and on September 22nd 2020 to discuss implementation phases of the law and provide guidance on strategies for outreach and education. • Ulster County adopted Resolution No. 224, Adopting Proposed Local Law No. 6 of 2020, amending various provisions of Local Law No. 1 of 2020, which changed the dates of implementation to Jan 1 2021, due to the COVID-19 pandemic. • UCRRA hosted an informational seminar open to prospective New Partners in the Agency's Composting Program on May 7th 2020 via webinar. The webinar gave an overview of the benefits of composting food waste and how to participate in the Agency's program, as well as mentioned the Ulster County law and requirements. The program was advertised on the Agency's newsletter, website, and social media pages. A recording of the webinar was uploaded to the Agency's Youtube Channel. • A description of the law and links to access information about the law was added to the Agency's new website in 2020. • The Recycling Outreach Team dedicated the month of September 2020 to outreach and messaging about the UCRRA Partners in Composting Program, including social media posts, a paid advertisement in the Ulster County Chamber of Commerce newsletter, and a direct mailing to some of the large food scrap generators.
<p><i>Prepare for passing of NYS Food Donation and Food Scrap Recycling Act</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • Agency staff attended two stakeholder engagement meetings in Albany in the Fall of 2019 to gain knowledge and share ideas about the NYS Food Donation and Food Recycling Act. During 2020, a webinar was offered on May 19th 2020 and Agency staff participated in the webinar. • The Agency updated its promotional media in April 2020, including a new guidebook for Partners in Composting Program, new posters to support food

		<p>scrap collection spaces.</p> <ul style="list-style-type: none"> • Agency Recycling Coordinator/Director of Sustainability is an active member of the NYSAR Organics Council and Organics Summit Committee which has been discussing and planning stakeholder engagement with members of NYSDEC. • The Agency updated promotional media in November 2020, including a new 40 page guidebook Waste Reduction & Recycling Guidebook for Businesses, Schools, and Institutions which includes a chapter on composting and how to compost in Ulster County.
<p><i>Provide education about source separation requirements and consequences of failure to comply; hauler notices to customers, website</i></p>	COMPLETED	<ul style="list-style-type: none"> •The Recycling Outreach Team discusses recycling compliance at public speaking events, presentations, and on facility tours. • The Agency added a special webpage for local laws to its website in 2020 that highlights the mandatory recycling law https://ucrra.org/about-us/laws/ •The Agency website also features other pages where mandatory recycling is discussed https://ucrra.org/resources/faq/ •Educators explain (in person, in writing, etc.) how to make an anonymous complaint (such as over the phone via UCRRA Recycling Hotline or through the UCRRA website https://ucrra.org/contact-us/report-non-recycling/) • In 2020, the Recycling Compliance Officer job position became vacant. The Recycling Outreach Team educators and the Director of Operations worked collaboratively to receive and respond to recycling complaints in the absence of a dedicated staff member.
<p><i>Provide education / assistance regarding expectations and enforcement steps to waste haulers</i></p>	COMPLETED	<ul style="list-style-type: none"> • The Agency has a formal process for permitting waste/recycling haulers in the planning unit. The Agency provides recycling education and literature about the mandatory recycling requirements with each Flow Control application. The application features a section about recycling and requires applicants to provide detailed explanations of their service, including lists of acceptable recyclable items to ensure the regulated recyclable materials are accepted. The application also provides a box for haulers to check off if they would like more information regarding recycling. • The Agency investigates all recycling compliance complaints that may include actionable steps against violators, including haulers. All complaints are investigated and violators receive education, assistance, or enforcement measures when necessary. • In 2020, the Recycling Compliance Officer job position became vacant. The Recycling Outreach Team educators and the Director of Operations worked collaboratively to receive and respond to recycling complaints in the absence of a dedicated staff member. • The Annual Waste and Recycling Report also serves as a mechanism to communicate mandatory recycling expectations and support services if necessary.
<p><i>Provide updated laws and regulations to all staff members</i></p>	COMPLETED	<ul style="list-style-type: none"> • A description of local laws and links to access information about the laws was added to the Agency's new website in 2020 https://ucrra.org/about-us/laws/
<p><i>Post new laws and regulations</i></p>	COMPLETED	<ul style="list-style-type: none"> • A description of local laws and links to access information about the laws was added to the Agency's new website in 2020 https://ucrra.org/about-us/laws/

to website		
<i>Actively enforce laws and regulations through education and fines as needed</i>	COMPLETED	<ul style="list-style-type: none"> • Refer to the previous four comments. 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. • The Recycling Outreach team engages in outreach to local municipalities and municipal recycling drop off centers to educate about Agency policies, mandatory recycling, etc.
<i>Inspection of waste hauler collection practices and enforcement</i>	COMPLETED	<ul style="list-style-type: none"> • In 2020 UCRRA permitted haulers through the Agency's flow control licensing application which enables UCRRA to inspect hauler practices. UCRRA employs a compliance officer to ensure local disposal and recycling laws are being practiced by haulers, customers, and residents. • In 2020, the Recycling Compliance Officer job position became vacant. Agency staff worked collaboratively to receive, analyze, process hauler applications in the absence of a dedicated staff member.
Recyclables		
<i>Review pricing for recyclables market</i>	COMPLETED	<ul style="list-style-type: none"> • Trends in commodities pricing are reviewed on a monthly basis by Agency staff and Board of Directors.
<i>Renew the contracts for MRDC's</i>	COMPLETED	<ul style="list-style-type: none"> • UCRRA maintains Municipal Solid Waste Management Agreements for hauling services at several Municipal Recycling Drop Off Centers (MRDCs) in Ulster County. These contracts were renewed for the Towns of Towns of Lloyd, Shawangunk, and Wawarsing, (Nov 2020) and Towns of Denning, Hurley, Marlborough, Olive, Shandaken, Gardiner, Hardenburgh, New Paltz, Rosendale, and Rochester, (December 2020). These contracts expire on December 31st 2025.
<i>Monitor local and regional development of recycling programs and initiatives</i>	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team hosted an informational meeting for municipal recycling drop off centers (Dec 7th 2020). The meeting was an opportunity to answer recycling program questions, network among transfer station operators to share operational challenges or solutions, and learn more about the support services and resources provided by the UCRRA Recycling Outreach Team. A direct mailing of a resource packet was sent to town supervisors, mayors and MRDCs in Ulster County, supplementing the virtual WEBEX meeting. • Agency staff met with public officials from several municipal recycling drop off centers on an individual basis to share resources about community composting initiatives and recycling/reuse programming. (Town of Rochester composting program, Town of Saugerties composting program, New Paltz Reuse Center, Town of Denning) • The Recycling Outreach Team participates in the Hudson Valley Regional Council Materials Management Working Group, which meets regularly to share resources, announcements, and updates on recycling and waste management

		<p>programs throughout the Hudson Valley Region of New York State.</p> <ul style="list-style-type: none"> • Agency staff are members of the New York State Association for Reduction, Reuse, and Recycling (NYSAR3), the United States Composting Council (USCC), the New York State Association for Solid Waste Management (NYSASWM), and the Solid Waste Association of North America to monitor regional development of recycling programs and initiatives, best practices, and emerging technologies. Agency Recycling Coordinator is very active in several of NYSAR3 subcommittees including Single Use Plastic Committee, Organics Council, Women for Recycling, and the Diversity, Equity, and Inclusion Committee.
Data		
<i>Collect and report tonnages of all materials brought into and shipped from UCRRA</i>	COMPLETED	<ul style="list-style-type: none"> • Best practices are maintained to record every transaction brought in to or shipped out of UCRRA facilities • Agency invested in a truck scale replacement project for all three truck scales at the Ulster Transfer Station in 2020. • 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 and Board of Directors.
<i>Collect and report data pertaining to facilities outside of UCRRA but within Ulster County</i>	COMPLETED	<ul style="list-style-type: none"> • The Ulster County Annual Waste & Recycling Report was sent by fax, mail, and email on January 1st 2020 with a deadline to reply by February 28th 2020. The report requests information from facilities located outside of Ulster County that may receive various recyclables that were generated within Ulster County. • The Agency continues to research new or existing industries that operate in the County, in an effort to identify and track all waste and recyclables generated in the planning unit.
<i>Reach out to large generators, including industrial waste generators, within the county on a yearly basis to understand tonnages produce</i>	COMPLETED	<ul style="list-style-type: none"> • The Ulster County Annual Waste & Recycling Report was sent by fax, mail, and email on January 1st 2020 with a deadline to reply by February 28th 2020. The report requests information about annual tonnes produced, including hazardous wastes, bulk liquids, etc. • The Agency continues to research new or existing industries that operate in the County, in an effort to identify and track all waste and recyclables generated in the planning unit.
<i>Continue to collect data on all materials generated in Ulster County that are transported outside of the</i>	COMPLETED	<ul style="list-style-type: none"> • The Ulster County Annual Waste & Recycling Report was sent by fax, mail, and email on January 1st 2020 with a deadline to reply by February 28th 2020. The report requests information about annual tonnes produced. All survey responses were collected and analyzed by the Agency Recycling Coordinator and where applicable extensive efforts were made to improve the quality and consistency of the data gathered by the surveys.

<i>county</i>		
<i>Submit yearly solid waste and recycling reports to NYSDEC</i>	COMPLETED	• All reports submitted in a timely manner per requirements.
Finance		
<i>Continue to pay down debt service</i>	COMPLETED	• \$1,790,000 debt service paid in 2020
<i>Secure funding for feasibility studies</i>	NOT COMPLETED	• Section 1.6 discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.5 all relate to why this task was not completed. Despite this, the Agency staff took meaningful steps to gather information about alternative disposal technologies, which are discussed in Section 3.1.
<i>Apply for grants funding HHW events and educational programs</i>	COMPLETED	<ul style="list-style-type: none"> • The Recycling Coordinator submitted an application for the NYS HHW Assistance Program for expenses in 2019, during 2020. • The Recycling Coordinator actively pursued other grant opportunities, such as the NYS P2I Community Grants Program for a "Zero Waste Seminar Project in 2021" which was selected for funding in 2020. • The Recycling Coordinator submitted an application for the Municipal Waste Reduction and Recycling grant program to cover Agency expenses related to compost facility upgrades and equipment during 2020. • The Recycling Coordinator submitted an application for the Municipal Waste Reduction and Recycling grant program - to cover costs for recycling education and coordination for program year 2021, during 2020.
Feasibility Studies		
<i>Contract a consulting firm to evaluate the possibility of permitting and constructing a local landfill or a BioHiTech Facility within Ulster County</i>	NOT COMPLETED	<ul style="list-style-type: none"> • Section 1.6 discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.6 all relate to why this task was not completed. • Despite this, the Agency staff took meaningful steps to gather information about landfill siting, construction, and permitting, which are discussed in Section 3.1.
Facility Upgrades and Improvements		

<p><i>Secure approval and funding to construct a residential drop-off center at the Ulster Transfer Station</i></p>	<p>NOT COMPLETED</p>	<ul style="list-style-type: none"> • Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.3 - 1.6.5 all relate to why this task was not completed and the desire to remove it from the Implementation Schedule. • The Town of Ulster Residential Recycling Center is located 2.5 miles from the UCRRA Ulster Transfer Station. Residents have ample access to curbside recycling programs as well as residential drop off centers in every municipality (with 19 different facilities). The costs associated with this project are uneconomical considering there is no demonstrated need for such an additional facility in Kingston and this goal needs to be reviewed in the next planning period.
<p><i>Develop concepts for a year-round household hazardous waste center</i></p>	<p>NOT COMPLETED</p>	<ul style="list-style-type: none"> • Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.3 - 1.6.5 all relate to why this task was not completed and the desire to remove it from the Implementation Schedule. • PaintCare NY (a product stewardship program for paint) is launching in New York in 2022 and it will soon become even more convenient for residents to recycle their unwanted and leftover paints and other architectural coatings. UCRRA will participate in Paint Care and expand the HHW program by including the eligible architectural coatings in the PaintCare program. • Despite the implementation obstacles discussed in Section 1.6 the Agency took other meaningful steps to improve the household hazardous waste collection program, by adding a fourth event and making the event schedule bi monthly to offer more options for safe disposal. • The Agency is setting new goals to expand access to hazardous waste collection, such as continuing to work on future programs for fluorescent lighting and battery recycling and evaluating the possibility of rotating 1 of the 4 events to various areas of the county to reach underserved members of the population. This goal needs to be reviewed in the next planning period. • The Recycling Outreach Team plans to improve educational media about reducing use of household hazardous wastes, and eco-friendly alternatives, including updating program media and conducting free webinars about reduction and alternatives.
<p><i>Develop concepts for a new administration building</i></p>	<p>NOT COMPLETED</p>	<ul style="list-style-type: none"> • Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.3 - 1.6.5 all relate to why this task was not completed and the desire to remove it from the Implementation Schedule. • The current Executive Director asserts that the costs associated with creating a new Administration building are unjustifiable. The Agency does not project the size of the administrative work staff to increase significantly over the next ten year planning period. The existing Administration building can be improved in various ways to meet the immediate needs of the Agency, while also significantly improving aspects of environmental sustainability (improve energy efficiency, improve water conservation standards, reduce use of hazardous cleaning products, reduce paper waste, etc.). This goal needs to be reviewed in the next planning period
<p>Organics Diversion</p>		

<i>Seek permit modification to expand composting program</i>	COMPLETED	<ul style="list-style-type: none"> Permit Renewal was submitted to the NYSDEC on April 29th 2019. NYSDEC response included questions, which UCRRA responded to. The Facility permit was renewed effective April 20th 2021 which included an expansion to the amount of source separated organics authorized on an annual basis.
<i>Request bids to clear acreage on recently acquired land to expand the composting program</i>	COMPLETED	<ul style="list-style-type: none"> The Agency found alternative ways to expand the composting operation without the need to clear land and relocate the entire operation. These concepts are discussed in Section 1.3.2 The Agency was able to conduct this site improvement using in-house labor which was also very cost effective..
<i>Develop plans for expansion of composting system.</i>	COMPLETED	<ul style="list-style-type: none"> 2020-2021 Compost Facility Improvements included an expanded concrete pad, new processing equipment, bagging facility, and other enhancements utilizing the existing footprint of the Organics Recovery Facility. These improvements are discussed in detail in Section 1.3.2
<i>Install composting demonstration site for hands-on training</i>	COMPLETED	<ul style="list-style-type: none"> During 2020 the Agency attained some of the teaching tools necessary to construct the demonstration site, including various compost bins and educational media associated with this project, which was delayed due to covid-19 pandemic.
<i>In preparation of upcoming NYS Food Donation and Food Scrap Recycling Act, update existing media for composting program</i>	COMPLETED	<ul style="list-style-type: none"> The Agency updated its promotional media in April 2020, including a new guidebook for Partners in Composting Program, new posters to support food scrap collection spaces, a new Home Composting Guidebook, and updated a Master Contact List of Food Waste Management Services available in Ulster County. Media is discussed in detail in Section 1.4.6
<i>Identify waste generators in Ulster County that meet the NYS Food Donation and Food Scrap Recycling Act requirements</i>	COMPLETED	<ul style="list-style-type: none"> Using NYS Pollution Prevention Institute database and methodology, the Agency Recycling Coordinator developed a list of generators within 25 miles of the Agency. These generators represent the regulated community at the time of the search. During meetings with the Ulster County Department of the Environment, the RC discussed differences in the Ulster County regulated community, compared to the State law's regulated community.
<i>UCRRA to begin bagging compost; incorporate new promotional and marketing</i>	NOT COMPLETED	<ul style="list-style-type: none"> Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.2, 1.6.4, and 1.6.7 all relate to why this task was not completed.

<i>strategies</i>		
<i>Maintain memberships with USCC and STA</i>	COMPLETED	<ul style="list-style-type: none"> • The Recycling Coordinator renewed USCC membership on time and completed the quarterly compost testing as required by the USCC STA program • Historical Compost Technical Data Sheets are viewable in an online database at https://ucrra.org/compost-for-sale/compost-test-results/
<i>Monitor local and regional developments of organics recovery programs and initiatives</i>	COMPLETED	<ul style="list-style-type: none"> •The Recycling Coordinator and Recycling Educator participate in the Hudson Valley Regional Council Materials Management Working Group, which meets regularly to share resources, announcements, and updates on recycling and waste management programs throughout the Hudson Valley Region of New York State. •Agency staff are members of the New York State Association for Reduction, Reuse, and Recycling (NYSAR3), the United States Composting Council (USCC), the New York State Association for Solid Waste Management (NYSASWM), and the Solid Waste Association of North America to monitor regional development of recycling programs and initiatives. Staff also subscribe to industry organization list serves where they receive relevant updates, and staff attend industry trade group conferences to access relevant updates and learn about new initiatives.
<i>Promote backyard composting and assist with implementation practices to residents, schools and business as needed</i>	COMPLETED	<ul style="list-style-type: none"> •January 30, 2020 presented to the Environmental Club and Faculty at Rondout Valley School to discuss school composting •February 10, 2020 met with some members of the Hudson Valley Garlic Festival Committee to discuss composting at the festival •February 27, 2020 met with Hutton Brickyard regarding possibly becoming a partner in composting •March 11, 2020 held an Informational Open House for School Administrations which the Recycling Outreach Team discussed composting and the Food Scrap Law •March 4, 2020 Bard College faculty members came for a tour of UCRRA's Organic Facility •March 5, 2020 The Ozone Store owner and Pine Plains Conservation Advisory Committee member came for a tour of the Organics Facility •March 6, 2020 home schooled youth and parents came for tour •Woodstock Buddhist Monastery library staff came for a tour of the Organic Facility •Recycling Coordinator did a virtual presentation for Warren/Washington Counties composting meeting •May 2, 2020 (virtual) held Intro to Home Composting Seminar and Advanced Composting Seminar •May 7, 2020 (virtual) held Partners in Composting Seminar for businesses •The month of May, in honor of Compost Awareness Week, the Recycling Outreach Team prepared a month long campaign with social media posts, radio promos and print advertising •Recycling Coordinator prepared a Guest Blog for the US Composting Council Soil Builder's Blog. "A Composter's Guide to Project Drawdown". •June 16, 2020 Recycling Coordinator did a virtual presentation regarding UCRRA's composting operation for the NJ Composting Council •September 21, 2020 Recycling Coordinator did a virtual presentation to the US

