



Clinton County Solid Waste Planning Committee
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Materials Management Planning Committee Meeting

Part 115 of Michigan's Solid Waste Management Act (MCL §324.11571 *et seq.*) ("Part 115")

CLINTON COUNTY COURTHOUSE FIRST FLOOR CONFERENCE ROOM
100 East State Street, St Johns, MI 48879

TUESDAY, February 10, 2026
5:45PM

AGENDA

1. Call Meeting to Order
2. Election of Officers
3. Approval of Agenda
4. Approval of December 9, 2025, meeting minutes – Attachment 1
5. Approval of Per Diems/Mileage Vouchers
6. Materials Management Plan Development
 - a. Section One review
 - b. Section Two and Section Four of MMP – review drafts for final edits
 - c. Planning Update – overview of Section Three
 - d. Plan Adoption Timeline – overview of next steps
7. Public Comment
8. Other Business
9. Adjournment

PACKET INFORMATION IS CURRENT AS OF POSTING DATE. NOTE: ADDITIONAL INFORMATION MAY BE PRESENTED ON SCHEDULED AGENDA ITEMS. AGENDA ITEMS MAY ALSO BE ADDED DUE TO BUSINESS NEEDS. TO REQUEST ACCOMMODATIONS OR MATERIALS IN AN ALTERNATIVE FORMAT, PLEASE CONTACT ADMINISTRATIVE SERVICES AT 989-224-5120 OR VIA EMAIL AT ADMIN@CLINTON-COUNTY.ORG NO LATER THAN 48 HOURS PRIOR TO THE MEETING.

SECTION ONE. Planning Area Profile

Overview

The purpose of this chapter is to provide context and a baseline understanding of Clinton County, Michigan by providing an overview of the general characteristics of Clinton County and its managed materials that will be a part of the County's materials management plan. This chapter will cover the following information:

- The communities and political jurisdictions within the County;
- The County's current population in the reference year and projected population density throughout the planning period;
- The sources for all managed material generated in the planning area, including solid waste, diverted waste, or recyclable material;
- The current and planned materials management infrastructure available for managing all materials generated within the County;
- The County's Municipal Solid Waste (MSW) Recycling Rate, based on available data from the reference year; and
- Any other characteristics that are unique and may affect or create challenges to effective materials management within the County.

The County's Municipal Solid Waste Management Plan (SWMP) was last formally updated in 1999 in compliance with the Michigan Department of Environment, Great Lakes, and Energy (EGLE) Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act (herein referred to as Part 115). Several amendments to the 1999 SWMP were submitted and approved since 2000 (most recently, 2023); however, the SWMP has not been updated in full since 1999.

Clinton County is geographically located in the center of Michigan. The County is traversed by several major highways including US 127, I-69, and I-96. The southern portion of the County is predominantly suburban in a regional context. While the northern area of the County still retains a large amount of agricultural and rural areas, with urban development in and around the villages and the cities. The County is seeing increased subdivision, multi-family residential, and associated service industry development. In 2019-2020, a major industrial development was constructed on the north side of St. Johns (MidWest Cheese Factory).

This Materials Management Plan (MMP) was prepared for the Clinton County Designated Planning Agency (DPA), the Clinton County Department of Waste Management (DWM) by GT Environmental. Clinton County will be referred to as "County" or "DWM" throughout the Plan for clarity and simplicity's sake.

1.1 POPULATION

Population distribution, density, and change affect the types of diversion and materials management opportunities that make sense for a particular community and the County. To determine that sufficient capacity exists to manage all material generated within Clinton County, the current and projected population densities are examined.

[POPULATION DENSITY MAP WILL BE INSERTED HERE]

Clinton County located in central Michigan, consists of 30 cities, villages, and townships. The County covers 566 square miles and had a 2023 U.S. Census Population of 79,249 residents according to the U.S Census American Community Survey (ACS). As shown below in Table 1-1, the County has a population density of 140 as of 2023 and is projected to increase to 148 people per square mile by 2031.