		<p>Composting Council: Compost Conversations</p> <ul style="list-style-type: none"> •September 25, 2020 (virtual) Using Compost in the Garden seminar •September 30, 2020 (virtual) Cold Weather Composting seminar •October 6, 2020 Partners in Composting meeting and tour with Phenicia Diner •October 14, 2020 Partners in Composting meeting and tour with Sunflower Supermarket •October 20, 2020 tour with a compost operator at the Lower East Side Ecology Center
Education and Outreach		
<i>Participation in regional conferences and trainings to obtain information on evolving solid waste management technology and practices, including recycling and composting</i>	COMPLETED	<ul style="list-style-type: none"> • The 2020 NYS Organics Summit was held via webinar in May due to concerns over COVID-19. The Agency Recycling Coordinator and Recycling Educator participated in all three webinars. • The Recycling Coordinator and Recycling Educator and Board Members Lisa Mitten, Katherine Beinkafner, and Jo ANn Myers participated in a training held in Albany by Zero Waste USA • NYSASWM trip to NYC <p>Staff participated in dozens of webinars and teleconferences as professional development on industry programs, technology, solutions, etc</p>
<i>Measure effectiveness of education programs</i>	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team has a program tracking system to record direct and indirect contact with the community. The tracking system includes date, duration, type of program, how many adults/youth were reached and program description. • The Team frequently conducts class exit surveys to gauge community interests and effectiveness of Ulster County Recycles Programs. The Team reviews survey data with staff and Board of Directors.
<i>Update UCRRA website</i>	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team and Administrative Assistant regularly update the website with any service changes, announcements, notices of special meetings or classes, etc. The Recycling Outreach Team and Administrative Assistant kept other staff members apprised of updates or changes.
<i>Secure funding for a vehicle to create a mobile classroom for recycling education</i>	NOT COMPLETED	<ul style="list-style-type: none"> •Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.5 all relate to why this task was not completed and the desire to remove it from the Implementation Schedule. •The creation of the Sustainable Living Center and the Compost Demonstration Garden will create additional opportunities for outreach and community engagement. The Recycling Outreach Team has created ample educational media and teaching tools that can be brought to any site to engage the public (including banners, display boards, audio/visual equipment, interactive games, etc.). •The Recycling Outreach Team can further build on 'grab-and-go' educational programs by creating media kits that can be signed-out by climate smart committees or for use by environmental groups. The Recycling Outreach Team

		also plans to create educational displays that can be reserved and rotated around to local public libraries, town halls, or schools, which also satisfies the core goal of this objective without investing uneconomically in a vehicle or mobile classroom.
<i>Evaluate conversion of the current administration building into an education center</i>	NOT COMPLETED	Comments above also apply to this task.
<i>Implement and evaluate public communications through print media advertising, social media, newsletters, flyers, and radio public service announcements</i>	COMPLETED	<ul style="list-style-type: none"> • During 2020, the Recycling Outreach Team advertised monthly in the Daily Freeman featuring a different topic each month. • Social media pages were updated weekly to coordinate with the month's theme/topic/focus area. • An e-newsletter was sent to a subscriber list on a quarterly basis or more often for special announcements. • Radio public service announcements aired from March-July; September-December with commercials regarding Electronic Recycling, Rethinking Waste-7Rs, Earth Day, Compost for Sale, Compost Awareness Week, Wishful Recycling, Recycling Outreach Team Services, Plastic Free July, ARD and Holiday Tips.
<i>Provide tours and hands-on learning experiences to the public</i>	COMPLETED	<ul style="list-style-type: none"> • January 15, 2020 met with Saugerties Public Library Club to discuss Zero Waste presentation for the town • January 24, 2020 met with Town of Rochester Conservation Committee to discuss recycling and composting and a tour was provided of UCRRA • January 30, 2020 met with Rondout Valley School Environmental Club and Faculty to discuss school composting • February 4, 2020 presentation at the CCE staff meeting to discuss recycling right and composting • February 28, 2020 provided a presentation and tour to New Paltz Special Education Life Skills Class • March 4, 2020 a tour provided to Bard college Sustainability Committee and Pine Plains resident from the Sustainability Committee • March 5, 2020 tour provided to The Ozone to discuss the Partners in Composting program • March 6, 2020 provide a tour, presentation and upcycle project for a home school group • March 9, 2020 provided a tour to the Woodstock Buddhist Monastery • March 11, 2020 provided a tour and presentation of the laws and what UCRRA offers to schools. This Informational Meeting was for superintendents, principals or school representatives • March 30, 2020 Spring Cleaning-Green Up your Clean Up class • May 2, 2020 (virtual) Intro to Home Composting class and Advanced Composting class • May 7, 2020 (virtual) Partners in Composting Program webinar • July 23, 2020 tour for the YMCA Farm Youth Project • August 19, 2020 tour for Legislator Criswell

		<ul style="list-style-type: none"> •September 3, 2020 tour for the Town of Denning Transfer Station Operator •September 25, 2020 (virtual) Using Compost in Garden webinar •September 30, 2020 (virtual) Cold Weather Composting/Vermicomposting 101 webinar •September 16, 2020 provided a tour for the Ulster County Legislators •October 6, 2020 Partners in Composting meeting and tour with Phenicia Diner •October 14, 2020 Partners in Composting meeting and tour with Sunflower Supermarket •October 20, 2020 tour with a compost operator at the Lower East Side Ecology Center •October 22, 2020 met with Ulster County Garden Club to discuss recycling and waste reduction • October 27, 2020 (virtual) presentation Rethinking Our Waste webinar • November 16, 2020 (virtual) presentation Recycle Right!
<i>Actively engage the community to be involved with recycling and waste programs</i>	COMPLETED	The Recycling Outreach Team promotes local recycling programs, Repair Cafes, Donation and Reuse Centers, and other strategies for zero waste through free educational classes, hands-on workshops, use of social media and social marketing (radio PSAs), newsletters, fact sheets, games, and other initiatives that encourage source reduction and waste sustainability. Due to COVID-19 many community events were canceled but the Recycling Outreach Team continued to engage the community with distance learning tools.
<i>Targeted outreach and community engagement efforts to local commercial businesses</i>	COMPLETED	<ul style="list-style-type: none"> • While creating the Agency's new website, special consideration was made to make it easier for businesses to find resources and information relevant for them. The new website now has special resources pages for businesses and is organized to justify various audiences (residential vs. commercial). This is a major improvement to the way the Agency displays information online in a more user-friendly way. • Recycling Outreach Team engaged in targeted approaches to reach local businesses. The Team offered a special webinar on April 1st 2020 geared towards the business community to learn about the UCRRA Partners in Composting program and other resources/services offered by UCRRA or community-wide. • The Agency ran a special ad campaign in the Ulster County Chamber of Commerce newsletter September-December 2020 to raise awareness of the Agency services and to promote recycling and composting. • Following the Annual Waste and Recycling Report process, Agency staff mailed educational materials to any business or facility that requested more information about recycling. • In 2020 the Recycling Outreach Team developed new media content for a 40 page guidebook called "Waste Reduction and Recycling for Businesses, Schools, and Institutions. Once printed, the new guidebook was also added to the website as a PDF file.
<i>Maintain communication with commercial businesses</i>	COMPLETED	<ul style="list-style-type: none"> •Note comments above also apply to this task. •Additionally, information and resources are available by request. Agency staff is available for free consultation services to offer support services for any local business, organization, or facility interested in programmatic development

<i>regarding grant information, available programs, and resource material</i>		opportunities.
Annual review of website, flyers, brochures, etc. as needed	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team and Administrative Assistant regularly updated the website with any changes or additions. • The Recycling Outreach Team met regularly to review, design and develop new flyers, brochures, banners, posters and guide books. The Recycling Outreach Team developed 6 new retractable banners for community presentations, events, etc. These banners were: "Our Mission", "Think Beyond the 3Rs", "Know Your Program" , "Home Composting", "You Can Make a Difference" and "Help Us Grow Ulster Green". The guide books developed where: Backyard Composting, Partners in Composting and Waste Reduction and Recycling Guide for Businesses, Schools and Institutions. •The flyers/brochures/poster developed were: Rethinking Waste multi-flyer (English and Spanish), Recycle Right Poster, Avoid Wishcycling Poster, Partners in Composting Poster, Compost for sale flier, promo flier for Partners in Composting, and Eat First signs.
Waste Export		
<i>Continue to ship MSW and C&D via long haul trailers to Seneca Meadows Landfill (anticipated for years 2020 through 2024)</i>	COMPLETED	•Waste is exported daily.
Technology Assessment		

<p><i>Continue to evaluate different and emerging technologies for waste management</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • In September 2020, Agency staff met with representatives from Hughes Energy. Dane McSpedon and Joseph Betro presented information about the Hughes Energy company and the planned construction of their new facility at the Greene-Del Transfer Station. Hughes Energy discussed opportunities for a public-private partnership in which Hughes would construct a 120,000 sq. ft. facility that could process 400 tons per day unsorted MSW, and the facility could operate under an existing UCRRA permit authorization. • In October 2020, Agency staff met with representatives from Caribou Biofuels to discuss their IIRPRG technology. IIRPRG = Inclined Indirect Flaming Pyrolysis Rotary Gasification. The gasifier can convert any carbonaceous material (ag waste, wood waste, MSW, etc.) to a fuel, or sequestered into biochar, or created into a syn gas that can be used to power a diesel engine for electrical power. Using 'flash gasification' MSW can be loaded into the unit, with very low emissions and ash byproduct. Their research continues ; partnering with RIT for a demonstration site at a Waste Management site in Rochester NY and installing a unit in California for controlled burns in the forest to mitigate forest fires. Kiernan expressed interest in working with UCRRA and other neighboring counties to continue the demonstration of the unit with the hopes that it can be scaled up to manage larger volumes of MSW. https://cariboubiofuels.com/ • Green Waste Energy had previously been in touch with Board Member Kathy Beinkafner and former Executive Director to provide an overview of the company and technology. Green Waste Energy (GWE) operates an Advanced Recycling and Energy Conversion (AREC) pyrolysis process to convert municipal solid waste, sewage sludge, biomass or any matter with a calorific value into a synthetic gas (syngas) that will be used as a fuel for engines to produce electricity. An AREC plant can process 225 tons per day (1 line) of municipal solid waste, projected to produce ~5 MW of power for export depending on the Btu level of the trash. GWE has three plants that have been running for more than three years in South Africa with excellent performance; each processes a different type of waste. GWE has two plants under construction in the northeast; one will process 25 tpd of dry waste water treatment sludge at a site in upstate NY and the other will process 50 tpd of medical waste at a New England site. They should commence operations in the fourth quarter and first quarter 2021 respectively. Agency staff completed a questionnaire to fill out basic information about the waste received at UCRRA, and Executive Director Tim Degraff continued communications with GWE and invited them to present at the March 2021 Regular Board Meeting.
<p><i>Ongoing regionalization update and review of nearby counties</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> •The Recycling Outreach team participates in Hudson Valley Regional Council Materials Management Group to network with regional waste/recycling professionals and stay up to date on progress of regional solid waste programs. •Agency staff are also active in other industry groups such as NYSAR3 which creates opportunities for regional networking and collaboration. .

1.7.2 Year 2 - 2021 Implementation Schedule

Figure 16. Status of adherence to the implementation schedule with appropriate detail for year 2021.

UCRRA LSWMP - 2021 Implementation Plan and Schedule		
Law and Legislation		
<i>Prepare for implementation of NYS Food Donation and Food Scrap Recycling Act</i>	COMPLETED	<ul style="list-style-type: none"> • UCRRA participated in several planning meetings with members of the Ulster County Department of the Environment on January 15th 2021 and March 17th 2021 and October 13th 2021 to discuss implementation phases of the law and provide guidance on strategies for outreach and education. • Ulster County Department of the Environment produced an official memo to the Ulster County Energy and Environment Committee, dated March 1st 2021 requesting changes to the dates of implementation due to staffing issues, generator identification methodology, and the need to define financial hardship/waivers and identify roles and responsibilities for implementation, enforcement, and education. • A description of the law and links to access information about the law was added to the Agency's new website in 2020. • The Recycling Outreach Team dedicated the month of May 2021 to International Compost Awareness Week, including outreach and messaging about the UCRRA Partners in Composting Program. This ICAW campaign included social media posts and a paid advertisement schedule in the Daily Freeman newspaper. UCRRA Staff participated in webinars, meetings, and updates regarding the NYS Food Donation and Food Scrap Recycling Act including January 23rd 2021, June 22nd 2021, and at the NYS Organics Summit Annual Conference April 14-16 2021.
<i>Provide education about source separation requirements and consequences of failure to comply; hauler notices to customers, website</i>	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team discusses recycling compliance at public speaking events, presentations, and on facility tours. • The Agency added a special webpage for local laws to its website in 2020 that highlights the mandatory recycling law https://ucrra.org/about-us/laws/ • The Agency website also features other pages where mandatory recycling is discussed https://ucrra.org/resources/faq/ • In person and at community events and presentations, educators explain (in person, in writing, etc.) how to make an anonymous complaint (such as over the phone via UCRRA Recycling Hotline or through the UCRRA website https://ucrra.org/contact-us/report-non-recycling/) • In 2020, the Recycling Compliance Officer job position became vacant and remained vacant throughout 2021. The Recycling Outreach Team educators and the Director of Operations worked collaboratively to receive and respond to recycling complaints in the absence of a dedicated staff member.

<p><i>Provide education / assistance regarding expectations and enforcement steps to waste haulers</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • The Agency has a formal process for permitting waste/recycling haulers in the planning unit. The Agency provides recycling education and literature about the mandatory recycling requirements with each Flow Control application. The application features a section about recycling and requires applicants to provide detailed explanations of their service, including lists of acceptable recyclable items to ensure the regulated recyclable materials are accepted. The application also provides a box for haulers to check off if they would like more information regarding recycling education best practices, and follow up info is distributed. • The Agency investigates all recycling compliance complaints that may include actionable steps against violators, including haulers. All complaints are investigated and violators receive education, and assistance, as necessary. • In 2020, the Recycling Compliance Officer job position became vacant and remained vacant through the first half of 2021. The Recycling Outreach Team educators and the Director of Operations worked collaboratively to receive and respond to recycling complaints in the absence of a dedicated staff member. • The Annual Waste and Recycling Report also serves as a mechanism to communicate mandatory recycling expectations and support services if necessary.
<p><i>Provide updated laws and regulations to all staff members</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • A description of local laws and links to access information about the laws was added to the Agency's new website in 2020 https://ucrra.org/about-us/laws/ • Agency staff communicate with the Board of Directors, UCRRA staff, and community members, to inform of statewide or regional legislation, policies, or emerging topics of interest.
<p><i>Post new laws and regulations to website</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • A description of local laws and links to access information about the laws was added to the Agency's new website in 2020 https://ucrra.org/about-us/laws/
<p><i>Actively enforce laws and regulations through education and fines as needed</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • Refer to the previous four comments. 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. • The Recycling Outreach team engages in outreach to local municipalities and municipal recycling drop off centers to educate about Agency policies, mandatory recycling, etc.

<i>Inspection of waste hauler collection practices and enforcement</i>	COMPLETED	<ul style="list-style-type: none"> • In 2021 UCRRA permitted haulers through the Agency's flow control licensing application which enables UCRRA to inspect hauler practices. UCRRA employs a compliance officer to ensure local disposal and recycling laws are being practiced by haulers, customers, and residents. • General Agency operating procedure is to inspect all incoming loads as they are received, so waste haulers are also monitored for live loads containing SSR in the disposal stream. • In 2020, the Recycling Compliance Officer job position became vacant and remained vacant for the first half of 2021. Agency staff worked collaboratively to receive, analyze, process hauler applications in the absence of a dedicated staff member.
Recyclables		
<i>Review pricing for recyclables market</i>	COMPLETED	<ul style="list-style-type: none"> • Trends in commodities pricing are reviewed on a monthly basis by Agency staff and Board of Directors.
<i>Identify system enhancements to increase recycling rates and/or optimize recycling revenue</i>	COMPLETED	<ul style="list-style-type: none"> • Staff continued to evaluate the contamination of recycling loads and used incentives to lower contamination. • Recycling Outreach Team and Agency Director of Operations provide feedback on contaminated loads, and educate municipalities about unacceptable recyclables and best practices for educating residents. New contracts with Municipal Recycling Drop Off Centers expanded language about recycling contamination which was an improvement towards this goal. • Agency staff seeks professional development opportunities to stay connected with industry groups, councils, and committees, and attends conferences, summits etc. to stay informed about potential opportunities and innovations for dual stream recycling systems
<i>Monitor local and regional development of recycling programs and initiatives</i>	COMPLETED	<ul style="list-style-type: none"> • The Recycling Outreach Team maintained communications with all municipal recycling drop off centers in 2021. The Team updated the master contact list for all MRDCs and requested updated information about the scope of services and additional recycling items accepted at each facility. The UCRRA webpage was updated and a hard copy of this list was mailed to all MRDCs in an annual resource packet. • Agency staff participate in the Hudson Valley Regional Council Materials Management Working Group, which meets regularly to share resources, announcements, and updates on recycling and waste management programs throughout the Hudson Valley Region of New York State. However, for unknown reasons this group did not meet in 2021. Agency staff continued to pursue networking opportunities to stay informed about regional developments in sustainable materials management. • Agency staff are members of the New York State Association for Reduction, Reuse, and Recycling (NYSAR3), the United States Composting Council (USCC), the New York State Association for Solid Waste Management (NYSASWM), and the Solid Waste Association of North America to monitor regional development of recycling programs and initiatives, best practices, and emerging technologies. Agency Recycling Coordinator is very active in several of NYSAR3 subcommittees including Single Use Plastic Committee, Organics

		<p>Council, Women for Recycling, and the Diversity, Equity, and Inclusion Committee.</p> <ul style="list-style-type: none"> • January 21 attended webinar: Expanded Polystyrene Foam Container & Loose Fill Ban in NYS
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 • Agency invested in a truck scale replacement project for all three truck scales at the Ulster Transfer Station in 2020. • 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 and Board of Directors. "
Collect data pertaining to facilities outside of UCRRA	COMPLETED	<ul style="list-style-type: none"> • The Ulster County Annual Waste & Recycling Report includes contracts for recycling/waste handling facilities that may be located outside of Ulster County, but it is known that they handle waste that originated from within the planning unit. • The Agency continues to research and identify new or existing industries that may be added to the contact list in an effort to attain the best data set possible about total waste generation in the planning unit.
Reach out to large generators, including industrial waste generators, within the county on a yearly basis to understand tonnages produce	COMPLETED	<ul style="list-style-type: none"> • The Ulster County Annual Waste & Recycling Report was sent by fax, mail, and email on January 1st 2021 with a deadline to reply by February 26th 2021. The report requests information about annual tonnes produced, including hazardous wastes, bulk liquids, etc. All survey responses were collected and analyzed by the Agency Recycling Coordinator and compiled into an Executive Summary document. • The Agency continues to research new or existing industries that operate in the County, in an effort to identify and track all waste and recyclables generated in the planning unit.
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 Ulster County Annual Waste & Recycling Report was sent by fax, mail, and email on January 1st 2021 with a deadline to reply by February 26th 2021. The report requests information about annual tonnes produced. All survey responses were collected and analyzed and where applicable extensive efforts were made to improve the quality and consistency of the data gathered by the surveys.

<i>Submit yearly solid waste and recycling reports to NYSDEC</i>	COMPLETED	<ul style="list-style-type: none"> • All reports submitted in a timely manner per requirements.
<i>Use information collected to help establish tipping fees and budget estimates</i>	COMPLETED	<ul style="list-style-type: none"> • Completed on an annual basis, the Executive Director/Controller conducts a review of waste tonnage data from the previous 3.5 years to estimate waste metrics and tipping fees for the following year. A review of Agency revenues and expenditures is evaluated into a detailed draft budget which is presented to the Board of Directors at the August Regular Board Meeting. • The 2021 operating budget called for several distinct changes to some fee structures, which were ultimately approved by the Board of Directors. These changes included: the mattresses/box spring fee changed from per ton +\$7/unit after the first five units to per ton +\$5 per unit; the tire fees changed from per ton +\$5/small unit and \$20/large unit to \$8/small unit and \$26/large unit; and fluorescent bulb fee changed from per ton plus \$4/unit to per ton plus \$6/unit.
Finance		
<i>Continue to pay down debt service</i>	COMPLETED	<ul style="list-style-type: none"> • \$1,790,000 debt service paid in 2020
<i>Apply for grants funding HHW events and educational programs</i>	COMPLETED	<p>Because there were no HHW events held in 2020, no application was submitted for the NYS HHW Assistance Program for 2020.</p> <ul style="list-style-type: none"> • The Recycling Outreach Team effectively secured funding and administered projects under the NYS P21 Community Grants Program, the NYS Food Scrap Reduction and Food Scrap Recycling Grant, and the NYS Municipal Waste Reduction and Recycling grant program throughout 2021. • The Recycling Coordinator submitted an application for the Municipal Waste Reduction and Recycling grant program to cover Agency expenses related to compost facility upgrades and equipment during 2020-2021. • The Recycling Coordinator submitted an application for the Municipal Waste Reduction and Recycling grant program - to cover costs for recycling education and coordination for program year 2022, during 2021.
<i>Secure funding for feasibility studies</i>	NOT COMPLETED	<ul style="list-style-type: none"> • Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.6 all relate to why this task was not completed. This goal needs to be reviewed in the next planning period.
<i>Secure funding for mobile classroom vehicle, compost expansion, household hazardous</i>	NOT COMPLETED	<ul style="list-style-type: none"> • Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.6 all relate to why this task was not completed and the desire for it to be removed from the Implementation Schedule.

waste center, and new administration building		
Feasibility Studies		
<i>Contract with a consulting firm to evaluate the possibility of infrastructure upgrades to the existing materials recovery facility and other equipment related to recycling</i>	NOT COMPLETED	Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.6 all relate to why this task was not completed. This goal needs to be reviewed in the next planning period
<i>Contract with a consulting firm to evaluate the possibility of exporting MSW and C&D to landfills via railroad system taking into consideration locations for spur connections, ability to site a transfer near the railroad, and impacts to community (odors and truck traffic to facility)</i>	NOT COMPLETED	Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.6 all relate to why this task was not completed. This goal needs to be reviewed in the next planning period.
Facility Upgrades and Improvements		
<i>Clear space and construct a residential drop-off center at the Ulster</i>	NOT COMPLETED	Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.6 all relate to why this task was not completed and the desire for it to be removed from the Implementation Schedule.