Clinton County is the County with the fastest population growth in the State of Michigan¹ and this trend is expected to continue. The Michigan Center for Data and Analytics (MCDA) published a 2024 report listing population projections for Michigan counties. Unlike much of the state, which is projected to grow at roughly 2.3% on average through 2034, Clinton County is projected to see a 9% increase in its overall population growth over this time. The five-year population projections were calculated using an annual percentage change of 0.30%, which reflects the MCDA's thirty-year projected population growth for Clinton County of 9% growth from 2020 through 2050.

Table 1-1 Population Density: Reference Year and Projected 5-year Population

| | Reference Year: 2023 | 5-Year Projections | | | | |
|--|----------------------|--------------------|--------|--------|--------|--------|
| | | 2027 | 2028 | 2029 | 2030 | 2031 |
| Population | 79,249 | 81,510 | 81,754 | 82,000 | 83,814 | 84,065 |
| Land Area | 566.41 square miles | | | | | |
| Population Density (persons per square mile) | 140 | 144 | 144 | 145 | 148 | 148 |

Sources:

U.S. Census American Community Survey "ACS Demographic and Housing Estimates," 2023.

Michigan Center for Data Analytics (MCDA) Statewide Population Projections through 2050

GT Environmental, Inc. calculations

¹ <http://www.usa.com/rank/michigan-state--population-growth-rate--county-rank.htm>

In materials management planning, growth in population, housing unit development, as well as commercial and industrial planning are important characteristics. They are essential to building strong diversion infrastructure and management programs. As shown in Table 1-2, per the 2023 U.S. Census American Community Survey, Clinton County’s population is 79,249 people with roughly 33,116 households.

Table 1-2 Reference Year Population and Households (2023)

| Political Jurisdiction | Population | Single-Family Housing Units |
|--------------------------------|---------------|-----------------------------|
| City of DeWitt | 4,779 | 1,793 |
| City of Ovid | 1,485 | 604 |
| City of St. Johns | 7,699 | 3,430 |
| City of East Lansing (portion) | 2,451 | 1,168 |
| Village of Eagle | 105 | 34 |
| Village of Elsie | 942 | 444 |
| Village of Fowler | 1,230 | 634 |
| Village of Maple Rapids | 583 | 296 |
| Village of Westphalia | 941 | 357 |
| Bath Township | 13,331 | 5,892 |
| Bengal Township | 1,054 | 398 |
| Bingham Township | 2,923 | 1,193 |
| Dallas Township | 2,457 | 998 |
| DeWitt Township | 15,265 | 6,586 |
| Duplain Township | 2,346 | 995 |
| Eagle Township | 2,775 | 1,008 |
| Essex Township | 1,822 | 747 |
| Greenbush Township | 2,055 | 901 |
| Lebanon Township | 595 | 270 |
| Olive Township | 2,533 | 928 |
| Ovid Township | 1,252 | 260 |
| Riley Township | 1,874 | 756 |
| Victor Township | 3,475 | 1,393 |
| Watertown Charter Township | 5,631 | 2,363 |
| Westphalia Township | 2,243 | 836 |
| TOTAL | 79,249 | 33,116 |

Sources: U.S. Census Bureau, 2019-2023 American Community Survey 5-Year Estimates.

1.2 GENERATION

Part 115 and Michigan EGLE require the County to identify by type and tonnage all managed material generated in the planning area. “Managed material” is defined in statute as all solid waste, diverted waste, or recyclable material. This section details quantities of waste disposal, recyclables, composted material, specialty waste streams, as well as any source reduction/waste minimization in Clinton County.

The method which best represents generation in the County is adding together diversion data and waste disposal data. Where possible, disposal and diversion data were obtained from Michigan EGLE. Disposal data came primarily from the Fiscal Year 2023 “Report of Solid Waste Landfilled in Michigan,” published annually by Michigan EGLE. Registered Michigan landfills are required by Part 115 to report waste receipt volumes in cubic yards or tons, using the Re-TRAC Connect (Re-TRAC) Michigan Solid Waste Authorization Program. Disposal data was supplemented with data from Clinton County’s annual Clean Community Event internal spreadsheets, as well as directly from Granger Companies.