<i>Transfer Station</i>		
<i>Select a consulting firm to design new HHW center and new administration building</i>	NOT COMPLETED	<ul style="list-style-type: none"> •Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1 - 1.6.6 all relate to why this task was not completed and the desire for it to be removed from the Implementation Schedule.
Organics Diversion		
<i>Begin to clear acreage and construct expansion the composting program</i>	NOT COMPLETED	<ul style="list-style-type: none"> • The Agency found alternative ways to expand the composting operation without the need to clear land and relocate the entire operation. These concepts are discussed in Section 1.3.2 • The Agency also identified potential contingency sites that could be developed in the future if necessary.
<i>Continue researching waste generators in Ulster County that meet the NYS Food Donation and Food Scrap Recycling Act requirements</i>	COMPLETED	<ul style="list-style-type: none"> • The NYS Pollution Prevention Institute created a database and methodology to identify generators representing the regulated community. During 2021, Ulster County Department of the Environment utilized the existing lists from the NYS P21 Organics Resource Locator Tool to reach out to large food waste generators and initiate communications about the requirements of the law. • Agency staff continued to network and communicate with the UCDOE to understand the process, opportunities, and challenges of evaluating designated large food scrap generators in the planning unit.
<i>Install composting demonstration site for hands-on training</i>	COMPLETED	<ul style="list-style-type: none"> •During 2021 the Agency continued to gather supplies and the necessary teaching tools to construct the demonstration site, including various composting educational signs and educational media. Some site prep work was completed in the Spring and Summer to get the site ready for the fencing installation. The area was measured and prepped for fence installation. • Agency staff networked with local community groups to develop plans for other components of environmental education, collaborating on designs for raised garden beds and rainwater harvesting structures.
<i>Reach out to waste generators to inform them of the NYS Food Donation and Food Scrap Recycling Act requirements</i>	COMPLETED	<ul style="list-style-type: none"> •The NYS Pollution Prevention Institute created a database and methodology to identify generators representing the regulated community. During 2021, Ulster County Department of the Environment utilized the existing lists from the NYS P21 Organics Resource Locator Tool to reach out to large food waste generators and initiate communications about the requirements of the law. • Agency staff continued to network and communicate with the UCDOE to understand the process, opportunities, and challenges of evaluating designated large food scrap generators in the planning unit.

<i>UCRRA to begin bagging compost; update promotional and marketing strategies.</i>	NOT COMPLETED	Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.2, 1.6.4, and 1.6.7 all relate to why this task was not completed.
<i>Evaluate success of bagged compost material</i>	NOT COMPLETED	Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.2, 1.6.4, and 1.6.7 all relate to why this task was not completed.
<i>Maintain memberships with USCC and STA</i>	COMPLETED	<ul style="list-style-type: none"> • The Agency complied with all program rules to ensure good standing with the USCC and the STA program. • In June 2021, the Agency renewed membership with the USCC for the 8th year in a row. • STA renewal was delayed by USCC making changes to their renewal process online. A temporary certificate was offered to show that the Agency did not lapse in certification during this time period USCC delayed the renewal process until September 1st 2021. • The Agency continues to comply with all program rules and meets the standards and specifications of the Seal of Testing Assurance Certified Compost Program.
<i>Monitor local and regional developments of organics recovery programs and initiatives</i>	COMPLETED	<ul style="list-style-type: none"> • Agency staff participates in the NYSAR3 Organics Council whose members represent diverse pool of professionals in the organics recycling industry. The Council meets monthly and includes "updates from around the state" section of monthly meetings. • Agency staff participates in the NY Organics Summit Planning Committee, and attends the annual conferences, allowing networking and continued education about organics recycling across the region and state. In 2021, the UCRRA Director of Sustainability was a panelist in session "Ask the Experts: Outreach in Your Community". • Agency staff also attended the NY Federation Solid Waste Association Annual Conference (virtual) May 18th - 20th 2021 • UCRRA hosts tours for visiting groups that are researching zoning, RFP process, technology selection, or other aspects of organics recycling. In 2021, UCRRA hosted tours for the Germantown Climate Smart Communities Waste Task Force, Barton & Loguidice with clients from Connecticut, Saugerties Town Planning & Zoning Committee, members of Woodstock Environmental Commission OTHER • Agency staff has been in contact with neighboring communities (Sullivan, Orange, Greene) to share information and planning tips about launching organics recycling programs.

<p><i>Promote backyard composting and assist with implementation practices to residents, schools and business as needed</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> •The Recycling Outreach Team (ROT) educates the public about the UCRRA's composting operations, home composting, business composting options and food reduction. •UCRRA website has information for residents, businesses, schools, etc. to learn more about the options with home/business composting. •The ROT published new media in 2021; a new Home Guide to Reducing Food Waste. •The ROT hosted a compost bin sale and provided all residents with a kitchen caddy, Home Guide to Reducing Food Waste, 'Eat First' refrigerator shelf card and the Backyard Compost Guide. •In celebration of ICAW (International Compost Awareness Week) the ROT prepared a month (May) long social media campaign including radio campaigns and print advertising as well. •The ROT continued to develop the new UCRRA Home Composting Demonstration Garden. •The Recycling Outreach Team prepared media kits for various groups and organizations (Kingston Library, Cornell Cooperative Extension, Woodstock Earth Day, Ulster County Fair) for composting displays and event resources. •February 2nd presented to the Ulster County Garden Club (virtual) •March 26th provided a tour to White Feather Farm •April 14th Panelist at the NYS Organics Summit "Ask the Experts: Outreach in Your Community" •April 16th provided a tour to the Germantown Climate Smart Communities Waste Management Task Force •April 28th Intro to Home Composting Seminar hosted by The Recycling Outreach Team held virtually •April 30th provided a tour to various interested residents •May 1st Compost Bin and Rain Barrel Sale-literature and kitchen caddies where supplied to every resident. Staff answered any questions. •May 5th Using Compost in the Garden seminar hosted by the The Recycling Outreach Team held virtually •May 6th Tour of various interested candidates of the Saugerties Town Board, Ulster County Legislature •May 14th Tour for interested residents •May 25th Youth Composting Program for WrapAround Services of the Hudson Valley •May 26th Tour for interested residents •June 2nd Composting presentation for 'Eat Well Kingston' •June 2nd Composting presentation for Woodstock Environmental Commission •June 23rd Tour for interested residents •July 9th-tour provided to Woodstock Bring Your Own •July 19th tour provided to Barton & Loguidice, Saugerties Town Planner & Saugerties Zoning Committee •July 20th tour provided to the Ulster County Garden Club
<p>Education and Outreach</p>		

<p><i>Participation in regional conferences and trainings to obtain information on evolving solid waste management technology and practices, including recycling and composting</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • Agency staff are members of SWANA, the Solid Waste Association of North America and the NYS chapter, the USCC US Composting Council, and NYSAR3 the New York State Association of Reduction, Reuse, Recycling and participates in the NYSAR3 Organics Council and other NYSAR3 committees. • Agency staff participates in the NY Organics Summit Planning Committee, and attends the annual conferences, allowing networking and continued education about organics recycling across the region and state. • Agency staff also attended the NY Federation Solid Waste Association Annual Conference (virtual) May 18th - 20th 2021 • Agency staff attended the New York State Association of Reduction, Reuse, Recycling Annual Conference (November 2021) • Staff participates in other webinars and professional development opportunities to learn about evolving sustainable materials management solutions
<p><i>Measure effectiveness of education programs</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • The Recycling Outreach Team has a program tracking system that they keep track of direct and indirect contact with the community. The tracking system includes date, duration spent, type of program, how many adults/youth were involved and program description. The tracking system is in an excel spreadsheet. • Exit surveys are done for all classes that were held. These surveys help measure effectiveness of the class and what other topics should be include in the recycling education program.
<p><i>Purchase vehicle for mobile classroom education program</i></p>	<p>NOT COMPLETED</p>	<p>Section 1.6 (p.34) discusses Plan Implementation Challenges, noting that examples 1.6.1-1.6.5 all relate to why this task was not completed and the desire to remove it from the Implementation Timeline.</p>
<p><i>Implement and evaluate public communications through print media advertising, social media, newsletters, flyers, and radio public service announcements</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • During 2021, the Recycling Outreach Team advertised (print) with the Daily Freeman, Ulster County Chamber, Hudson Valley One, Ulster Publishing featuring Spring Compost Bin & Rain Barrel Sale and Spring Classes, UCRRA Partners in Composting Program and ICAW, promoting UCRRA ZW Seminar Project, . • Social media pages were updated weekly to coordinate with the month's theme/topic/focus area. • An e-newsletter was sent to a subscriber list on a quarterly basis or more often for special announcements. • Radio public service announcements aired from March-July; October-December with commercials regarding Business Recycling, Electronic Recycling, ICAW (International Compost Awareness Week), Household Hazardous Waste, Rethinking Waste-7Rs, Earth Day, Wishful Recycling, Plastic Free July, ARD (America Recycles Day), Partners in Composting and holiday tips. • All surveys ask where the participant heard of the event, so the Recycling Outreach can evaluate the best avenues for advertising.

<p><i>Annual review of website, flyers, brochures, etc. as needed</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> • The Recycling Outreach Team and Administrative Assistant regularly update the website with any service changes, announcements, notices of special meetings or classes, etc. The Recycling Outreach Team and Administrative Assistant kept other staff members apprised of updates or changes. • The Recycling Outreach Team prepared new stickers for recycling, trash and compost in English & Spanish • The Recycling Outreach Team prepared a Home Guide to Reducing Food Waste and Compost Demonstration Sign for the Compost Demonstration Site
<p><i>Provide tours and hands-on learning experiences to the public</i></p>	<p>COMPLETED</p>	<ul style="list-style-type: none"> •February 2nd presented to the Ulster County Garden Club (virtual) •March 26th White Feather Farm came for a tour •April 7th Spring Cleaning Seminar •April 14th Panelist in session "Ask the Experts:Outreach in Your Community" at the NYS Organics Summit •April 14th Recycle Right presentation for the Highland Rotary Club •April 16th provided a tour to the Germantown Climate Smart Communities Waste Management Task Force •April 22nd Recycle Right Seminar in collaboration with Highland Library •April 28th Intro to Home Composting Seminar hosted by the Recycling Outreach Team held virtually •April 16th Germantown Climate Smart Communities Waste Management Task Force •April 30th Tour of various interested residents •May 1st Compost Bin and Rain Barrel Sale-literature and kitchen caddies were supplied to every resident. Staff was available to answer questions. •May 4th Director of Sustainability was a panelist for the The Story of Plastics Panel hosted by New Paltz Climate Smart Task Force •May 5th Using Compost in the Garden seminar hosted by the Recycling Outreach Team held virtually •May 6th Tour of various interested candidates of the Saugerties Town Board, Ulster County Legislature •May 14th Tour for interested residents •May 25th Youth Composting Program at the WrapAround Services of the Hudson Valley •May 26th Tour for interested residents •June 2nd Composting presentation for 'Eat Well Kingston' •June 2nd Composting presentation for Woodstock Environmental •June 23rd Tour for interested residents •July 9th-tour provided to Woodstock Bring Your Own •July 19th tour provided to Barton & Loguidice, Saugerties Town Planner & Saugerties Zoning Committee •July 20th tour provided to the Ulster County Garden Club •August 18th tour for prospective Recycling Oversight Committee member •September 16th tour for 2 residents and their children •October 1st tour for Maple Ridge School (14 children, 5 adults) •October 14th tour for Bard College students

		<ul style="list-style-type: none"> •October 13th tour for Ulster County Department of Environment •October 26th tour for SUNY Ulster faculty member regarding Spring Semester video project
<i>Actively engage the community to be involved with recycling and waste programs</i>	COMPLETED	<ul style="list-style-type: none"> •The Recycling Outreach Team strived to hold different workshops (in person and virtual) throughout the year to connect with businesses, schools, MRDCs and residents. •UCRRA's website has a lot of resources including a waste reduction page, resource page for businesses, landlords and schools. •The Recycling Outreach Team held a Zero Waste Webinar Series of six classes in celebration of Plastic Free July
<i>Targeted outreach and community engagement efforts to local commercial businesses</i>	COMPLETED	<ul style="list-style-type: none"> • In 2021 the Recycling Outreach Team created a new Public Service Announcement for radio advertisements, which ran in the March 2021 radio schedule. The 30 sec PSA promoted the educational, consultation, and technical support services to Ulster County businesses. The recording was also added to the Agency's website. • In May 2021, print news advertising promoted composting services for businesses. • Per 2020 Implementation Notes, the Agency's new website was created with special consideration to find resources and information specific to businesses. • Recycling Outreach Team engaged in targeted approaches to reach local businesses. The Team offered a special webinar "Plastic Free July Business Leadership Summit" on a July 21st 2021 that was geared towards the business community with the goals of educating business managers about how to improve zero waste programs and reduce single use disposable plastic serveware - through case studies and step by step guidance. • The Agency ran a special ad campaign in the Ulster County Chamber of Commerce newsletter July 2021 issue, to raise awareness of the Agency services and to promote the Business Leadership Seminar. • Following the Annual Waste and Recycling Report process, Agency staff mailed educational materials to any business or facility that requested more information about recycling. • Per 2020 Implementation Notes, the Recycling Outreach Team developed new media ""Waste Reduction and Recycling for Businesses, Schools, and Institutions and continued to distribute and promote use of the guidebook.
<i>Maintain communication with commercial businesses regarding grant information, available programs, and resource material</i>	COMPLETED	<ul style="list-style-type: none"> •See comments above. •Additionally, information and resources are available by request. Agency staff is available for free consultation services to offer support services for any local business, organization, or facility interested in programmatic development opportunities.

Waste Export		
<i>Continue to ship MSW and C&D via long haul trailers to Seneca Meadows Landfill (assumed export through 2024)</i>	COMPLETED	Waste exported daily.
Technology Assessment		
<i>Continue to evaluate different and emerging technologies for waste management</i>	COMPLETED	<ul style="list-style-type: none"> • Per Implementation Notes for 2020, Agency staff conducted conference calls with Hughes Energy, Caribou Biofuels, and Green Waste Energy to gather information about these technologies and other long term solid waste disposal opportunities. • In February 2021, the Agency was contacted by a researcher enrolled in a master's program in Industrial Ecology at NTNU in Trondheim, Norway though they are a native of the Hudson Valley/Ulster County area. Through several email communications in the Spring, and also Webex meetings and phone discussions, staff engaged with the researcher doing master thesis work on the hudson valley area and biogas feedstock availability and anaerobic digestion/biogas potential. In June 2021 they presented a project to collaborate on a proposal for the Green Innovative Grant Program (GIGP) to establish a prototype to demonstrate capacity and functionality of a hybrid AD-Pyrolysis unit, with an educational component, in hopes of establishing greater biogas solutions for the region. The researcher was ultimately seeking cosponsorship for the grant project to install these systems across the region, positioned strategically where invasive water chestnut infestations were ecological concerns. While they claimed the units would be turn key solutions, optimizing synergizes of A.D. and pyrolysis, the information presented and the timeline for the grant did not provide the Agency with enough information to commit to the project proposal with greater certainty of its feasibility, outcomes, regulatory controls, etc. The researcher explained that in addition to UCRRA as a possible sponsor for the project, his team identified 9 other potential partnerships including the Beacon TS, Monticello TS, Taylor-Montgomery LLC, Colonie Landfill, Delaware County Waste Department, WeCareDenali Rockland, Westchester WWTP, Wheelabrator Westchester, and Dutchess County RRA) but it was unclear to staff if any of the other communities mentioned had committed to participate at any level.
<i>Ongoing regionalization update and review of nearby counties</i>	COMPLETED	12/01/21 Hudson Valley Regional Council Materials Management Professionals Working Group finally reconvened after several years of not meeting on a regular basis during the pandemic.

II. WASTE AND RECYCLABLES DATA

2.1.1 (2020) 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 300 large waste generators that operate within and outside of the planning unit. All weights presented below are reported as tons.

Figure 17. 2020 Annual Waste & Recycling Report Materials Summary by Category.

MATERIAL	TOTALS	TOTALS	CATEGORY
1. MSW	101387.824	164,047.25	DISPOSAL
2. C&D DEBRIS	58493.51		
3. BIOSOLIDS	4165.92		
4. Single Stream Recyclables	5978.72	19,063.56	RESIDENTIAL & COMMERCIAL RECYCLING
5. Mixed Paper (all grades)	2684.89		
6. Corrugated Cardboard	7789.256		
7. Container glass	895.354		
8. Dual Stream Recyclables (comingled plastic, glass, metal)	1632.545		
9. Beverage Containers (5 cent deposit)	82.79		

10. Film Plastics	61.7	61.70	FILM PLASTIC RECYCLING
11. Electronics (all types)	429.495	429.50	ELECTRONICS RECYCLING
12. Clothing, Shoes, & Textiles	297.78	297.78	TEXTILE RECYCLING
13. Tires	1224.69	1,224.69	TIRE RECYCLING
14. Furniture, Misc. Bulk items (REUSE)	37.2	37.20	REUSE- FURNITURE
15. Wood Pallets (REUSE)	424.19	424.19	REUSE-WOOD PALLETS
16. Fluorescent Lighting	3.3461	1,359.10	MISC. HAZARDOUS WASTES
17. Batteries (specify type)	219.06		
18. Antifreeze	52.18		
19. Motor Oil	352.54		
20. Waste Fuels (specify type)	171.1625		
21. Propane Tanks	0.34		
22. Bulk Liquids (specify type)	36.9825		
23. Pharmaceutical Waste (medications)	0.8		
24. Medical SHARPS (syringes, needles, etc.)	63.105		

25. Contaminated Soil	411.9		
Other Hazardous Wastes	47.68		
26. Bulk metal (residential)	2770.1	7,484.43	SCRAP METAL RECYCLING
27. Ferrous metal	3709.39		
28. Nonferrous metal	973.45		
29. Freon appliances (air conditioners, refrigerators, etc.)	31.49		
30. Food Scraps (COMPOSTING)	6589.202	18,011.16	ORGANICS RECYCLING
31. Food Donations	612.08		
32. Fats, Oils, Grease	448.3875		
33. Yard Wastes (Brush, Branches, Trees, Stumps)	6279.886		
34. Wood Pallets (for composting)	2818.31		
35. Leaves/Grass	626.87		
36. Animal Manure	554.2		
Other Organics	82.22		
37. Compost Produced (cy or tons)	7625		

38. Brick, Concrete, Masonry Materials (specify type)	12317.74	14,455.14	C & D RECYCLING & RECOVERY
39. Plaster, drywall, non-asbestos insulation, etc.	0		
40. Clean Uncontaminated Soil & Rock	19.7		
Other C&D Recycling	2117.7		
41. Other (specify type)	35.556	50.23	OTHER
42. Other (specify type)	2.85		
43. Other (specify type)	9.38		
44. Other (specify type)	0.04		
45. Other (specify type)	2.4		

2.1.2 (2020) Waste & Recyclables Graphs Summary

Figure 18. 2020 Annual Waste & Recycling Report Graph of Regulated Recyclable Materials by Category

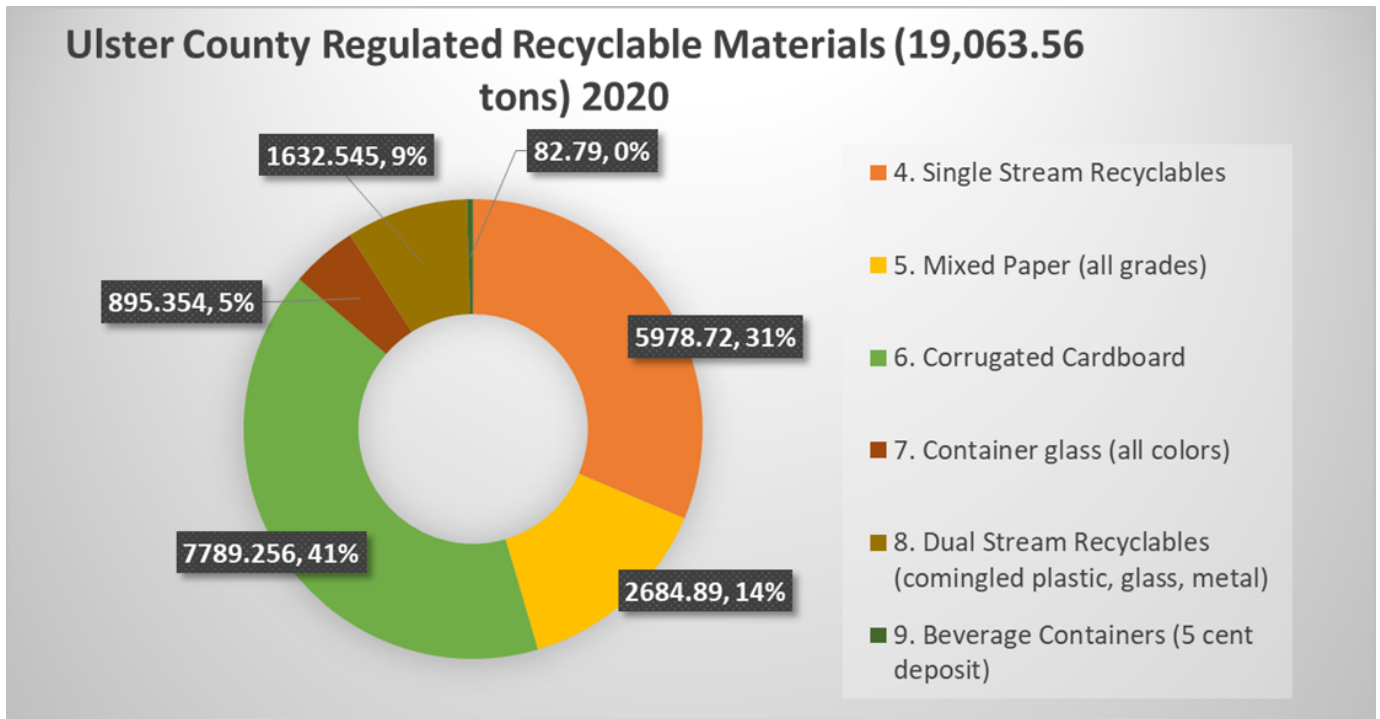


Figure 19. 2020 Annual Waste & Recycling Report Graph of Organics Recovery Materials by Category

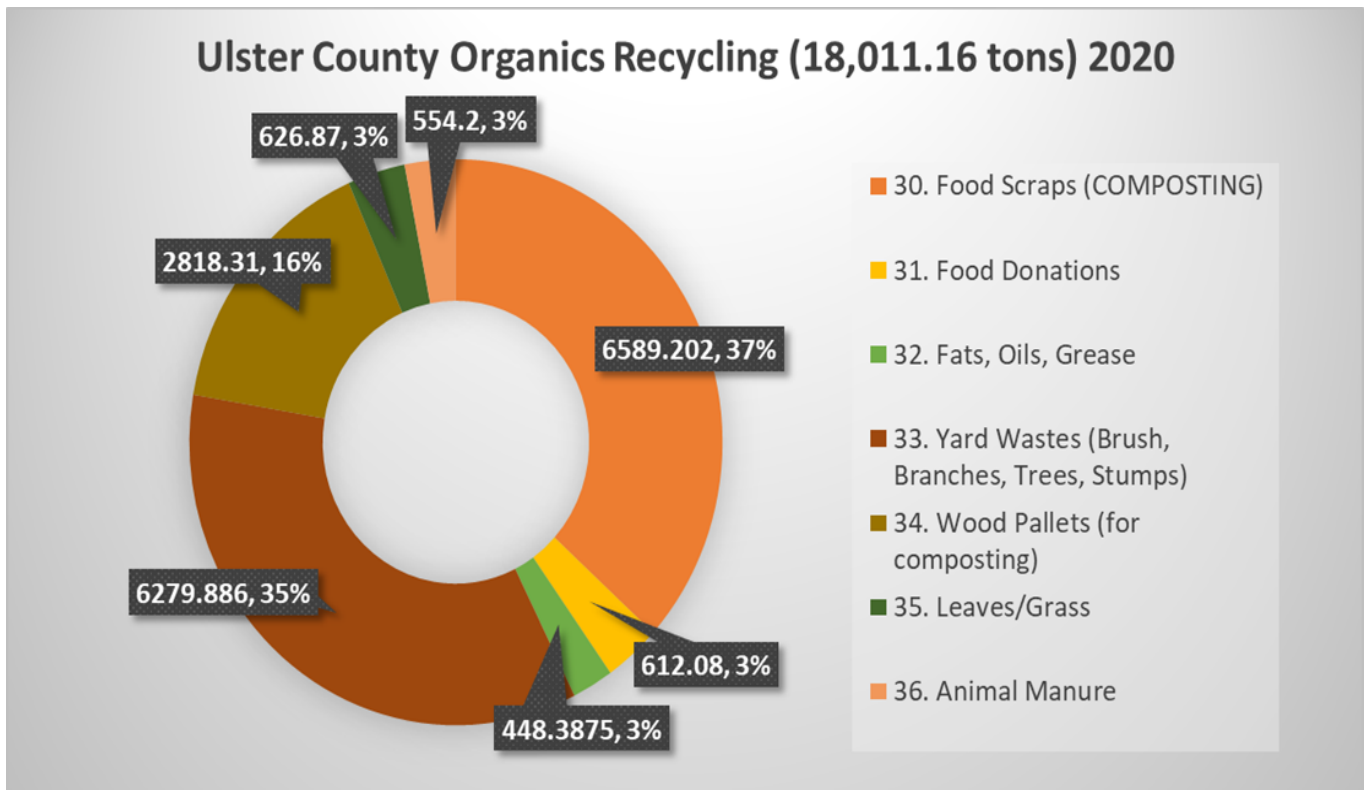
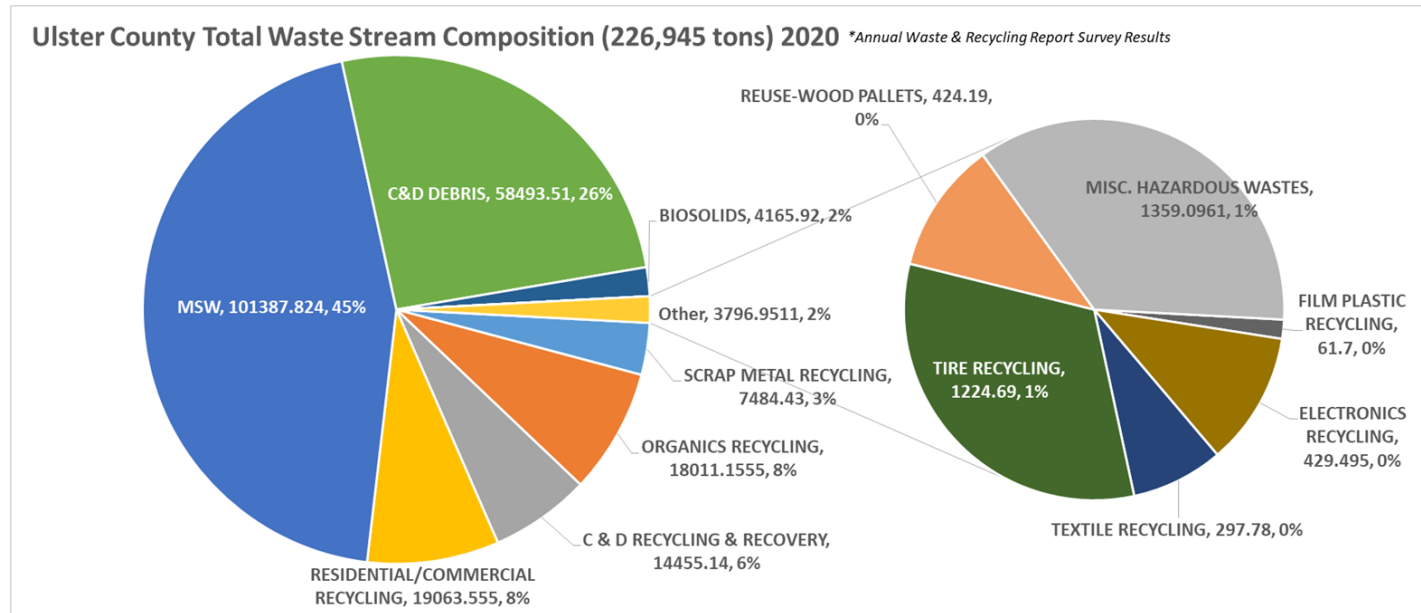


Figure 20. 2020 Annual Waste & Recycling Report Graph of Total Waste Stream by Category



2.1.3 (2020) Waste and Recyclables Summary by Final Disposal and Recycling Destinations

List the names and locations of all known facilities that accepted waste or recyclables from the planning unit during this period. For each facility, list the quantity and the type of wastes and recyclables sent to the facility. The type of waste includes: known MSW, C&D, industrial waste, and biosolid streams. Recyclables must include separate categories for various components separately.

The summary presented below represents survey results collected through the 2020 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 21. 2020 Annual Waste & Recycling Report Summary by Category with Final Disposal Destination Detail

Antifreeze

Clean Harbors, 581 Milliken Dr, Hebron, OH 43025

1.07

Safety Kleen, 17 Green Mountain Dr, Cohoes, NY 12047

1.67

Advanced Oil Recovery, 117 Yellow Wood Dr, Milford, PA 18337

0.03

Enviro Waste Oil, 279 US-6, Mahopac, NY 10541

18

Solvents and Petroleum Services, 1405 Brewerton Rd, Syracuse, NY 13208

29.88

Batteries (various types unspecified)

D&D Auto Parts, 716 NY-208, Gardiner, NY 12525

0.84

Inmetco Elwood, 1 Inmetco Dr, Ellwood City, PA 16117

0.022

M&G Core Recovery Guilderland NY

0.6

ALDI, 767-795 E Chester St, Kingston, NY 12401 (backhauled to Distribution Centers)

0.8

Battery Solutions, 4930 Holtz Dr, Wixom, MI 48393

0.01

Call2Recycle, 1000 Parkwood Circle, Ste 200, Atlanta, GA 30339

0.51

Clarios, 0 Patriot Dr, Middletown, DE 19709

35

E Waste+, 7318 Victor Mendon Rd, Victor, NY 14564

0.87

East Penn Manufacturing, 102 Deka Rd, Lyons, PA 19536

62

Nathan H Kelman Inc., 41 Euclid St, Cohoes, NY 12047

37

NLR Inc., 256 Main St B, East Windsor, CT 06088

0.198

Raw Materials, 812 E Ferry St, Buffalo, NY 14211

0.63

RecyclePak, W6490B Specialty Drive, Greenville, WI 54942

0.001

Beverage Containers (GLASS) – Regulated Recyclables

Beer World, 1221 Ulster Ave, Kingston, NY 12401

62.5

Price Chopper Supermarkets, 138 Ulster Ave, Saugerties, NY 12477 (backhauled to Distribution Centers)

17

Van Loans, 327 Broadway, Port Ewen, NY 12466

0.5

Beverage Containers (METAL) – Regulated Recyclables*Beer World, 1221 Ulster Ave, Kingston, NY 12401*

6.9

SIMS Metal Management 401 Mill Road Linden Ave Ext, Jersey City NJ**40.13****Beverage Containers (PLASTIC) – Regulated Recyclables***Beer World, 1221 Ulster Ave, Kingston, NY 12401*

6.2

Van Loans, 327 Broadway, Port Ewen, NY 12466

0.2

Beverage Containers (MIXED) – Regulated Recyclables*Craft Guild Distributors, 12 S Putt Corners Rd #1602, New Paltz, NY 12561*

4.24

Dutchess Beer Distributors, 36 Kieffer Ln, Kingston, NY 12401

15.9

Gasko & Meyer, 6636 NY-52, Lake Huntington, NY 12752

4.24

GDB International Inc., 1 Home News Row, New Brunswick, NJ 08901

32.235

Manhattan Beer Distributors, 20 Dunnigan Dr, Suffern, NY 10901

16

Oak Beverages Inc., 44 High St, West Nyack, NY 10994

2.12

TOMRA, Wendt Corporation, 2555 Walden Avenue, Buffalo, NY 14225-4737

1.67

Clynk 202D Scotia Glenville IP Scotia NY 12065**7.22***Price Chopper Supermarkets, 138 Ulster Ave, Saugerties, NY 12477 (backhauled to Distribution Centers)*

13

Biosolids Disposal*A & M Composting, 2022 Mountain Rd, Manheim, PA 17545*

77.5

Albany County Landfill, 525 Rapp Rd, Albany, NY 12205

333

Chemung County Landfill, 220 Avenue B, Williston VT 05495**3,478***Earth Care, 80 Dennings Ave, Beacon, NY 12508*

236

Bulk Scrap Metal (unspecified)

Baroni Scrap Metal, 20 Van Kleeck Dr, Poughkeepsie, NY 12601
3173.36

Ben Weitzman, 6 W Main St, Owego, NY 13827
40

Calvetta, 5650 Cauterskill Rd, Catskill, NY 12414
385

Cellmark Recycling, 141 Sheridan Dr, Naugatuck, CT 06770
1.44

G&S Motor Equip Kearny NJ, Baroni Recycling, TCI of NY LLC Coeymans NY
35.8

George Apkin Double Wing
520

Home Depot Store, 1122 Ulster Ave #1227, Kingston, NY 12401
12.64

Mobile Metals, 16 Broadway, Kaumeonga Lake, NY 12749
3.2

Nathan H Kelman Inc., 41 Euclid St, Cohoes, NY 12047
569

Prime Materials Recovery, 99 E River Dr, East Hartford, CT 06108
323

Rensselaer Steel and Iron Rensselaer NY
1565

SIMS Metal Management 401 Mill Road Linden Ave Ext, Jersey City NJ
1180

Target, 1300 Ulster Ave, Kingston, NY 12401-1501
7.29

Weitsman, 1 Recycle Dr, Owego, NY 13827
28.84

Construction & Demolition Debris (disposal)

Alliance Sanitary Landfill, 398 S Keyser Ave, Taylor, PA 18517; Chemung Landfill, 1690 Lake St, Elmira, NY 14901, Keystone Sanitary Landfill, 249 Dunham Dr, Dunmore, PA 18512

3225.28

Chemung County Landfill, 488 County Rd 60, Lowman, NY 14861
12108

Fairless Landfill, 1000 Bordentown Rd, Morrisville, PA 19067
67.5

Greene County Solid Waste Mgmt PO BOX 485 Catskill NY 12414
84.84

Greene County Solid Waste Mgmt PO BOX 485 Catskill NY 12414
100

Orange County Transfer Station, 21 Training Center Ln, New Hampton, NY 10958
4.56

Sterling Recycling 99 Sterling Mine Road Slootsburg NY 10974
37.73

Sullivan County 100 North St Monticello NY 12701
180.08

Waste Management, 264 Old Flatbush Rd, Kingston, NY 12401
2485.3

**Seneca Meadows Landfill 1786 Salomon Road Waterloo NY 13165
38184**

Construction & Demolition Debris (recycling concrete, asphalt, etc.)

Argenio Bros Inc., 2 Argenio Dr, New Windsor, NY 12553
111.8

Argenio Bros Inc., 2 Argenio Dr, New Windsor, NY 12553
154.8

Callanan and Nannini Quarry Products, 276 Clove Rd, Salisbury Mills, NY 12577
23.06

PROFEX, 264 N Plank Rd, Newburgh, NY 12550
1403

Ray's Roll Offs Mountain Valley Fuel, Wood & Recycling
16.2

Rec Crushing Tech
1933.71

Taylor Montgomery, 350 Neelytown Rd, Montgomery, NY 12549
971.98

**Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY
881 (rubble, millings, dirt)**

CFC Refrigerant

Interstate Refrigerant, 131 Morse St, Foxborough, MA 02035
0.54

**Interstate Refrigerant, 131 Morse St, Foxborough, MA 02035
5.4**

IRRI, PO BOX 517, FOXBORO, MASSACHUSETTS 02035
0.54

Corrugated Cardboard – Regulated Recyclables

Hannaford Stores (Backhauled by Fulton Lewis)
681.49

ALDI, 767-795 E Chester St, Kingston, NY 12401 (backhauled to Distribution Centers)
159.83

Cascades Tissue Group, 510 S Main St, Mechanicville, NY 12118

1948.27

Evergreen Disposal, 465 Ross Ruland Rd, South Cairo, NY 12482

3.08

J C Paper, 57 Fulton St, Poughkeepsie, NY 12601

38.8

Metro Retail Recycling, 384 Lee Rd, Rochester, NY 14606

50

N&V International, 40 Ramland Rd # 210, Orangeburg, NY 10962

1175

Power Pallet Recycling, 4715 NY-30, Amsterdam, NY 12010

4.5

Price Chopper Supermarkets, 138 Ulster Ave, Saugerties, NY 12477 (backhauled to Distribution Centers)

181

Raymour & Flannigan, 401 Frank Sottile Blvd, Kingston, NY 12401 (Backhauled to Distribution Center)

1

Republic Services, 508 Fishkill Ave, Beacon, NY 12508

16.17

Staples, 1399 Ulster Ave, Kingston, NY 12401 (Backhauled to Distribution Center)

10.2

Suburban Carting 566 North Road Briarcliff Manor, NY 10591

1,106.64

Target, 1300 Ulster Ave, Kingston, NY 12401-1501 (Backhauled to Distribution Center)

321.48

The Yorkshire Group 150 Rivers Edge Unit 342 Medford MA 02155

1,346.62

Waste Management, 264 Old Flatbush Rd, Kingston, NY 12401

97.68

Westrock, 1775 County Services Pkwy, Marietta, GA 30008

125.77

Electronics Recycling

Clean Earth, 15 Jacobus Ave, Kearny, NJ 07032

0.003

Computer Systems Asset, 37 Industrial Park Cir, Rochester, NY 14624 R

7.7

CRTC Fort Worth TX

0.78

E Waste+, 7318 Victor Mendon Rd, Victor, NY 14564

61.27

Electronics Recycling International Inc., sent to ERI facilities 3100 Reeves Road, Plainfield IN 46168, ERI 89 R Cross Street Holliston MA01746, and ERI510 Ryerson Road Suite 2 Lincoln Park NJ 07035

115

ERI, 89 Cross St, Holliston, MA 01746

95.302

Greenchip Recycling, 540 Kingsland Ave, Brooklyn, NY 11222

2.68

Veolia Tech Solutions, 90 Pleasant St, West Bridgewater, MA 02379

2

Film Plastics Recycling

Kohls Store #988, 800 Miron Ln, Kingston, NY 12401

1.8

Target, 1300 Ulster Ave, Kingston, NY 12401-1501 (Backhauled to Distribution Center)

8.38

TREX Company, 160 Exeter Drive, Winchester, VA 22603-8605

50.17

Fluorescent Lighting

ALDI, 767-795 E Chester St, Kingston, NY 12401 (backhauled to Distribution Centers)

0.0013

Bulb Cycle, 7770 Regents Road, #113, Suite #547, San Diego, CA 92122

0.1145

Clean Earth, 15 Jacobus Ave, Kearny, NJ 07032

0.363

Clean Harbors, LLC., 309 American Circle, El Dorado, AR 71730

0.17

Clean Harbors, 32 Bask Rd, Glenmont, NY 12077

0.55

G2 Revolution, 14601 Co Rd 212, Findlay, OH 45840

0.01

NLR Inc., 256 Main St B, East Windsor, CT 06088

0.6188

SAMR, 1950 Rutgers University Blvd, Lakewood, NJ 08701

0.1

Veolia Tech Solutions, 90 Pleasant St, West Bridgewater, MA 02379

1.6

Veolia Tech Solutions, 90 Pleasant St, West Bridgewater, MA 02379

0.42

Clean Harbors facilities in; El Dorado, AR (309 American Rd, El Dorado, AR 71730);

Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)

1.023

**Clean Harbors facilities in; El Dorado, AR (309 American Rd, El Dorado, AR 71730);
Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)**