Recycling tonnages were captured directly from Clinton County DWM. DWM publishes an annual “Final Recycling Options Report”, with tonnages and funding costs for in-county and neighboring county drop-off recycling sites. Funding for two of these recycling drop-off sites is provided by DWM. Clinton County also tracks recycling from their annual Clean Community Events.

Compost tonnages were captured from Michigan EGLE’s Waste Data System (WDS). Registered Michigan composting facilities are required to submit annual reports to EGLE annually by October 30th, reporting on how many yard waste, food waste, compostable products, and food processing residuals were composted during the previous year. EGLE does not require compost reports to share the origin of compost material, so estimates of Clinton County’s total compost were estimated.

MSW generation is calculated by adding the quantities of waste disposed of with diverted materials. MSW generation is generally a result of population growth, examined above, lifestyles, economic activity, and production practices. Table 1-3 shows the MSW generation in Clinton County for the baseline year, for an estimated total of 78,152 tons generated in 2023. Because the compostable and source reduction material streams are estimated, actual tonnages generated from within the County may vary.

TABLE 1-3 Material Generation

| Material Stream | Tons Generated | % of Total Material Stream |
|------------------|----------------|----------------------------|
| Disposal | 66,363 | 84% |
| Recyclables | 3,346 | 4% |
| Compostables | 9,640 | 12% |
| Source Reduction | 0 | 0% |
| TOTAL | 78,152 | 100% |

1.2.1 Waste Disposal

Clinton County disposed of over 66,000 tons of waste in 2023 of which 97% is Municipal Solid Waste (MSW). Industrial Waste (IW), Construction & Demolition (C&D) Waste, and Other Wastes made up the remaining 3% of the County’s waste disposal in the reference year. Other Wastes include asbestos, contaminated soils not used as Alternative Daily Cover (ADC), and technologically enhanced naturally occurring radioactive materials (TENORM).

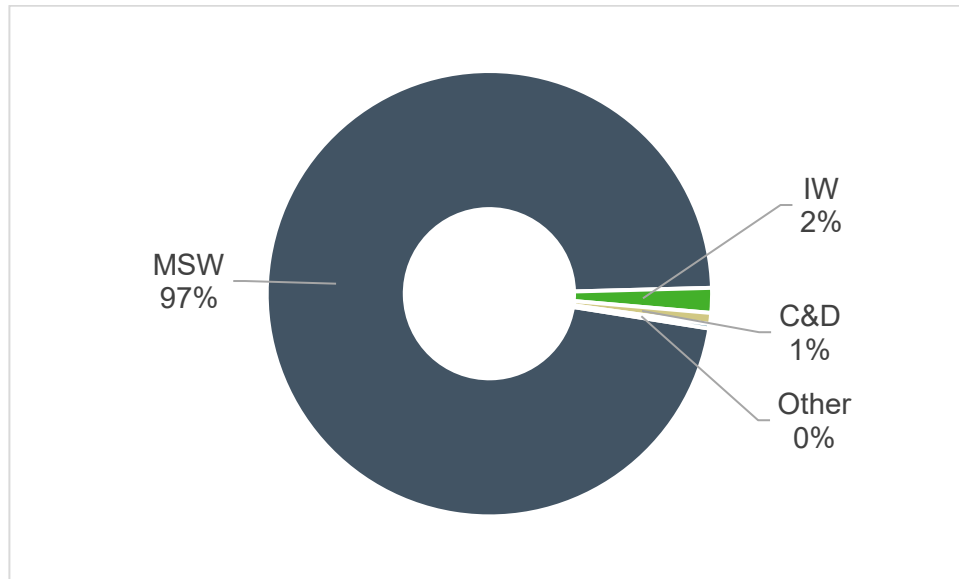


Figure 1-1 Type of Waste Disposed (2023)

Figure 1-2 shows that in 2023, 91% of waste landfilled was disposed within Clinton County its borders.