0.585**Glass containers (source-separated) – Regulated Recyclables**

Greene County Solid Waste Mgmt PO BOX 485 Catskill NY 12414

310.05

Pace Glass 1 Caven Point Ave Jersey City NJ

290.26

Republic Services 237 Dupont Ave Newburgh NY 12551

112.6**Medical SHARPS**

Approved Storage & Waste, 110 Edison Ave, Mt Vernon, NY 10550

0.67

Approved Storage, 750 South Ave, Bridgeport, CT 06604

0.015

BioServ Inc., 10 Gramar Ave, Prospect, CT 06712

0.16

Broome County Landfill, 286 Knapp Rd, Binghamton, NY 13905

57.65

Daniel's Health, 925 Conroy Pl, Easton, PA 18040

2.5

SHARPS, 3246 Lincoln Hwy E, Paradise, PA 17562

2.03

Metal Containers (source-separated) – Regulated Recyclables

Ekman 1608 Rt 88 West Brick NJ 08724

101.74

SIMS Metal Management 401 Mill Road Linden Ave Ext, Jersey City NJ

136.71**Mixed Paper – Regulated Recyclables**

American Paper, 566 N State Rd, Briarcliff Manor, NY 10510

84.33

Iron Mountain, 100 Harbor Drive, Jersey City, NJ 07305

229.6

Legal Shred, 1014 Grand Blvd, Deer Park, NY 11729

16.1

Northeast Data Destruction, 619 NY-28, Kingston, NY 12401

1.5

Raymour & Flanigan, 401 Frank Sottile Blvd, Kingston, NY 12401 (Backhauled)

0.5

Recycle City P.O. BOX 4762 Clifton NJ 07015**213.34**

RECYCLING CENTRAL LLC

0.66

Republic Services 237 Dupont Ave Newburgh NY 12551

175.06

Republic Services, 508 Fishkill Ave, Beacon, NY 12508**206.25**

SecureScan, 1060 Broadway, Albany, NY 12204

3.98

Staples, 1399 Ulster Ave, Kingston, NY 12401 (Backhauled to Distribution Center)

5.4

Suburban Carting 566 North Road Briarcliff Manor, NY 10591**753.23**

Target, 1300 Ulster Ave, Kingston, NY 12401-1501 (Backhauled to Distribution Center)

0.93

Recycle City P.O. BOX 4762 Clifton NJ 07015**157.92****Republic Services 237 Dupont Ave Newburgh NY 12551****176.28****Suburban Carting 566 North Road Briarcliff Manor, NY 10591****569.58****The Yorkshire Group 150 Rivers Edge Unit 342 Medford MA 02155****88.86****Motor Oil**

Safety Kleen Systems, 56 Brownstone Ave, Portland, CT 06480

20.12

Advanced Oil Recovery, 117 Yellow Wood Dr, Milford, PA 18337

18.83

Clean Harbors, 3300 Cummings Rd, Chattanooga, TN 37419

0.23

Eagle Diesel, 611 Sawkill Rd, Kingston, NY 12401

0.92

Enviro Waste Oil, 279 US-6, Mahopac, NY 10541

150.2

JOCOSA LLC, 1116 RIVER ROAD, NEW WINDSOR, NEW YORK, 12553

96

Lorco Petroleum Services, 450 S Front St, Elizabeth, NJ 07202

3.85

safety Kleen, 17 Green Mountain Dr, Cohoes, NY 12047

44.59

Solvents and Petroleum Services, 1405 Brewerton Rd, Syracuse, NY 13208

25.13

spring grove RR in OH,

0.1

Tradebe T&R Northeast, 50 Cross St, Bridgeport, CT 06610

16.2

Tradebe T&R Northeast, 50 Cross St, Bridgeport, CT 06610

1

VAZCO Reclaiming Services, 96 Steves Ln, Gardiner, NY 12525

0.36

West Central Environmental, P. O. Box 83, Rensselaer, NY 12144

0.2

Clean Harbors facilities in; Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)

0.04

Municipal Solid Waste

Casella Waste Systems, 71 Fuller Rd, Albany, NY 12205

387.854

Green Co Solid Waste Management, 181 NY-385, Catskill, NY 12414

5.61

Orange County Transfer Station, 21 Training Center Ln, New Hampton, NY 10958

63.73

Recommunity, 508 Fishkill Ave., Beacon NY 12508

6.63

Seneca Meadows Landfill 1786 Salomon Road Waterloo NY 13165

100,564

Oil Filters

Enviro Waste Oil, 279 US-6, Mahopac, NY 10541

22.4

Planet Earth Recycling, 149 Bowes Rd, Concord, ON L4K 1H3 Canada

0.9

Safety Kleen, 167 Mill St, Cranston, RI 02905

4.5

SafetyKleen, 50 Snake Hill Rd, West Nyack, NY 10994

3.52

Organics (animal carcasses composted)

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY

13.62

Organics (animal feeding operations)

MMT Cattle Inc., 1942 Hickory Hill Rd, Fonda, NY 12068
68.6

Organics (clean wood)

**Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY
105**

**Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY
120.95**

Organics (fats, oils, grease rendering)

Albany City Sewage Treatment Plant, 1 Canal Rd S, Albany, NY 12204
33.6

Blue Diamond Septic, 3575 Albany Road, Selkirk NY 12158
74.86

Buffalo Biodiesel, 225 Sawyer Ave, Tonawanda, NY 14150
0.103

Dar Pro Solutions, 825 Wilson Ave, Newark, NJ 07105
1.05

Darling Ingredients Inc., 825 Wilson Ave., Newark NJ 07105
122.8

Darling Ingredients Inc., 825 Wilson Ave., Newark NJ 07105
21.748

Dawes Septic & Repair, 1993 NY-32, Modena, NY 12548
1.96

JBS Mopac, 249 Allentown Rd, Souderton, PA 18964
176.9

Restaurant Technologies, 2250 Pilot Knob Rd, Mendota Heights, MN 55120
15.41

Organics (food reuse/food donations)

Feeding America
314.47

Misc. Food donation centers
28.33

Regional Foodbank NENY, 965 Albany Shaker Rd, Latham, NY 12110
244.08

Target, 1300 Ulster Ave, Kingston, NY 12401-1501
21.35

Organics (manure composted)

Community Compost Co., 5941 United States Rte 209, Kerhonkson, NY 12446
367

Organics Recycling (source separated organics for Composting or Anerobic Digestion)

Agricycle Energy, 95 Pleasant Hill Rd Ste. G, Scarborough, ME 04074

548.73

Community Compost Co., 5941 United States Rte 209, Kerhonkson, NY 12446

310

Darling Ingredients Inc., 825 Wilson Ave., Newark NJ 07105

52.7

Dean Ford & Sons Dairy, 284 Hortons Road, Westtown NY 10998

5.27

Greenway Environmental, 205 Hurds Road, Clintondale, NY 12515

346.6

MMT Cattle Inc., 1942 Hickory Hill Rd, Fonda, NY 12068

200.95

Smiley Bros Inc. Mohonk Mtn House, 1000 Mountain Rest Rd, New Paltz, NY 12561

75

Target, 1300 Ulster Ave, Kingston, NY 12401-1501

2.25

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY

4669.59

Organics (woodchips)

Community Compost Co., 5941 United States Rte 209, Kerhonkson, NY 12446

98

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY

1750.31

Organics (municipal yard wastes, trees, etc.)

City of Kingston

1200

Community Compost Co., 5941 United States Rte 209, Kerhonkson, NY 12446

32

Ewolds Logging, 3416 State Route 52 Pine Bush, NY, 12566-5444

20

misc. onsite mgmt/composting by businesses

322.11

Onsite composting by various MRDCs

672.77

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY

755.93

Greenway Environmental, 205 Hurds Road, Clintondale, NY 12515

4242

Taylor Montgomery, 350 Neelytown Rd, Montgomery, NY 12549

386.54

Other Wastes (miscellaneous or unclassified)

miscellaneous backhauled to retail distribution centers

5.88 Other - (Polystyrene foam, giftcards, beauty products, inkjet cartridges)

Colonie Landfill, 1319 Loudon Rd, Cohoes, NY 12047

411.9 Other - contaminated soil

Greenchip Recycling, 540 Kingsland Ave, Brooklyn, NY 11222

0.37 Other - lighting ballast & HID transformers

NLR Inc., 256 Main St B, East Windsor, CT 06088

0.226 Other - non pcb lighting ballasts

TCl of NY LLC, 99 Coeymans Industrial Park Ln, Ravena, NY 12143

35.2 Other - non PCB transformer oil

Luzon Oil Co Inc., 1246 Glen Wild Rd, Woodridge, NY 12789

170.9 other - oil/waste contaminated water

Enviro Waste Oil, 279 US-6, Mahopac, NY 10541

25 Other - oily water non regulated

TCl of Alabama, 101 Parkway E, Pell City, AL 35125

1.7 Other - PCB contaminated substance

TCl of Alabama, 101 Parkway E, Pell City, AL 35125

0.2 Other - PCB oil

West Central Environmental, P. O. Box 83, Rensselaer, NY 12144

>1 Other - powder for coating light fixtures

NY Crushing & Recycling, 728 DeWitt Lake Road, Kingston NY 12401

19.7 Other - soil & rock

Safety Kleen Linden NJ (1200 Sylvan St, Linden, NJ 07036) and Cohoes NY (17 Green Mountain Dr, Cohoes, NY 12047)

2.9 Other - spent mineral solvents

West Central Environmental, P. O. Box 83, Rensselaer, NY 12144

0.18 Other - stripped paint filters

Miller Environmental, 532 State Fair Blvd, Syracuse, NY 13204

0.0625 Other- non hazardous liquids

Enviro Waste Oil, 279 US-6, Mahopac, NY 10541

2.85 Other- non hazardous solids non regulated

Veolia, 53 State St #14, Boston, MA 02109

0.0625 Other-waste fuel

Pharmaceutical Waste

DC RRA, 96 Sand Dock Rd, Poughkeepsie, NY 12601

0.92

Plastic containers – Regulated Recyclables

Ekman 1608 Rt 88 West Brick NJ 08724

129.36

The Conti Group 1661 46th St Brooklyn NY 11204

20.63

Ekman 1608 Rt 88 West Brick NJ 08724

41.64

Haycore 3144 Gregoire Rd Russell, ON Canada

65.47

The Conti Group 1661 46th St Brooklyn NY 11204

84.43

Casella Recycling 1770 RT 9 Suite 304 Clifton Park NY

19.97

EFS Plastic 5788 ine84 Listowel ON Canada

59.69

Reuse (misc.)

Good 360, 675 N Washington St, Alexandria, VA 22314

11.7 (furniture)

ALDI, 767-795 E Chester St, Kingston, NY 12401 (backhauled to Distribution Centers)

117 (wood pallet exchange program)

Home Depot Store, 1122 Ulster Ave #1227, Kingston, NY 12401

0.7 (wood pallet exchange program)

Power Pallet Recycling, 4715 NY-30, Amsterdam, NY 12010

14.5 (wood pallet exchange program)

Staples, 1399 Ulster Ave., Kingston NY 12401

6.2 (wood pallet exchange program)

Target, 1300 Ulster Ave, Kingston, NY 12401-1501

159 (wood pallet exchange program)

Walmart Store 6201, 601 Frank Sottile Blvd, Kingston, NY 12401

100.25 (wood pallet exchange program)

Single Stream Recyclables (SSR) – Regulated Recyclables

Evergreen Disposal, 465 Ross Ruland Rd, South Cairo, NY 12482

2532.63

Orange County Transfer Station, 21 Training Center Ln, New Hampton, NY 10958

98.44

Republic Services, 508 Fishkill Ave, Beacon, NY 12508

151.46

Twin Bridges Recycling, 1626 U.S. 9, Halfmoon, NY 12065

264.8

Tylers Dismanting Recycling, 66 Tylers Ln, Cottekill, NY 12419

228.65

Waste Management, 264 Old Flatbush Rd, Kingston, NY 12401

2701.7

Textile Recycling**Firemens Association of Ulster County****8***Rock Solid Provisions Catskill NY to various vendors*

183

St. Pauly Textile Inc., 1067 Gateway Dr, Farmington, NY 14425

30.86

Textile Recovery Service, 1615 9th Ave., Ste. 203, Bohemia NY 11716

43

Ulster County ASPCA, 20 Wiedy Dr, Kingston, NY 12401

0.45

US AGAIN LLC., 18 Sargent Pl, Mt Vernon, NY 10550

27.5

Tires*Ben Weitzman, 6 W Main St, Owego, NY 13827*

0.3

Bobs Tire, 55 Brook St, New Bedford, MA 02746

6.31

Casings Tires Inc., 169 Maple Ave, Catskill, NY 12414

908.77

Empire Tires of Edgewater, 1414 Norwich Rd, Plainfield, CT 06374

62.93

Green Co Solid Waste Management, 181 NY-385, Catskill, NY 12414

4

Lakin Tire, 220 Frontage Rd, West Haven, CT 06516

160.95

Service Tire Truck Center, 1166 Rte 9W, Marlboro, NY 12542

2.8

SGS, 2315 Whirlpool St, Niagara Falls, NY 14305

72.27

2.2.1 (2021) 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 300 large waste generators that operate within and outside of the planning unit. All weights presented below are reported as tons.

Figure 22. 2021 Annual Waste & Recycling Report Summary by Category

MATERIAL	TOTALS	TONS	CATEGORY
1. MSW	107,071.50	167,781.75	LANDFILL DISPOSAL
2. C&D DEBRIS	60,710.25		
4. Single Stream Recyclables	6830.17	20,518.91	RESIDENTIAL & COMMERCIAL REGULATED RECYCLING
5. Mixed Paper (all grades)	2415.643		
6. Corrugated Cardboard	7890.256		
7. Container glass (all colors)	494.34		
8. Dual Stream Recyclables (comingled plastic, glass, metal)	2149.5282		
9. Beverage Containers (5 cent deposit)	738.971		
10. Film Plastics	57.01	57.01	FILM PLASTIC RECYCLING
11. Electronics (all types)	382.78	382.78	ELECTRONICS RECYCLING
12. Clothing, Shoes, & Textiles	391.739	391.74	TEXTILE RECYCLING
13. Tires	1640.543	1,640.54	TIRE RECYCLING

14. Furniture, Misc. Bulk items (REUSE)	54.12	310.21	MISC. REUSE & DONATION
15. Wood Pallets (REUSE)	250.506		
45. Other (specify type)	5.58		
16. Fluorescent Lighting	24.1914	1,147.10	MISC. HAZARDOUS WASTES (RECYCLING OR SAFE DISPOSAL PROGRAMS)
17. Batteries (specify type)	247.669		
18. Antifreeze	34.68		
19. Motor Oil	239.935		
20. Oil Filters	35.325		
21. Waste Fuels (specify type)	110.533		
22. Propane Tanks	14.284		
23. Bulk Liquids (specify type)	19.865		
26. Contaminated Soil	376.16		
43. Other (specify type)	24.394		
44. Other (specify type)	7.992		
45. Other (specify type)	12.07		
24. Pharmaceutical Waste (medications)	0.617		
25. Medical SHARPS (syringes, needles, etc.)	100.57		

27. Bulk metal (residential)	8925.105	26,392.49	SCRAP METAL RECYCLING
28. Ferrous metal	15461.545		
29. Nonferrous metal	1964.3558		
30. Freon appliances (air conditioners, refrigerators, etc.)	41.485		
31. Food Scraps (COMPOSTING)	4730.236	18,180.90	ORGANICS RECYCLING
32. Food Scraps (ANIMAL FEED)	367.87		
33. Food Donations	581.082		
34. Fats, Oils, Grease	2483.24		
35. Yard Wastes (Brush, Branches, Trees, Stumps)	5427.15		
36. Wood Pallets (for composting)	328.32		
37. Leaves/Grass	496.79		
38. Animal Manure	504		
39. Compost Produced (cy or tons)	4800.5		
3. BIOSOLIDS*	3262.21		
40. Brick, Concrete, Masonry Materials (specify type)	12115.44	12,269.19	C & D RECYCLING & RECOVERY

41. Plaster, drywall, non-asbestos insulation, etc.	120		
42. Clean Uncontaminated Soil & Rock	33.75		

2.2.2 (2021) Waste & Recyclables Graphs Summary

Figure 23. 2021 Annual Waste & Recycling Report Graph of Regulated Recyclable Materials by Category

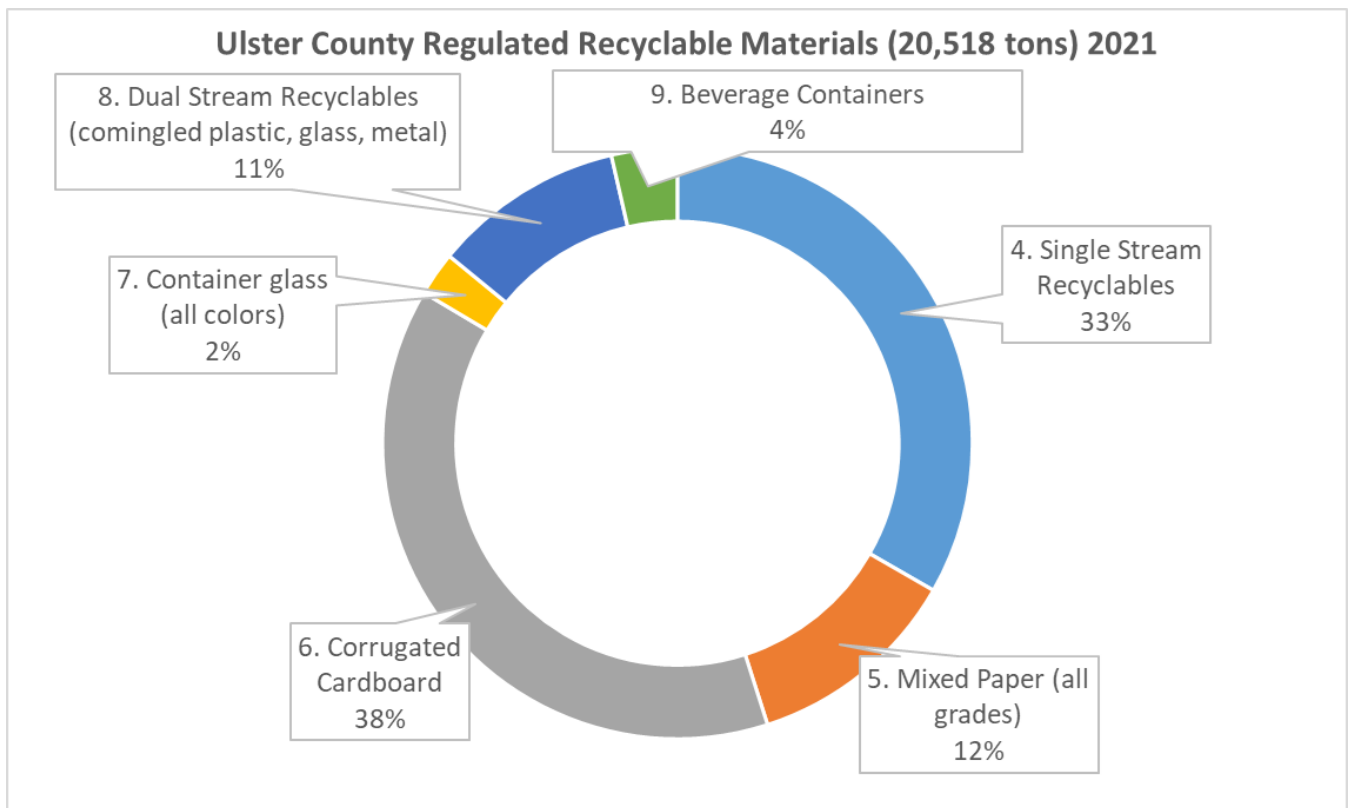


Figure 24. 2021 Annual Waste & Recycling Report Graph of Organics Recovery & Recycling by Category

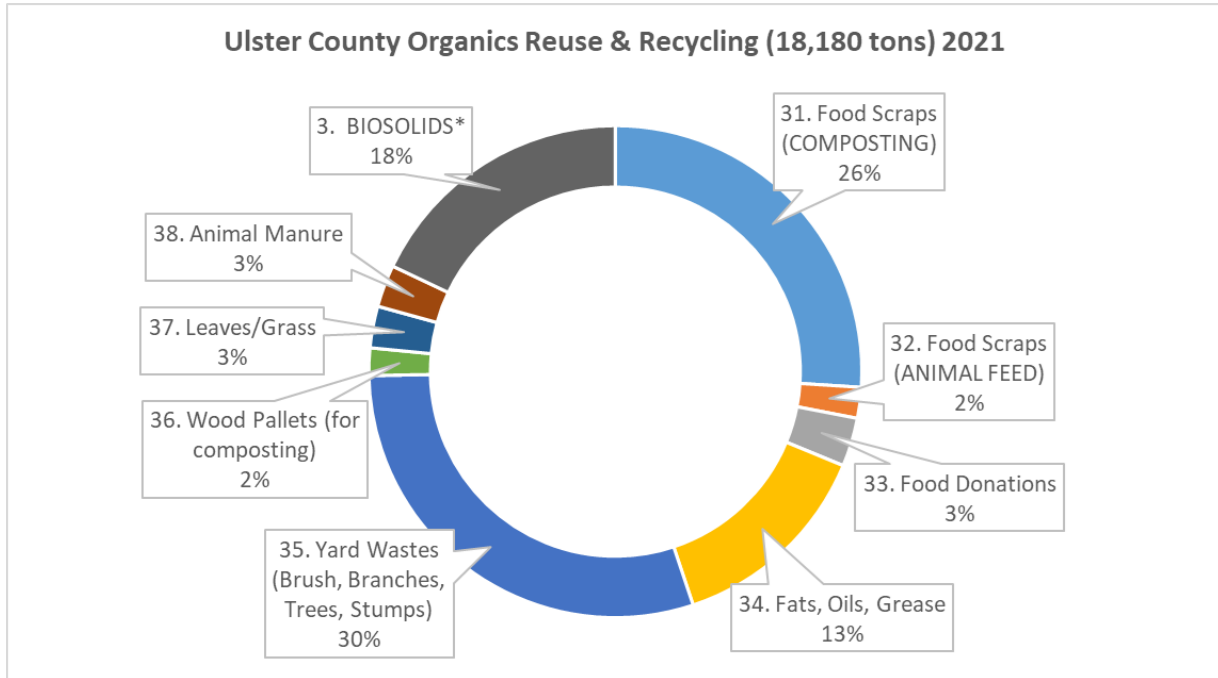
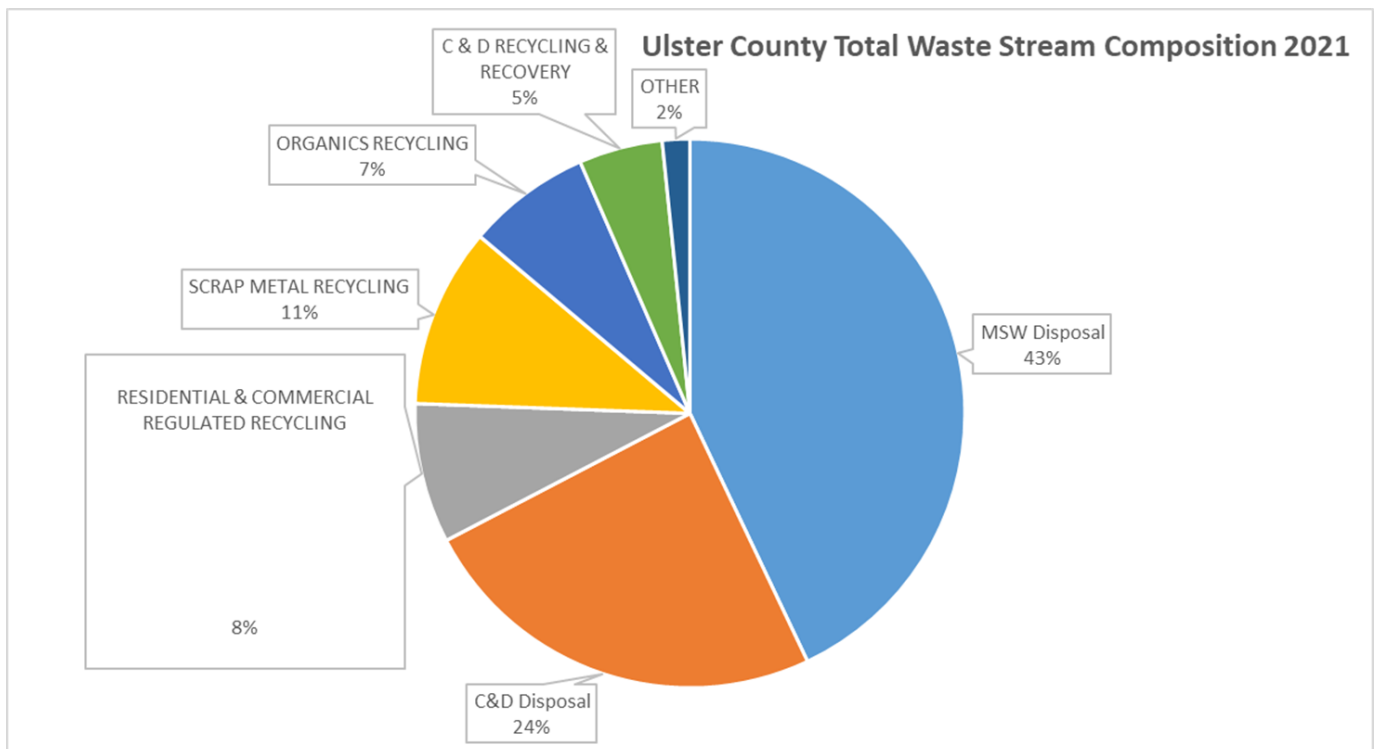


Figure 25. 2020 Annual Waste & Recycling Report Graph of Total Waste Stream by Category



2.2.3 (2021) Waste & Recyclables Summary by Final Disposal & Recycling Destinations

The summary presented below represents survey results collected through the 2021 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 26. 2021 Annual Waste & Recycling Report Summary by Category with Final Disposal Destination Detail

2021 Ulster County Annual Waste & Recycling Report – Destinations Summary

Antifreeze

Advanced Oil Recovery PO BOX 864 Milford PA 18337	2.1
Eagle Diesel 611 Sawkill Rd, Kingston, NY 12401	0.2
EnviroWaste 279 Route 6 Mahopac NY 10541	0.14
EnviroWaste Oil Recovery 279 Route 6 Mahopac NY 10541, and Clean Harbors 581 Milliken Drive SE Hebron OH,43025	11.74
Solvents & Petroleum Services Inc. 1405 Brewerton Rd, Syracuse, NY 13208	18.5
Veolia Environmental Services 1 Eden Lane Flanders NJ 07836	2

Batteries (all types)

Brim Recycle 23 NY 2-11 Cuddlebackville NY 12729	1
Recycle Pak W6490B Specialty Dr Greenville WI 54942	0.03
Clarios 50 Patriot Drive Middletown DE 19709	80
East Penn Manufacturing, 102 Deka Rd, Lyons, PA 19536	38
G2 Revolution 14601 City Rd 212 Findlay OH 45840	0.01

Grainger - Albany Branch #016 35 Corporate Circle Albany, NY 12203-5154

0.32

Inmetco 1 Inmetco Dr Ellwood City PA 16117

0.051

Nathan H Kelman Inc 41 Euclid St Cohoes NY 12047

28

NLR Inc. 250 Main St East Windsor CT 06088

0.178

Rever Smelting & Refining 65 Ballard Rd Middletown NY 10941

31.6

Rips Auto Parts Ulster Ave Saugerties & Bulb Cycle San Diego CA

0.16

RSR Corporation 65 Ballard Rd Middletown NY

66.2

Veolia Environmental Services 1 Eden Lane Flanders NJ 07836

2.2

Beverage Containers (GLASS) Regulated Recycling

Envipco 5436 48th Street Flushing NY 11378

41.16

Envipco 99 Great Hill Rd Nauquatuck CT 06770

7

TOMRA 31 Opus Blvd Schenectady, NY 12306

38

TOMRA Collections Solutions 5923 Loomis Rd Farmington NY 14425

16.3

Green Co Solid Waste Management, 181 NY-385, Catskill, NY 12414

494.34

Beverage Containers (METAL) Regulated Recycling

Envipco 5436 48th Street Flushing NY 11378

97.02

Envipco 99 Great Hill Rd Nauquatuck CT 06770

16.4

TOMRA 31 Opus Blvd Schenectady, NY 12306

13

TOMRA Collections Solutions 5923 Loomis Rd Farmington NY 14425

56.5

Beverage Containers (MIXED) Regulated Recycling

Bottle Depot 12 Biechman Rd Port Ewen

28

Boy Scouts of America, Rip Van Winkle Council 1300 Ulster Ave, Ste 107 Kingston, NY
12401

46.17

Cast Aside to Survive Inc. PO Box 116 Rosendale, NY 12472

1

CLYNK PROGRAM VIA HANNAFORD STORES Scotia Glenville IP Scotia NY 12065

216.88

Craft Guild Distibutors 12 S Putt Corners Rd #1602 New Palts NY 12561

4.4

Dutchess Beer Distributors 36 Kieffer Ln Kingston NY 12401

16.2

Gasko & Meyer 6636 NY-52 Lake Huntinton NY 12752

4.1

Manhattan Beer Distributors 20 Dunningan Drive Suffern NT 10901

16.8

NY Bottle Depot Rt 32 Rosendale NY 12472

5.26

TOMRA 31 Opus Blvd Schenectady, NY 12306

88.231

The Conti Group 1661 46th St Brooklyn NY 11204

20.36

Clynk 202D Scotia Glenville IP Scotia NY 12065

0.22

Bottle Depot PO BOX 142 CIRCLEVILLE NY

0.55

Beverage Containers (PLASTIC) Regulated Recycling

Envipco 5436 48th Street Flushing NY 11378

0.92

Envipco 99 Great Hill Rd Nauqatuck CT 06770

0.6

TOMRA 31 Opus Blvd Schenectady, NY 12306

16

TOMRA Collections Solutions 5923 Loomis Rd Farmington NY 14425

5.9

Biosolids (Disposal)

Albany County Sewage Treatment Plant Menands NY

17.51

C&D (Disposal)

Alliance Sanitary Landfill 398 South Keyser Ave Taylor PA 18517 and Keystone Sanitary

Landfill 249 Dunham Dr Dunmore PA 18512

3494.18

Chemung Landfill 1488 County Rt 60 Lowman NY

12264

Greene Co Solid Waste Management Co 181 NY 385 Catskill NY

83.86

IWS Goshen, 96 Hartley Rd Goshen NY 10926

336.59

IWS Transfer Station of NY 95 Hartley Road Goshen NY

35.93

Kingston Roll Off LLC 715 Abeel Street Kingston NY 12401

27.91

Middletown Carting 83-85 Industrial Place Ext Middletown NY 10940

74.29

Orange County Transfer Station 1 21 Training Center Ln New Hampton NY 10958

2.56

Sterling Carting Inc. 99 Sterling Mine Rd Sloatsburg NY 10974

72.96

Sullivan C&D 100 North Street Monticello NY 12701

507.87

Waste Management of NY LLC 264 Old Flatbush Rd Kingston NY 12401

2152.28

Seneca Meadows Landfill 1786 Saloman Road Waterloo NY 13165**41,657.00****C&D (Recycling/Recovery)**

Argenio Bros Inc. 2 Argenio Dr New Windsor NY 12553

687

SunUp Construction Co 7 Viola Court Wappingers Falls NY 12590

120

Recycling Crushing Technology 27 Commerce Street Poughkeepsie NY 12603
905.5

Taylor Montgomery LLC 350 Neelytown Road Montgomery NY 12549
1712.61

Callahan & Nannini Quarry 276 Clove Rd Salusbury Mills NY 12577,
7.43

Profex 264 N Plank Rd Newburgh NY 12550
1105

Recycle Depot 230 Van Wagner Rd, Poughkeepsie, NY 12603
2878.13

Tetz Asphalt 63 Cemetery Rd, Middletown, NY 10940
9.45

Town of Esopus MRDC 70 Westshore Drive West Park NY 12493
3

Town of Hurley MRDC 1043 Dug Hill Rd West Hurley NY 12491
345

Ulster County Department of Public Works 317 Shamrock Lane Kingston NY 12401
3854

**Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY
918.82**

CFC Refrigerant

Interstate Refrigerant Recovery Inc. P.O. BOX 517 Foxboro MA 02035

7.16

Clean Soil

SunUp Construction Co 7 Viola Court Wappingers Falls NY 12590
33.75

Corrugated Cardboard Regulated Recycling

American Paper 556 N State Rd Briarcliff Manor NY 10510
89.94

Bozzuto's Inc. 275 Schoolhouse Rd Cheshire CT 06410
15.6

Cascades 1845 Emerson St Rochester NY 14606
5.12

Cascades 510 Main St Mechanicville NY 12118

1385.85

Casella Recycling 1770 RT 9 Suite 304 Clifton Park NY

81.666

Hannaford Stores - back hauled to distribution centers by Fulton Lewis

1123

JC Paper Company 57 Fulton St Poughkeepsie NY 12601

984.51

N&V International 40 Ramland Rd Orangeburgh NY 10962

1035

Orange County Landfill 2459 Rt 17M Goshen NY 10924

3.62

Raymour & Flannigan 401 Frank Sottile Blvd Kingston NY 12402 - Backhauled to
Distribution Centers 7248 Morgan Rd Liverpool NY 13088 and 341 Swedeboro Ave
Gibbstown NJ 08027

0.75

Republic Services 508 Fishkill Ave Beacon NY 12508

440.9

Staples Store #0242 Kingston NY -Backhauled to Distribution Center. Recycling Vendor
"Cellmark"

9.1

Sullivan C&D 100 North Street Monticello NY 12701

1.1

Wallkill Correctional Facility 50 McKendrick Rd Wallkill NY 12589

37.99

Westrock 504 Thrasher St. Norcross, GA 30071

289

The Yorkshire Group 150 Rivers Edge Unit 342 Medord MA 02155**1497.94****Suburban Carting 566 North Road Briarcliff Manor, NY 10591****978.35****Dual Stream Recycling (MIXED) Regulated Recycling**

Casella Recycling 1770 RT 9 Suite 304 Clifton Park NY

1.6682

GBD International Inc. 1 Home News Row New Brunswick NJ 08901

37.62

Electronics Recycling

Advanced Recovery Inc. 50 Grafton Ave Newark NJ 07104

0.743

G2 Revolution 14601 City Rd 212 Findlay OH 45840

0.289

"Mike Fuegmann & Co. Ravena NY"

0.79

"E-Green Recycling Management, 140 Corporate Drive, Holtsville, NY.

Sunnking, 4 Owens Rd, Brockport, NY, and Interco Metaltronics Recycling, 10 Fox Industrial Dr, Madison, IL. "

28.95

ERI 510 Ryerson Rd Suite 5 Lincoln Park NJ 07035

104.24

EWASTE+ 7318 Victor Mendon Rd Victor NY 14564

58.76

Midnight Sun NF 734 Franklin Ave Garden City NJ 11530

10

Electronics Recycling International Inc., sent to ERI facilities; 3100 Reeves Road, Plainfield IN 46168, ERI 89 R Cross Street Holliston MA01746, and ERI510 Ryerson Road Suite 2 Lincoln Park NJ 07035
179

Film Plastic

Backhauled to Distribution Centers 7248 Morgan Rd Liverpool NY 13088 abd 341

Swedeboro Ave Gibbstown NJ 08027

0.75

Fulton Lewis (BACKHAULED TO Distribution centers from Hannaford Stores)

39.93

Trex 160 Exeter Drive Winchester, VA 22603

16.33

Fluorescent Lighting

American Lamp Recycling 55 Riverview Dr Marlboro NY 12542

4.79

Bulb Cycle SanDiego CA

16.9

G2 Revolution 14601 City Rd 212 Findlay OH 45840

0.011

NLR Inc. 250 Main St East Windsor CT 06088

0.4584

SAMR 1950 Rutgers University BLVD Lakewood NJ 08701

0.163

Veolia Environmental Services 1 Eden Lane Flanders NJ 07836

0.16

Veolia Tech Solutions 90 Pleasant Street West Bridge MA 02319, American Lamp
Recycling 55 Riverview Dr. Marlboro NY 12542

0.366

**Clean Harbors facilities in; El Dorado, AR (309 American Rd, El Dorado, AR 71730);
Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)**

1.023 (HHW)

**Clean Harbors facilities in; El Dorado, AR (309 American Rd, El Dorado, AR 71730);
Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)**

0.585 (Agency Blub Disposal)

Freon Appliances (SCRAP METAL)

Clarksons Appliance 249 State Route 32 N New Paltz NY 12561

0.125

Midnight Sun NF 734 Franklin Ave Garden City NJ 11530, Weitsman of Albany 300
Smith Blvd Albany NY 1220 1

20

JGS Recycling 392 Hudson River Rd Waterford, NY 12188

0.95

Orange County Transfer Station 1 21 Training Center Ln New Hampton NY 10958

0.19

Medical Waste (Pharmaceuticals)

Dutchess County Resource Recovery Agency 96 Sand Dock Rd, Poughkeepsie, NY
12601

0.047

Stericycle Inc Rotterdam Industrial Park Bldg 1 Rotterdam NY 12306-1936

0.57

Medical Waste (SHARPS)

Daniels Health 925 Conroy Place Easton PA 18040

1.5

SHARPS 3246 Lincoln Hwy Paradise PA 17562

1.19

Stericycle Inc Rotterdam Industrial Park Bldg 1 Rotterdam NY 12306-1936

82.36

Approved Storage and Waste 110 Edison Ave Mount Vernon NY 10550

0.91

Metal Containers Regulated Recycling

The Conti Group 1661 46th St Brooklyn NY 11204

57.87

Ekman 1608 Rt 88 West Brick NJ 08724

82.77

Mixed Paper (Regulated Recycling)

Iron Mountain 4561 Oak Fair Blvd Tampa FL 333610

242

NorthEast Data Destruction PO BOX 316 West Hurley NY 12491

0.75

Raymour & Flannigan 401 Frank Sottile Blvd Kingston NY 12402 - Backhauled to
Distribution Centers 7248 Morgan Rd Liverpool NY 13088 and 341 Swedeboro Ave
Gibbstown NJ 08027

0.75

Staples Store #0242 Kingston NY -Backhauled to Distribution Center. Recycling Vendor
"Cellmark"

4.4

Wallkill Correctional Facility 50 McKendrick Rd Wallkill NY 12589

10.93

Westrock 504 Thrasher St. Norcross, GA 30071

1.5

Yank Waste Company 112 Karner Rd Albany NY 12205

16.4

Suburban Carting 566 North Road Briarcliff Manor, NY 10591

1124.85

The Yorkshire Group 150 Rivers Edge Unit 342 Medford MA 02155

244.87 (hardmix)

Suburban Carting 566 North Road Briarcliff Manor, NY 10591

769.19 (hardmix)

Motor Oil

Advanced Oil Recovery PO BOX 864 Milford PA 18337

19.28

Eagle Diesel Kingston NY

0.4

EnviroWaste 279 Route 6 Mahopac NY 10541

1.225

Envirowaste Oil Recovery 279 Route 6 Mahopac NY 10541, Safety Kleen Systems Inc. 17 Green Mtn Dr Cohoes NY 12407, Spring Grove Resource Recovery 4879 Spring Grove Ave Cincinnati OH 43025, Clean Harbors 3300 Cummings Rd Chattanooga TN 37419, Safety Kleen Systems 120 Forbes Ave East Haven CT 6512, and Clean Harbors 581 Milliken Drive SE Hebron OH,43025

144.99

Heritage-Crystal Clean 26 Sicker Rd Latham NY 12110

1.32

Miller Environmental Group 1619 Stone Castle Rd Rock Tavern NY 12575

0.44

Starr Collision & Auto Body Route 9W Saugerties NY

0.44

Clean Harbors facilities in; Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)

0.04 (HHW Program)

Municipal Solid Waste (MSW)

Seneca Meadows Landfill 1786 Saloman Road Waterloo NY 13165

106,629.00

Greene Co Solid Waste Management Co 181 NY 385 Catskill NY

49.7

Middletown Carting 83-85 Industrial Place Ext Middletown NY 10940

1.41

Orange County Transfer Station 1 21 Training Center Ln New Hampton NY 10958

21.7

Recommunity Beacon 508 Fishkill Ave Beacon NY 12508

10.89

Oil Filters

EnviroWaste 279 Route 6 Mahopac NY 10541

0.1

Envirowaste Oil Recovery 279 Route 6 Mahopac NY 10541, Safety Kleen 167 Mill St Cranston RI 2905, and Oil Filter Recyclers 1 North County 2 Highway Astoria IL 61501