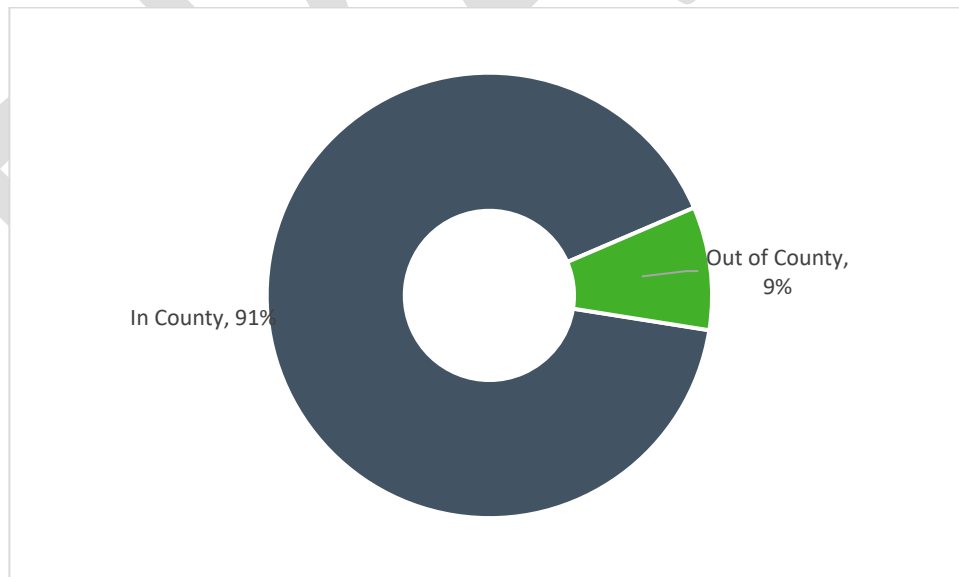


Figure 1-2 Where Waste Disposed (2023)

Granger Waste Services owns and operates the two primary landfills that accept waste from the County: Grand River Avenue and Wood Street Landfills. Approximately 1 ton of MSW was hauled out of state to Hoosier Landfill 2 in Kosciusko County, Indiana in 2023, according to the Indiana Department of

Environmental Management (IDEM)'s 2023 Solid Waste Quarterly Report. Less than 1% of the total overall waste footprint for the County is disposed of out of state.

Table 1-4 Total Waste Disposal (2023)

| Facility Name | Address | MSW (tons) | IW | C&D | Other | Total Disposal |
|---|--|---------------|--------------|------------|------------|----------------|
| Granger Grand River Avenue Landfill | 8550 W. Grand River Hwy Grand Ledge, MI 48837 | 7,066 | 0 | 0 | 0 | 7,066 |
| Granger Wood Street Landfill | 16500 Wood Rd. Lansing, MI 48906 | 53,359 | 0 | 0 | 0 | 53,359 |
| Arbor Hills Landfill Inc. | 10699 W 6 Mile Rd, Northville, MI 468168 | 10 | 58 | 12 | 1 | 81 |
| Brent Run Landfill | 8335 W Vienna Rd., Montrose, MI 48457 | 14 | 0 | 0 | 0 | 14 |
| C&C Expanded Sanitary Landfill | 14800 P Dr N., Marshall, MI 49068 | 29 | 5 | 21 | 0 | 54 |
| Citizens Disposal, Inc. | 2361 W Grand Blanc Rd., Grand Blanc, MI 48439 | 0 | 4 | 99 | 0 | 103 |
| Ottawa County Landfill | 15550 68th Ave., Coopersville, MI 49404 | 0 | 0 | 0 | 0 | 0 |
| Pine Tree Acres, Inc. | 36600 29 Mile Rd., Lenox, MI 48048 | 13 | 0 | 0 | 0 | 13 |
| Pitsch Sanitary Landfill | 7905 Johnson Rd., Belding, MI 48809 | 22 | 0 | 399 | 1 | 422 |
| SC Holdings, Inc. | 1899 N M 43 Hwy, Hastings, MI 49058 | 567 | 414 | 0 | 0 | 981 |
| South Kent Landfill | 10300 South Kent Drive SW, Byron Center, MI 49315 | 0 | 0 | 5 | 0 | 5 |
| Venice Park Recycling & Disposal Facility | 9536 E Lennon Rd., Lennon, MI 48449 | 3,344 | 713 | 0 | 208 | 4,265 |
| Out of State Landfills | | | | | | |
| Hoosier Landfill 2 | 2710 E. 800 South, Claypool, IN 46510 | 1 | 0 | 0 | 0 | 1 |
| Total | | 64,426 | 1,194 | 535 | 209 | 66,364 |