23.275

Planet Earth Recycling & Recovery 3280 Sunrise Hwy. #303 Wantagh NY 11793

0.45

Veolia Environmental Services 1 Eden Lane Flanders NJ 07836

2.4

Organics (Animal Feeding Operations)

Hetrickdale Farm 69 Hetrick Rd, Bernville, PA 19506

91.53

MMT Cattle Inc 1942 Hickory Hill Rd, Fonda, NY 12068

217.09

Wil-Rock Farms Kinderhook NY

48.53

Organics (Biosolids Composting)**Rockland County Composting Facility, 400 Torne Valley Road, Hillburn NY 10931****3262****Organics (Brush/Yardwaste)**

Cantines Veterans Sports Complex 33 Pavillion St Saugerties NY 12477

5

Green Valley Landscaping 57 Cornell St Kingston NY

0.5

Headless Horseman Haunted Attractions 778 Broadway Ulster Park NY 12487

5

Town of Woodstock 45 Comeau Drive Woodstock NY 12498

0.25

Wallkill Correctional Facility 50 McKendrick Rd Wallkill NY 12589

16.52

Church Communities Inc dpa Maple Ridge Bruderhof

10

New Paltz Central School District - 196 Main Street New Paltz NY 12561

1.25

Town of Esopus MRDC 70 Westshore Drive West Park NY 12493

16.75

Town of Hurley MRDC 1043 Dug Hill Rd West Hurley NY 12491

80

Town of Marbletown MRDC 1925 Lucas Ave Cottekill NY 12419

35

Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561

358.93

Town of Shawangunk MRDC River Road Wallkill NY 12589

20

Town of Wawarsing MRDC 88-101 George Young Blvd Wawarsing NY

800

Community Compost Co 5941 Route 209 Kerhonkson NY

720

Custom Compost 168 Milton Turnpike Milton NY 12547

21

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY**879.19****Organics (Fats/Oils/Grease)**

Albany County Sewage Treatment Plant Menands NY

44.82

Blue Diamond Septic 357 South Albany Rd Selkirk NY 12158

100.36

Buffalo Biodiesel Inc 225 Sawyer Ave Tonawanda NY 14150

0.8

Dar Pro Solutions 825 Wilson Ave Newark NJ

3.72

Darling Ingredients Inc., 825 Wilson Ave., Newark NJ 07105

198.9

Dawes Septic & Repair 1933 State Rt 32 Modena NY 12548

2100

Grease Traps sent to M&O Sanitation Inc 70 Fairview Ave Poughkeepsie NY 12601

11.33

J.C. Rendering 201 Jackson Rd Frankfort NY 13340

7

JC Rendering Co 201 Jackson Rd Frankfort NY 13340

3.4

Miller Environmental, 532 State Fair Blvd, Syracuse, NY 13204

38.1

JBS Mopac, 249 Allentown Rd, Souderton, PA 18964

40.9

Organics (Food Donations)

Church Communities Inc dpa Maple Ridge Bruderhof

1.5

Family of Woodstock 166 Albany Ave Kingston NY 12402

0.12

Feeding America (suspected via Regional Food Bank of Northeastern New York 965
Albany Shaker Rd. Latham, NY 12110)

295.89

People's Place and Forsyth Nature Center 125 Lucas Ave Ext. 12401

9.1

Regional Food Bank of NENY 965 Albany Shaker Rd Latham NY 12110

244.6

Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561

0.712

VARIOUS LOCATIONS – DETAIL UNSPECIFIED

10.75

Organics (Leaves/Grass)

Green Valley Landscaping 57 Cornell St Kingston NY

0.3

New Paltz Central School District - 196 Main Street New Paltz NY 12561

1.25

Town of Esopus MRDC 70 Westshore Drive West Park NY 12493

0.54

Town of Hurley MRDC 1043 Dug Hill Rd West Hurley NY 12491

20

Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561

123.59

Town of Rochester MRDC 100 Airport Rd Accord NY 12404

0.5

Town of Rosendale MRDC 414 Whiteport Road Kingston NY 12401

14.75

Town of Ulster MRDC 584 East Chester St Bypass Kingston NY 12401

150

Organics (Manure)

Community Compost Co 5941 Route 209 Kerhonkson NY

394

Rocking Horse Ranch (Tee Bar Corp) 600 St Rt 44 Highland NY 12528

110

Organics (Mortality Composting)**Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY****13.35****Organics (SSO Composting)**Church Communities Inc dpa Maple Ridge Bruderhof 10 Hellbrook Ln, Ulster Park, NY
12487

16

Community Compost Co 5941 Route 209 Kerhonkson NY

316

Cornell Cooperative Extension UC 232 Plaza Rd Kingston NY 12401

0.25

Dean Ford & Sons Dairy 284 Hortons Rd Westtown NY 10998

0.73

Eastern NY Correctional Facility 30 Institutional Road Napanoch NY 12458

59

Ellenville Regional Hospital 10 Healthy Way Ellenville NY

1

Greenway Environmental Services 205 Hurds Rd Clintondale NY 12515

520

Mohonk Mountain House (Smily Brothers Inc) 1000 Mountain Rest Road New Paltz NY
12561

4.3

Organix 19065 Hickory Creek Dr Stte 240 Mokena IL 60448

36.1

Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561

4.996

Town of Woodstock 45 Comeau Drive Woodstock NY 12498

0.25

Wallkill Correctional Facility 50 McKendrick Rd Wallkill NY 12589

113.21

Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY**3,383**

Organics (SSO Anaerobic Digestion)

Agricycle Energy 95 Pleasant Hill Rd Suite G Scarborough ME 04074
207.52

Organics (Wood Pallets -Composting)

Town of Woodstock 45 Comeau Drive Woodstock NY 12498
3.1

Taylor Montgomery LLC 350 Neelytown Road Montgomery NY 12549
256.92

**Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY
25.48**

Organics (Woodchips)

**Ulster County Resource Recovery Agency 999 Flatbush Road Kingston NY
2114**

OTHER (Hazardous Wastes)

Clean Harbors facilities in Cranston, RI (167 Mill St, Cranston, RI 02905); El Dorado, AR (309 American Rd, El Dorado, AR 71730).

1.95 Other - (Aerosols, Misc.) (HHW Program)

Miller Environmental Group 1619 Stone Castle Rd Rock Tavern NY 12575
0.002 OTHER (Aerosols)

Miller Environmental Group 1619 Stone Castle Rd Rock Tavern NY 12575
0.005 OTHER - BULK LIQUIDS (non DOT non RCRA liquids)

TCI Alabama, 101 Parkway East Pell City AL 35125

12.7 OTHER - BULK LIQUIDS (PCB TRANSFORMER OIL)

TCI of NY LLC 99 Coeymans Industrial Park Lane Coeymans NY 12143

17.3 OTHER - CERAMIC BUSHINGS AND CAPACITORS NONPCB

G2 Revolution Findlay OH

0.046 OTHER - FRAGRANCE PRODUCTS

Veolia Environmental Services 1 Eden Lane Flanders NJ 07836

2 OTHER - MERCURY DEVICES

Clean Harbors facilities in Cranston, RI (167 Mill St, Cranston, RI 02905); Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232).

0.01 Other - Other Hazardous Misc. (HHW Program)

Clean Harbors facilities in ; El Dorado, AR (309 American Rd, El Dorado, AR 71730); Reidsville, NC (208 Watlington Industrial Dr, Reidsville, NC 27320).

5.99 Other - Pesticides (Liquids & Solids) (HHW Program)

TCI of NY LLC 99 Coeymans Industrial Park Lane Coeymans NY 12143

0.7 OTHER - USED NATURAL GAS PIPE NON HAZ

Heritage-Crystal Clean 26 Sicker Rd Latham NY 12110

2.2 OTHER - WASTE FUELS

Luzon Environmental Services 1246 Glen Vild Rd Woodridge NY 12789

102.2 OTHER - WASTE FUELS

Miller Environmental Group 1619 Stone Castle Rd Rock Tavern NY 12575

0.138 OTHER - WASTE FUELS

Starr Collision & Auto Body Route 9W Saugerties NY

0.07 OTHER - WASTE FUELS

Clean Harbors facilities in; Smithfield, KY (3700 Lagrange Rd, Smithfield, KY 40068).

5.92 Other- Waste Fuels (HHW Program)

Rever Smelting & Refining, 65 Ballard Road, Middletown, NY. Raw Materials

Co-International, 812 E. Ferry St, Buffalo, NY

0.21 OTHER (BALLASTS AND TRANSFORMERS)

Safety Kleen Systems Inc. 17 Green Mtn Dr Cohoes NY 12407, and Safety Kleen

Systems Inc 1200 Sylcan St Linden NJ 7036

2.083 OTHER (MINERAL SOLVENTS)

NLR Inc. 250 Main St East Windsor CT 06088

0.242 OTHER (non PCB lighting ballasts)

Safety Kleen Systems Inc 633 East 138th St Dolton IL 60419

0.01225 OTHER (PAINT CLEANER)

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).

10.07 Other- Paint (Processible & NonProcessible) (HHW Program)

Clean Harbors facilities in Cranston, RI (167 Mill St, Cranston, RI 02905); El Dorado, AR (309 American Rd, El Dorado, AR 71730); Reidsville, NC (208 Watlington

Industrial Dr, Reidsville, NC 27320). 1.907 Other- Acids & Bases Misc. Chemicals (HHW Program)

Veolia Environmental Services 1 Eden Lane Flanders NJ 07836

2 OTHER ASBESTOS CONTAINING MATERIALS ASSUMED PCB CONTAM

Clean Harbors facilities in; Spring Grove, OH (4879 Spring Grove Ave, Cincinnati, OH 45232)

0.02 Other- Mercury (HHW Program)

Plastics (HDPE #2) Regulated Recycling

Haycore 3144 Gregoire Rd Russell, ON Canada

41.77

Ekman 1608 Rt 88 West Brick NJ 08724

83.92

The Conti Group 1661 46th St Brooklyn NY 11204

21.7

EFS Plastic 5788 ine84 Listowel ON Canada

19.2

Plastics (PETE #1) Regulated Recycling

The Conti Group 1661 46th St Brooklyn NY 11204

103.46

Haycore 3144 Gregoire Rd Russell, ON Canada

21.71

Ekman 1608 Rt 88 West Brick NJ 08724

64.71

Plastics (Mixed #3-#7) Regulated Recycling

EFS Plastic 5788 ine84 Listowel ON Canada

38.51

Propane Tanks

Combined Energy Services Kerhonkson NY

2.25

Paraco Gas 2926 NY 32 Saugerties NY 12477

1.134

Rensselaer Iron & Steel 35 Riverside Ave Rensselaer NY 12144

10

Reuse Programs (Various)

Sams Club Kingston NY backhauled to distribution centers

5.2 REUSE - COAT HANGERS

Sams Club Kingston NY backhauled to distribution center

0.38 REUSE - EAS TAGS

Good360 Alexandria VA

1.75 REUSE (FURNITURE ETC)

Walmart Store #6201 801 Frank Sottile Blvd Kingston NY - Backhauled to Distribution Centers

98 REUSE (FURNITURE ETC)

Lamela Sanitation 1118 Rt 9W Marlboro NY 12542

31 REUSE (FURNITURE, ETC.)

Family of Woodstock 166 Albany Ave Kingston NY 12402

0.05 REUSE (FURNITURE, HOME GOODS)

Town of New Paltz MRDC 3 Clearwater Rd New Paltz NY 12561

18.9 REUSE (MIS. FURNITURE ETC)

ASPCA ULSTER COUNTY

0.15 REUSE (TEXTILES)

VARIOUS LOCATIONS - PALLET EXCHANGE PROGRAMS BY RETAIL/FOOD CENTERS

149.9 REUSE (WOOD PALLETS)

Scrap Metal (Ferrous)

ASAP Scrap 820 Route 211 East Middletown NY 10941

8.71

Baroni Recycling 1913 Route 414 Pleasant Valley NY 12569

49.5

Calvetta Cauterskill Rd Leeds NY 12451

4.8

G&S Motor Equip, 1800 Harrison Ave Kearny NJ and Baroni Recycling Poughkeepsie NY, and TCI of NY LLC Coeymans NY 21143

398

Nathan H Kelman Inc 41 Euclid St Cohoes NY 12047

660

Rensselaer Iron & Steel 35 Riverside Ave Rensselaer NY 12144

3860

SIMS Metal Mgmt. 820 Route 211 East Middletown NY 10941

10472

Wallkill Correctional Facility 50 McKendrick Rd Wallkill NY 12589

0.345

Scrap Metal (Mixed)

Ben Weitsman of Oswego - 15 W Main St Oswego NY 13827

18.53

Otsego Auto Crushers, Oneonta, NY

1.29

TAM Enterprises Goshen NY

86.16

ASAP Scrap 820 Route 211 East Middletown NY 10941

5.74

Baroni Recycling 20 Van Kleeck Drive Poughkeepsie NY 12601

1141.96

Bill's Junk Be Gone Lake Katrine (Bill Hoffman)

1.5

SIMS Metal Mgmt. 820 Route 211 East Middletown NY 10941

6797.79

Taylor Montgomery LLC 350 Neelytown Road Montgomery NY 12549

90.05

Teplitz Metal Middletown 108 West Nyack Rd, Middletown NY

7.2

Scrap Metal (Non Ferrous)

"American Lamp Recycling 55 Riverview Dr Marlboro NY 1254

Rever Smelting & Refining, 65 Ballard Road, Middletown, NY.

Raw Materials Co-International, 812 E. Ferry St, Buffalo, NY "

0.0958

Baroni Recycling 1913 Route 414 Pleasant Valley NY 12569

9.6

Calvetta Cauterskill Rd Leeds NY 12451

0.4

Nathan H Kelman Inc 41 Euclid St Cohoes NY 12047

26

Rensselaer Iron & Steel 35 Riverside Ave Rensselaer NY 12144

437

SIMS Metal Mgmt. 820 Route 211 East Middletown NY 10941

1448

Wallkill Correctional Facility 50 McKendrick Rd Wallkill NY 12589

3.23

Single Stream Recycling (SSR) Regulated Recycling

Canaan Transfer Station 27 Flints Crossing Rd Canaan NY 12029

16.97

Cascades Recovery 66 Shorncliffe Rd Toronto Ont M8Z5K1 Canada

145.6

Greene Co Solid Waste Management Co 181 NY 385 Catskill NY

908.57

Greene Co Solid Waste Management Co 181 NY 385 Catskill NY

330.62

Orange County Transfer Station 1 21 Training Center Ln New Hampton NY 10958

75.94

Republic Services Recommunity Beacon 508 Fishkill Ave Beacon NY 12508

2213

Tyler & Son 65 Tyler Lane Cottekill NY 12419

220.23

Waste Management of NY LLC 264 Old Flatbush Rd Kingston NY 12401

2913.66

Textile Recycling

St Pauly Textile 1067 Gateway Drive Farmington NY 14425

35.89

Textile Recovery Service 1615 Suite 203 Bohemia, NY, 11716-1206

50

USAgain LLC 18 Sargent Place Mount Vernon NY 10573

3.5

Whitehouse & Schapiro LLC 7200 Standard Dr Hanover MD 21076

143

YESS Trading LLC 1701 E US Highway 281 Hidalgo TX 785572

143

Wallkill Correctional Facility 50 McKendrick Rd Wallkill NY 12589

4.99

ULSTER COUNTY FIREMAN'S ASSOCIATION**3.11****Tires**

Ben Tire Linden NJ

4.7

Ben Weitsman of Oswego - 15 W Main St Owego NY 13827

0.5

Bob's Tire Co. 55 Brook St, New Bedford, MA 02746

45.55

Casings Inc. 169 Maple Ave Catskill NY 12414

1044.83

Custom Bandag 491 Temple Hill Rd, New Windsor NY

1.62

Empire Tires of Edgewater 1414 Norwich Rd Plainfield CT 06374

88.4

Family Tire Recovery 12 Biechman Rd Ravena NY 12143
6.04
Frank Reese Tire Recycling Middletown NY
4.5
Greene Co Solid Waste Management Co 181 NY 385 Catskill NY
0.1
Lakin Tire East Inc 220 Frontage Rd West Haven CT 06516
204.19
Service Tire Truck Center 1166 Route 9W Marlboro NY 12542
5.5
SGS Recovery 4870 Packard Rd Niagara Falls NY 14304
233.6
Tire Discount 76 Dolson Ave Middletown NY 10940
0.98

III. SIGNIFICANT PLAN UPDATES

3.1 Compost Program Expansion

- *(2020) Request bids to clear acreage on recently acquired land to expand the composting program*
- *(2021) Begin to clear acreage and construct expansion the composting program*
- *(2021) UCRRA to begin bagging compost; update promotional and marketing strategies.*
- *(2020) UCRRA to begin bagging compost; incorporate new promotional and marketing strategies*
- *(2021) Evaluate success of bagged compost material*

The LSWMP approached a Compost Program expansion through re-locating the entire operation to a new area. The new Executive Leadership found this approach to be unnecessary and costly. The Agency was able to successfully complete facility upgrades and acquired essential processing equipment infrastructure that expands local capacity for organics recycling service and improves the overall odor mitigation of the program, while utilizing the existing footprint of the Agency composting site. As discussed in Section 1.3.2 of this document, these upgrades include the purchase of a loader, a radial stacker, a trommel screen, installation of utility poles, an expanded concrete pad and blacktopping throughout the compost facility, as well as the new compost bagging facility, and Sustainable Living

Center. Refer to Section 1.3.2 for more details. The Agency continues planning to launch a compost bagging operation, which has been delayed for over two years.

3.2 Education Program Expansion

- *(2020) Secure funding for a vehicle to create a mobile classroom for recycling education*
- *(2020) Evaluate conversion of the current administration building into an education center*
- *(2021) Purchase vehicle for mobile classroom education program*

The LSWMP discussed the creation of a mobile classroom by purchasing a vehicle that could be driven to schools, events, etc. The Agency was able to successfully complete the same objective by creating synergies with other facets of the existing UCRRA facilities, through the creation of the Sustainable Living Center (refer to Section 1.3.2) and the Home Compost Demonstration Center (refer to Section 1.4.1).

3.3 Facility Expansion (Eco Park)

- *(2020) Secure approval and funding to construct a residential drop-off center at the Ulster Transfer Station*
- *(2020) Develop concepts for a year-round household hazardous waste center*
- *(2020) Develop concepts for a new administration building*
- *(2021) Secure funding for mobile classroom vehicle, compost expansion, household hazardous waste center, and new administration building*
- *(2021) Clear space and construct a residential drop-off center at the Ulster Transfer Station*
- *Select a consulting firm to design new HHW center and new administration building*

The original LSWMP discussed the creation of an Eco-Park concept that would, among other programs, make residential trash disposal and recycling services available as part of UCRRA's service. However, residents have vast access to recycling and disposal programs across Ulster County at the 19 existing Municipal Recycling Drop Off Centers owned and operated by the local municipalities. Ulster County residents also have vast access to a dynamic market of curbside collection options operated by over a dozen private sector haulers. Additionally, there is an MRDC located 2.5 miles from the UCRRA Ulster Transfer Station. Additionally, the Town of Hurley and Town of Saugerties transfer stations are within 10 miles of the UCRRA facility. The County's largest municipality, the City of Kingston, has municipal curbside collection and access to its own MRDC. Without a demonstrated need for such a facility, and

without the appropriate financial planning for such a facility, the new Executive Leadership found this program would be uneconomical and would not practically expand recycling services in the communities served by the Agency.

The Eco-Park concept also called for the creation of a year-round household hazardous waste center, which also lacked a cost-benefit analysis. The Agency decided to pursue other means of successfully expand the HHW service; such as by adding additional events held each year, rotating the events to different locations around the County to access more communities (including environmental justice areas) and by participating in the New York State Paint Stewardship program, PaintCareNY, which will allow for the inclusion of latex paint that was previously not acceptable at UCRRA HHW programs. Refer to Section 1.3.1 and 1.3.5 for more details. There may be other ways the Agency could approach this goal, such as by creating a battery recycling program and improvements to the fluorescent lighting recycling program. This concept will continue to be reviewed by Agency Board of Directors and Executive staff.