Sources: Michigan EGLE report of Solid Waste Landfill in Michigan Report Period: Fiscal Year 2023, Appendix B
Indiana Department of Environmental Management (IDEM) Solid Waste Quarterly Tonnage Reports, 2023.

1.2.2 Waste Diversion

Total diversion was reported from waste haulers, County programs, and Michigan EGLE. Where possible the County attributes diversion to specific programs as described, and if estimations were used, they are so identified.

Recycling

Clinton County has robust residential recycling programs to manage and divert materials from disposal. As shown in Table 1-5, a total of 3,346 tons of material were diverted in 2023. Drop-off recycling programs reported the highest tonnages of material diversion in the County. . Tables 1-5 and 1-7 include data from the Granger Recycling Center, which includes all recyclables accepted, and may include more than just those from Clinton County residents. Thus, recycling tonnages may be slightly elevated.

Table 1-5 Recycling by Program (2023)

| Program | Tons |
|---|--------------|
| Residential Recycling Drop-off Programs | 1,454 |
| Curbside Programs | 679 |
| Tire Trailer Program | 10 |
| Cell Phone Recycling Program | 0 |
| Household Battery Program | 6 |
| Lead-Acid Batteries Program | 0.10 |
| Ink Jet Cartridge Recycling Program | 0 |
| Polystyrene Recycling Program | 0 |
| TOTAL | 2,149 |

Sources:
 Clinton County DWM reports and flyers, 2023
 Granger Waste Services data

Residential Recycling Drop-off Programs

Clinton County residents have many opportunities and options to recycle, one of which are the rural recycling drop-off sites. The County had access to 10 drop-off recycling sites in 2023: Village of Fowler, Village of Maple Rapids, City of East Lansing, Village of Elsie, Granger Recycling Center (privately operated) Greater Laingsburg Recyclers (non-profit operated), City of Ovid, St. Johns Lions Club (non-profit operated), Watertown Charter Township, and the Village of Westphalia.

As of 2023, The County funded two of these sites: Villages of Fowler and Maple Rapids. These two rural recycling drop-off sites were launched in 1992 with grant funding from Michigan EGLE (formerly the Michigan Department of Environmental Quality). These programs started as once a month drop-off availability but have evolved into 24/7 drop-off access. The County partners with the Villages of Fowler and Maple Rapids to maintain and offset the costs involved with running these sites, including promoting and marketing the sites, managing the recycling vendor contracts, handling public questions about the sites, managing billing and invoices from the recycling contractors, as well as tracking diversion information and reporting annually to the participating municipalities. In 2023, 339 tons were diverted through these rural recycling sites.

Table 1-6 Rural Recycling Drop-off Sites (2023)

| Year | Village of Maple Rapids | Village of Fowler | Total Tons |
|------|-------------------------|-------------------|------------|
| 2023 | 91 | 248 | 339 |

Sources: Clinton County "Final Recycling Options Report for 2023."

In addition to these rural recycling sites, there are eight other drop-off recycling options located in or near the County. Table 1-6 provides a summary of the tonnages recycled at each site.

Table 1-7 Urban Recycling Drop-off Sites (2023)

| Year | St. Johns Lions Club | Watertown Township | Village of Elsie | City of Ovid | Village of Westphalia | Greater Laingsburg Recyclers | City of East Lansing | Granger Recycling Center | Total Tons |
|------|----------------------|--------------------|------------------|--------------|-----------------------|------------------------------|----------------------|--------------------------|------------|
| 2023 | 240 | 329 | 9 | 20 | 16 | 106 | 414 | 1,160 | 2,295 |

Sources: Clinton County "Final Recycling Options Report for 2023."

Curbside Recycling Programs

Curbside recycling is provided to two communities within the County as part of their contracted waste hauling contracts with Granger Waste Services. The Cities of DeWitt and St. Johns both provide regular curbside recycling collection for their residents in 96-gallon carts, for an additional 679 tons of material diverted from disposal in 2023. Other County residents must reach out directly to subscribe with the service provider directly; currently, Republic Services (Jenison and Marshall locations), as well as Waste Management, Granger Companies (Lansing location) and Daggett Container (Lansing) provide household curbside recycling service for a fee. More details on subscription curbside services/haulers are described in Section 1.3.

Table 1-8 Curbside Recycling Programs: Tonnages (2023)

| Municipality | Service Provider | How Service is Provided | Collection Frequency | Materials Collected | Type of Collection | Total Tons |
|-------------------|------------------------|-------------------------|----------------------|---|--------------------|------------|
| City of DeWitt | Granger Waste Services | Contract with Hauler | biweekly | corrugated cardboard; plastic bottles, jugs, tubs, & containers; mixed paper; metal cans & aluminum; boxboard; clear & colored glass bottles & containers | Single-stream | 283 |
| City of St. Johns | Granger Waste Services | Contract with Hauler | biweekly | corrugated cardboard; plastic bottles, jugs, tubs, & containers; mixed paper; metal cans & aluminum; boxboard; clear & colored glass bottles & containers | Single-stream | 396 |
| Total | | | | | | 679 |

Sources: Clinton County "Final Recycling Options Report for 2023." GT Desktop research.

Household Battery Recycling

Clinton County promotes a Battery Bucket Recycling program for County households to drop off batteries for recycling at 10 community locations across the County. Residents may drop off nickel-cadmium, mercuric oxide, button cell, lithium, as well as alkaline/zinc-carbon batteries at these sites. Lead-acid batteries are not accepted at Battery Bucket drop-off locations, but may be recycled in a drop-off box located next to Bee's Sports in St Johns, MI. In 2023, 6 tons of batteries were collected through the Battery Bucket Recycling program from across the County at these combined drop-off locations. An additional 0.10 tons of lead-acid batteries were recycled in 2023.

Clean Community Collection Event Program

DWM hosts annual Clean Community Collection events, usually once in the spring and another in the fall. This event began in the 1990s as a "Dump Your Junk" collection, and has expanded to accept source separated materials for recycling and alternative management. The collection events now collect up to 10 different types of residentially generated materials: household hazardous waste (HHW), used oil, electronic waste, metal, tires, yard waste, miscellaneous waste, as well as commingled recycling. Clinton County has conducted 43 special collections since 2004 (an event was not provided in 2020).

The Spring Collection event is hosted in St. Johns and typically focuses on collecting electronics, HHW, and tires. The Free for Fall event is hosted in Lansing/DeWitt Charter Township, and focuses on the collection of HHW materials, farm chemicals, used oil and antifreeze, medications, electronics, and books.

Both events are open to all Clinton County residents and small businesses, although participants must register prior to the event to receive the drop-off location and a specific appointment time. Most items are accepted for free, however, some items are subject to a disposal or recycling fee. During the collection event, residents are required to remain in their vehicles at all times. In 2023, 27 tons of divertible material were collected at the spring 2023 collection event. A 2023 fall collection event was not hosted.

Table 1-9: Clean Community Collection Event Recycling: Material Tonnages Collected (2023)

| Material | 2023 Tonnages |
|---------------------------|---------------|
| Electronic Waste | 6 |
| Household Hazardous Waste | 10 |
| Tires | 10 |
| Used Oil | 1 |
| Scrap Metal | 0 |
| TOTAL | 27 |

Source: Clinton County DWM reports, 2023.