The plan called for the financing and construction of a brand new Administration Building, which the new Executive Leadership at UCRRA also found to be grossly uneconomical. At the time of this update, there are currently only five full-time administrative office staff at UCRRA, and two full time vacancies. With no future hiring plan in place to significantly increase the staff, the concept lacks justification when the existing building can be upgraded to be more energy efficient or expanded with an addition.

3.4 Technology Selection Process

- *(2020) Secure funding for feasibility studies*
- *(2020) Contract a consulting firm to evaluate the possibility of permitting and constructing a local landfill or a BioHiTech Facility within Ulster County*
- *(2021) Contract with a consulting firm to evaluate the possibility of infrastructure upgrades to the existing materials recovery facility and other equipment related to recycling*
- *(2021) Contract with a consulting firm to evaluate the possibility of exporting MSW and C&D to landfills via railroad system taking into consideration locations for spur connections, ability to site a transfer near the railroad, and impacts to community (odors and truck traffic to facility)*

Section 7.11 of the LSWMP discusses Technology Selection. Three technologies had been selected to pursue in the 10 year planning period. “Feasibility studies for siting a local landfill,

installing a BioHiTech (biomass) Facility, and waste exportation by railroad will be conducted. A fourth feasibility study related to the materials recovery facility will also be conducted...” (p.114).

Despite the implementation obstacles discussed in Section 1.6 the Agency took meaningful steps to gather relevant information and make meaningful progress in the area of investigating future final disposal technologies, without the need to contract with a consulting firm and do multiple feasibility studies simultaneously.

UCRRA staff recognizes the value in a multifaceted approach to integrative sustainable materials management and investigating alternative technologies. In place of conducting these feasibility studies, the Agency staff and Executive Director took the following steps towards the goals of evaluating a final disposal technology:

- Agency staff met with representatives from Waste Management in August 2020. Warren Harris and Fred Confalone presented information about Waste Management's history of public-private partnerships around siting, constructing, and managing sanitary state of the art landfills. The representatives from Waste Management discussed their interest in a public-private partnership for the technical review, selection, construction, operation of a landfill. In this scenario, a private company would be responsible for the capital investment, financing and overall operations and management of the landfill and any renewable energy projects affiliated with the facility, and UCRRA may play a role in the SEQRA process, and other aspects of socio-political advancement of the project as well as obtaining and maintaining any related permits. A partnership would allow for a long term fixed rate of disposal (airspace). This information gathering meeting was an excellent opportunity to gain insight from leading professionals in the field and was a meaningful step towards these plan goals.
- In September 2020, Agency staff held a conference call with a professional financial advisor to be mentored about examples of public-private partnerships and what inherent financial risks, successes, and scenarios have historically been realized. The advisor explained other examples of public-private partnerships in New York State: Monroe, Ontario, Colonie, Saratoga, Chemung, and Clinton (all towns/counties and none are solid waste authorities) and cautioned to be 'sophisticated' in the terms, conditions, goals of the project/contracts and that an RFP would allow the Agency to evaluate proposals in a controlled solicitation to gather professional and technical expertise. The meeting was another important step in the information gathering-process.
- In September 2020, Agency staff reached out to NYSDEC requesting a conference call to gain information and education about the overall process of siting a landfill. Agency

staff prepared a list of questions and scheduled a conference call in November. Agency staff and members of the UCRRA Board of Directors participated in the conference call, facilitated by John W. Petronella, Regional Permit Administrator, Division of Environmental Permits NYSDEC.

- During the Fall of 2020, Agency staff engaged with several companies including Hughes Energy, Caribou Biofuels, and Green Waste Energy, to gather information about these alternative disposal technologies and any potential opportunities for collaboration on future projects. Green Waste Energy gave an informational presentation to the UCRRA Board of Directors on March 29, 2021. The Agency staff has a greater awareness of alternatives and seeks to monitor the development of these technologies in the local region.
- In February 2021, the Agency was contacted by a researcher enrolled in a master's program in Industrial Ecology at NTNU in Trondheim, Norway, though they are a native of the Hudson Valley/Ulster County area. Through several emails, virtual meetings, and phone discussions, staff engaged with the researcher who was conducting master thesis work on biogas feedstock availability and anaerobic digestion/biogas potential in the Hudson Valley. In June 2021 they presented a project proposal to collaborate on the Green Innovative Grant Program (GIGP) to establish a prototype and demonstrate capacity and functionality of a hybrid AD-Pyrolysis unit, with an educational component, in hopes of establishing greater biogas solutions for the region. The researcher was ultimately seeking cosponsorship for the grant project to install these systems across the region, positioned strategically where invasive water chestnut infestations were ecological concerns. While they claimed the units would be turn key solutions, optimizing synergizes of A.D. and pyrolysis, the information presented and the timeline for the grant did not provide the Agency with sufficient information to commit to the project with greater certainty of its feasibility, outcomes, regulatory controls, etc. The researcher explained that in addition to UCRRA as a possible sponsor for the project, his team identified 9 other potential partnerships including the Beacon TS, Monticello TS, Taylor-Montgomery LLC, Colonie Landfill, Delaware County Waste Department, WeCareDenali Rockland, Westchester WWTP, Wheelabrator Westchester, and Dutchess County RRA) but it was unclear to staff if any of the other communities mentioned had committed to participate at any level.
- In April 2021 UCRRA engaged with a SUNY New Paltz graduate to conduct a GIS Analysis utilizing ArcGIS Pro to analyze how various geographic and environmental variables interact and demonstrate what areas of the county may be suitable for further investigation of a solid waste landfill. However, due to misrepresentation of the project by local press media, the individual ultimately chose not to work with the Agency on this mapping exercise.

- In July 2021 UCRRA engaged with HydroQuest to conduct a GIS Analysis to identify a number of potential sites in the County that conform to NYSDEC landfill siting criteria, are protective of the environment, and are not situated in heavily populated or Environmental Justice Areas. A step-wise elimination process using a combination of many GIS database tools and rigorous geologic and hydrologic assessments would be involved in this study. The goal of this project is 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.

Considering the work that has been done in these areas, the Agency is actively considering all options. These tasks and feasibility studies will continue to be considered and reviewed by Agency Board of Directors and Executive staff.

3.5 Stony Brook University Waste Data and Analysis Center

Stony Brook University Waste Data Analysis Center is executing a [Waste Data & Analysis research project](#) sponsored by the New York State Department of Environmental Conservation (NYSDEC) through the Environmental Protection Fund. 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. The Agency agreed to participate in the study on July 12, 2021, involving a week-long waste audit to be repeated annually over a five year period. During a sampling visit (July 12th - July 16th 2021) 12 samples of municipal solid waste (3,443.9 LBS) and 3 samples of dual stream recycling (502.0 LBS) were analyzed for the research study. The samples were recovered from various residential, commercial, and institutional sources. The Waste Audit Study presents a unique opportunity for the Agency to review data about waste composition



metrics, and evaluate how local disposal patterns compare to the available state and national metrics. The study also enables UCRRA staff to probe questions that may be beneficial to future solid waste management planning.



The Agency worked internally to develop its own goals in the study, in hopes of better understanding differences in MSW composition between curbside collection and drop off services respectively. The study also will aid in analyzing recycling compliance standards among large and medium size private sector hauling companies. The study can also aid in evaluating capture rates (recycling rates) or reveal information about the true prevalence of single use disposable plastics that cannot be captured for mechanical recycling, but may be recoverable through other forms of chemical recycling in the future.



Participation in the research study is at no cost or financial obligation to UCRRA. All necessary equipment required to execute the study will be delivered, maintained, and removed by the Vendor at the end of the waste audit sampling day. The Vendor assumes responsibility for training all participants in the research study to conduct the waste audit study in a safe, sanitary manner.

3.6 Status of Organics Recycling Laws

The Ulster County Food Scrap Prevention and Recovery Act went into effect on January 1st 2021 requiring large food scrap generators, defined as generating over 2 tons per week, to donate excess edible food and recycle all remaining food scraps regardless of the distance to the nearest recycler. The Ulster County Law identifies large generators as a person, business, entity, or institution that generates an annual average of one half ton per week or more of food scraps, 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. The law also

establishes a timeline for implementation and including additional generators over time. Effective January 1st 2021: generators producing 1 ton per week. Effective July 1st 2022: 0.75 tons per week. Effective January 1st 2022: 0.50 tons per week.

At the same time, the New York State Food Scrap Donation and Recycling Program will go into effect January 1st 2022, requiring large food scraps generators to donate excess edible food and recycle all remaining food scraps if located within 25 miles of an organics recycler that has excess capacity.

IV. IMPLEMENTATION SCHEDULE UPDATES

This section lists any revisions to the implementation schedule. As noted in the Foreword of this document, new strategies for a revised implementation plan have been identified and presented below.

Invest in sensible facility infrastructure development

- (2020) Invest in a truck scale replacement project for all three truck scales at the Ulster Transfer Station. (COMPLETED)
- (2022-2024) Monitor performance of the 2020-2021 Compost Facility Improvements, and evaluate impact on odor mitigation. (Added to ORGANICS RECOVERY)
- (2022-2029) Evaluate and update capital plan on an annual basis as necessary. (Added to FINANCE)
- (2022) Per Capital Plan, purchase Transportation Equipment (roll off truck), Heavy Equipment (Waste Handler Loader-Ulster & Refurbish CAT320 Excavator), Buildings & Grounds (mini excavator), (Added to FACILITY UPGRADES & IMPROVEMENTS)
- (2023) Plan energy efficiency upgrades to the existing Administration Building. **Note: this replaces task(s) associated with permitting and constructing a brand new administration building.** (Added to FACILITY UPGRADES & IMPROVEMENTS)
- (2023) Per Capital Plan, purchase Heavy Equipment (Excavator- Ulster), Materials Recovery Equipment (Skid Steer Loader w/Attachments & MRF Infeed Belt) (Added to FACILITY UPGRADES & IMPROVEMENTS)
- (2024) Evaluate community solar contracts expiring, and evaluate on-site opportunities to develop photovoltaic system. (Added to FACILITY UPGRADES & IMPROVEMENTS)

- (2024) Per Capital Plan, purchase Heavy Equipment (Waste Handler Loader-New Paltz) (Added to FACILITY UPGRADES & IMPROVEMENTS)
- (2025-2029) Implement energy efficiency upgrades to existing Administration Building. **Note: this replaces task(s) associated with permitting and constructing a brand new administration building.** (Added to FACILITY UPGRADES & IMPROVEMENTS)
- (2026) Per Capital Plan, purchase Heavy Equipment (Excavator - New Paltz) (Added to FACILITY UPGRADES & IMPROVEMENTS)
- (2027) Evaluate other needs/improvements/ expansions to the Administration Building. (Added to FACILITY UPGRADES & IMPROVEMENTS) **Note: this replaces task(s) associated with permitting and constructing a brand new administration building.**

• **Maintain excellence and excel at environmental and ABO compliance standards**

- (2022-2023) Research and implement technology needed for a Compost Facility weather station. Use data to enhance Compost Facility odor mitigation strategies. (Added to ORGANICS DIVERSION)
- (2022-2029) Engage with statewide waste and recycling groups, organizations, and councils to learn about best practices and emerging concepts in sustainable materials management. (Added to TECHNOLOGY ASSESSMENT)
- (2022-2023) Recruit a qualified candidate for Recycling Compliance Officer position. (Added to LAW & LEGISLATION)
- (2023-2025) Conduct stakeholder engagement process to advocate for amendments and improvements to the Ulster County Mandatory Source Separation & Recycling Law. (Added to LAW & LEGISLATION)

• **Improve organizational administration**

- (2021) Designate an Office Manager and an Operations Manager. (COMPLETED)
- (2021) Update Recycling Coordinator job description to Director of Sustainability, and create a designated Recycling Education Department within organizational structure. (COMPLETED)
- (2022-2023) Seek a qualified candidate for Recycling Compliance Officer position. (Added to LAW & LEGISLATION)
- (2022-2023) Create succession planning for retiring Administration and Operations staff. (Added to FACILITY UPGRADES & IMPROVEMENTS)

- (2022-2024) 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. (Added to FACILITY UPGRADES & IMPROVEMENTS) **Note: this task(s) also relates to the ongoing work of expanding HHW services, perhaps replacing the construction of a permanent drop off.**

• **Optimize transfer station waste diversions and resource recovery abilities**

- (2020-2021) Implement a textiles recycling program (target waste diversion). (COMPLETED)
- (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. **Note: this task(s) also relates to the ongoing work of expanding HHW services, perhaps replacing the construction of a permanent drop off.** (Added to EDUCATION & OUTREACH)
- (2023) Evaluate PaintCare NY program and advocate to MRDCs to participate in paint stewardship. Evaluate other opportunities to expand Paint Care service and programs. **Note: this task(s) also relates to the ongoing work of expanding HHW services, perhaps replacing the construction of a permanent drop off.** (Added to EDUCATION & OUTREACH)
- (2022-2024) 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. (Added to FACILITY UPGRADES & IMPROVEMENTS) **Note: this replaces task(s) associated with permitting and constructing a brand new administration building, and also relates to the ongoing work of expanding HHW services, perhaps replacing the construction of a permanent drop off. permanent HHW drop off center, etc.**
- (2023) Evaluate abilities, programs, funding, etc. for implementing a residential battery recycling program. (Added to FACILITY UPGRADES & IMPROVEMENTS) **Note: this task(s) also relates to the ongoing work of expanding HHW services, perhaps replacing the construction of a permanent drop off.**
- (2024) Evaluate abilities, programs, funding, etc. for implementing a residential fluorescent lamp recycling program. (Added to FACILITY UPGRADES & IMPROVEMENTS) **Note: this task(s) also relates to the ongoing work of**

expanding HHW services, perhaps replacing the construction of a permanent drop off.

• **Cultivate sustainable community systems for organics recovery and recycling**

- (2022-2023) Recruit a qualified candidate for Recycling Compliance Officer position. (Added to LAW & LEGISLATION)
- (2024-2025) Conduct stakeholder engagement process to advocate for amendments and improvements to the Ulster County Mandatory Source Separation & Recycling Law. (Added to LAW & LEGISLATION)
- (2022-2024) 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. (Added to ORGANICS DIVERSION)
- (2022) Research systems for tote bin cleaning stations as possible addition to Organics Recovery service. Research grant funding. (Added to ORGANICS DIVERSION)
- (2023-2024) 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 (Added to ORGANICS DIVERSION).
- (2023-2024) Pending availability of funding, pursue tote bin cleaning station for Organics Recovery Facility. (Added to ORGANICS DIVERSION)
- (2024-2025) 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. (Added to ORGANICS DIVERSION)
- (2024) 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. (Added to ORGANICS DIVERSION)
- (2025) Implement expansion of program to 1-3 additional MRDCs based on survey results. Continue to monitor the quality of SSO metrics of usage, etc. (Added to ORGANICS DIVERSION)

- (2025) Implement strategies developed by "community consortium". (Added to ORGANICS DIVERSION)
- (2026-2029) 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. (Added to ORGANICS DIVERSION)
- (2026) 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.) (Added to ORGANICS DIVERSION)
- (2026) Evaluate success of "community consortium" efforts. (Added to ORGANICS DIVERSION)
- (2027) 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. (Added to ORGANICS DIVERSION)
- (2027-2029) Set long term goals for the MOR project based on previous years efforts and successes. Implement. (Added to ORGANICS DIVERSION)
- (2028) Implement strategies developed by "community consortium". (Added to ORGANICS DIVERSION)
- (2029) Evaluate success of "community consortium" efforts. (Added to ORGANICS DIVERSION)

• **Foster a culture of environmental sustainability through outreach education**

- (2022) Launch Library Display Initiative to allow community centers to borrow educational installations about program themes and messages. (Added to EDUCATION & OUTREACH) **Note: this replaces task(s) associated with creating a mobile education unit (bus, etc.)**
- 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. **Note: this replaces task(s) associated with creating a mobile education unit (bus, etc.)** (Added to EDUCATION & OUTREACH)
- (2022) Launch grand opening of UCRRA Home Composting Demonstration Garden for use in facility tours, educational classes, hands-on workshops, etc. (Added to EDUCATION & OUTREACH)

- (2022-2024) Create UCRRA video series to facilitate virtual tours and improve community literacy about UCRRA programs and services. (Added to EDUCATION & OUTREACH)
- (2022-2023) Develop concepts for a county-wide America Recycles Day campaign, competition, or event. (Added to EDUCATION & OUTREACH)
- (2023-2024) Develop concepts for a UCRRA Compost Fair & Education Day Event in collaboration with Spring Compost Bin & Rain Barrel Sale events and International Compost Awareness Week. (Added to EDUCATION & OUTREACH)
- (2025-2026) Develop concepts for a 10 week certification course or training program to certify 'Ulster County Zero Waste Ambassadors' or similar training certification program. (Added to EDUCATION & OUTREACH)
- (2027-2029) Recruit and Implement strategies for the Ulster County Zero Waste Ambassadors training program, and utilize community participants to expand UCRRA educational reach. (Added to EDUCATION & OUTREACH)
- (2023-2029) Continue to promote new educational programs offered at UCRRA. (Added to EDUCATION & OUTREACH)

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

- (2022-2023) Evaluate greenhouse gas emissions inventory of UCRRA operations. (Added to FACILITY UPGRADES)
- (2023) 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)
- (2025-2029) Implement energy efficiency upgrades to existing Administration Buildings. (Added to FACILITY UPGRADES)
- (2027) Evaluate other needs/improvements/ expansions to the Administration Building. (Added to FACILITY UPGRADES)

• **Build strategic partnerships that enable regional coordination**

- (2022-2029) Engage with local, regional, and statewide waste and recycling groups, organizations, and councils to learn about best practices emerging concepts in sustainable materials management. (Added to LAWS & LEGISLATION)
- (2022-2029) 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. (Added to TECHNOLOGY ASSESSMENT)

- (2023-2024) 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. (Added to SOLID WASTE MGMT PLAN)

• **Investigate new waste technologies and final disposal solutions**

- (2022-2023) 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. (Added to FEASIBILITY STUDY) **Note: this may affect task(s) associated with creating other feasibility studies previously discussed in the original LSWMP.**
- (2022-2025) Participate in a Waste Audit Research Study by Stonybrook University Waste Data & Analysis Center. (Added to FEASIBILITY STUDY) **Note: this may affect task(s) associated with creating other feasibility studies previously discussed in the original LSWMP.**
- (2026) 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. (Added to FEASIBILITY STUDY) **Note: this may affect task(s) associated with creating other feasibility studies previously discussed in the original LSWMP.**
- (2022-2024) 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. (Added to FEASIBILITY STUDY) **Note: this may affect task(s) associated with creating other feasibility studies previously discussed in the original LSWMP.**

V. APPENDIX

	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 and education									
	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.		Provide assessments and feedback about implementation of the law, or make recommendations based on evaluations			
	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"/> 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.									
	Participate in Stonybrook University Waste Data & Analysis Center Waste Audit				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.					
	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.									
	<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		

Facility Upgrades and 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.		<input type="checkbox"/> Start construction of the HHW center	<input type="checkbox"/> Inventory rolloff containers, yellow iron and trucks for upgrades or replacement				
	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			
	Create succession planning for retiring Administration and Operations staff.	Evaluate abilities, programs, funding, etc. for implementing a residential battery recycling program.	Evaluate abilities, programs, funding, etc. for implementing a residential fluorescent lamp recycling program.					
	Monitor performance of the 2020-2021 Compost Facility Improvements, and evaluate impact on odor mitigation.	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 UCRRRA 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	
	<input type="checkbox"/> Evaluate success of bagged compost material			<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	<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.				
<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		

Education and Outreach	<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 type="checkbox"/> Schedule routine sessions with local community entities and school using the mobile classroom	<input type="checkbox"/> Schedule routine sessions with local community entities and school using the mobile	<input type="checkbox"/> Evaluate effectiveness of mobile classroom	<input type="checkbox"/> Update content as practical in mobile classroom		
	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.	<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"/> Alter education programs and techniques based on evaluation from previous year		<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.						
	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.	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.							