Tire Trailer Program

Since 2015, Clinton County DWM has utilized the Michigan EGLE Scrap Tire Grant to fund the collection of passenger tires from the community.

Clinton County DWM participates in a regional scrap tire collection program, along with the Counties of Barry and Eaton. Eaton County Resource Recovery acts as the fiduciary for the EGLE Scrap Tire Grant, in partnership with Barry and Clinton Counties. Passenger tires are collected for recycling during Clinton County’s annual Spring Collection recycling event. In 2023, 10 tons of passenger tires were recovered through the mobile tire trailer program (shown in Table 1-4).

Composting

Composting efforts in Clinton County consist primarily of yard waste diversion, as well as wood waste, food waste, compostable products, and food processing residual waste. There are five EGLE-registered composting facilities that reported incoming compostable materials as of 2023. Two of these facilities are located in Clinton County, while the remaining three are located in neighboring Eaton or Ingham counties. All five facilities reported incoming compost material diverted from Clinton County in 2023, as shown in Table 1-10 below. A brief description of each facility is provided below in Section 1.3. It is important to note that Table 1-10 includes all materials accepted at these facilities and does not indicate how much of the incoming material was generated by Clinton County residents, so must be considered an estimate. As such, the material tonnages from Hammond Farms and Granger Waste Services have been removed to avoid overestimation of composting efforts within the County

Table 1-10 Compost Diversion (2023)

| Facility Name | County | State | Yard Waste (TONS) | Wood Waste (TONS) | Food Waste (TONS) | Compost-able Products (TONS) | Food Processing Residuals (TONS) | Total Tons |
|---|---------|-------|---|-------------------|-------------------|------------------------------|----------------------------------|--------------|
| City of DeWitt Cemetery and Composting Area | Clinton | MI | 2,108 | - | - | - | - | 2,108 |
| City of Grand Ledge Recycling and Composting Center | Eaton | MI | 280 | 140 | - | 980 | - | 1,400 |
| Granger Compost Services | Ingham | MI | tonnages excluded from analysis to avoid skewing the estimated Total Generation | | | | | |
| Hammond Farms Landscape Supply | Eaton | MI | tonnages excluded from analysis to avoid skewing the estimated Total Generation | | | | | |
| City of St. Johns Compost Site | Clinton | MI | 4,428 | 1,704 | - | - | - | 6,132 |
| Total | | | 6,817 | 1,844 | 0 | 980 | 0 | 9,640 |

Sources: Michigan EGLE "List of EGLE Registered Composting Facilities" (August 4, 2023)
 Michigan EGLE Waste Data System

Source Reduction

The Garbage Guide: Resale and Donation Opportunities

In addition to the recycling and composting programs mentioned above, Clinton County DWM promotes a wide variety of other source reduction opportunities for its residents and businesses. DWM annually publishes "The Garbage Guide," a comprehensive directory "to help residents of Clinton County manage unwanted household-generated items in the most environmentally responsible manner possible." The Garbage Guide includes a section on local donation options or resale locations.

While tonnages are not collected from these materials, this program is a significant benefit to County residents and is supportive of DWM's efforts to promote a local circular economy and more responsible materials management of all household-generated items. The following material streams, shown in Table 1-11, indicate whether the County offers donation, resale, or both options for unwanted household items.

Table 1-11 Source Reduction Programs

| Material Type | Donation Option | Resale Option |
|-------------------------------|-----------------|---------------|
| Appliances - small | X | |
| Appliances - large | X | X |
| Arts & Crafts Supplies | X | |
| Automobiles | | X |
| Baby Clothes & Equipment | X | |
| Bedding & Linens | X | |
| Bicycles | X | X |
| Books & Audiobooks | X | |
| Cameras & Equipment | X | X |
| Carpets & Rugs | X | |
| Clothing & Accessories | X | X |
| Collectibles & Antiques | X | |
| Electronics & Computers | X | X |
| Eyeglasses & Hearing Aids | X | |
| Food (non-perishable items) | X | |
| Furniture & Household Items | X | |
| Jewelry | X | |
| Kitchen Items | X | |
| Lawn/Garden Equipment & Tools | X | |
| Leather Goods & Luggage | X | |
| Medical Equipment | X | |
| Musical Equipment & Supplies | X | X |
| Office Equipment & Supplies | X | X |
| Personal Care Items | X | |
| Pet Equipment & Supplies | X | |
| Plumbing/Bathroom Fixtures | X | |
| Recreational Vehicles | X | X |
| School Supplies | X | |
| Sewing Machines | X | X |
| Sporting Goods | X | X |
| Tools | X | |
| Toys | X | |

Source: Clinton County DWM "The Garbage Guide"

Educational Programs

The Environmental Educator at Clinton County DWM offers programs and resources that support environmental education programs in both formal and informal learning environments. In 2023, DWM's Environmental Educator participated in five educational programs or events throughout the community. These programs are free of charge to K-12 educators, home school groups, youth groups, and adult

learners alike. As shown in Table 1-12, over 700 individuals were reached through community outreach programs in Clinton County.

Table 1-12 Educational Programs (2023)

| Date | Program | Location | # of Children | # of Adults | Total Program Attendees | Notes |
|--------------|---------------------|-------------------------------|---------------|-------------|-------------------------|---------------------------------|
| 4/21/2023 | Earth Day/Recycling | Schavy Road Elementary School | 290 | 12 | 302 | Grades Pre-K thru 1st |
| 6/1/2023 | Community Showcase | DeWitt High School | 100 | 0 | 100 | |
| 7/19/2023 | Paper Making | Dewitt, DARA | 120 | 10 | 130 | Ages range 6-12 |
| 8/9/2023 | Solar Panels | Dewitt, DARA | 120 | 10 | 130 | |
| 11/2/2023 | Career Fair | DeWitt High School | 100 | 2 | 102 | Targeted 8th grade & 10th grade |
| TOTAL | | | 730 | 34 | 764 | |

Source: Clinton County DWM records, 2023.

Clinton County DWM’s Environmental Educator is also the County contact for EGLE’s Michigan Green Schools program. However, DWM reports that no new Clinton County schools have signed up to participate in a few years, so no program data or analytics are available to provide.

Social Media Outreach: Facebook and Twitter Analytics

Clinton County DWM is also active on Facebook and Twitter platforms, sharing valuable educational resources with the community, including disposal, diversion, and source reduction opportunities. As shown in Table 1-13, over 5,000 County residents engaged with DWM on social media, with an engagement rate of 6% across all social media platforms. Social media continues to be a valuable educational tool for County residents, emphasizing the importance of reaching community members to inform them on how to responsibly manage or reduce materials generation in Clinton County.

Table 1-13 Social Media Analytics: Facebook & Twitter (2023)

| Platform | Total Fans & Followers | New Fans & Followers | Page & Profile Impressions | Post Impressions | Post Reach | Total Posts | Average Post Engagement Rate |
|--------------|------------------------|----------------------|----------------------------|------------------|----------------|-------------|------------------------------|
| Facebook | 5,282 | 1,347 | 942,543 | 946,009 | 838,003 | 129 | 4% |
| Twitter | 46 | 1 | - | 872 | | 44 | 2% |
| TOTAL | 5,328 | 1,348 | 942,543 | 946,881 | 838,003 | 173 | 6% |

SOURCE: Clinton County Hootsuite reports, 2023

1.3 INFRASTRUCTURE

The County’s Department of Waste Management (DWM) follows the U.S. Environmental Protection Agency’s (EPA’s) [Waste Management Hierarchy](#) by managing waste from the most preferred to least preferred options: reduction of waste generated; reuse of resources; recycling and sending materials back into the marketplace; creating electricity via waste-to-energy; and landfilling as a last resort.

Figure 1-3 depicts the U.S. Environmental Protection Agency’s Waste Management Hierarchy. The design is an inverted triangle with the most preferred option of source reduction and reuse at the top, recycling/composting is listed as the second-most preferred, energy recovery is listed as the third-most preferred and the treatment and disposal being the least preferred at the bottom.

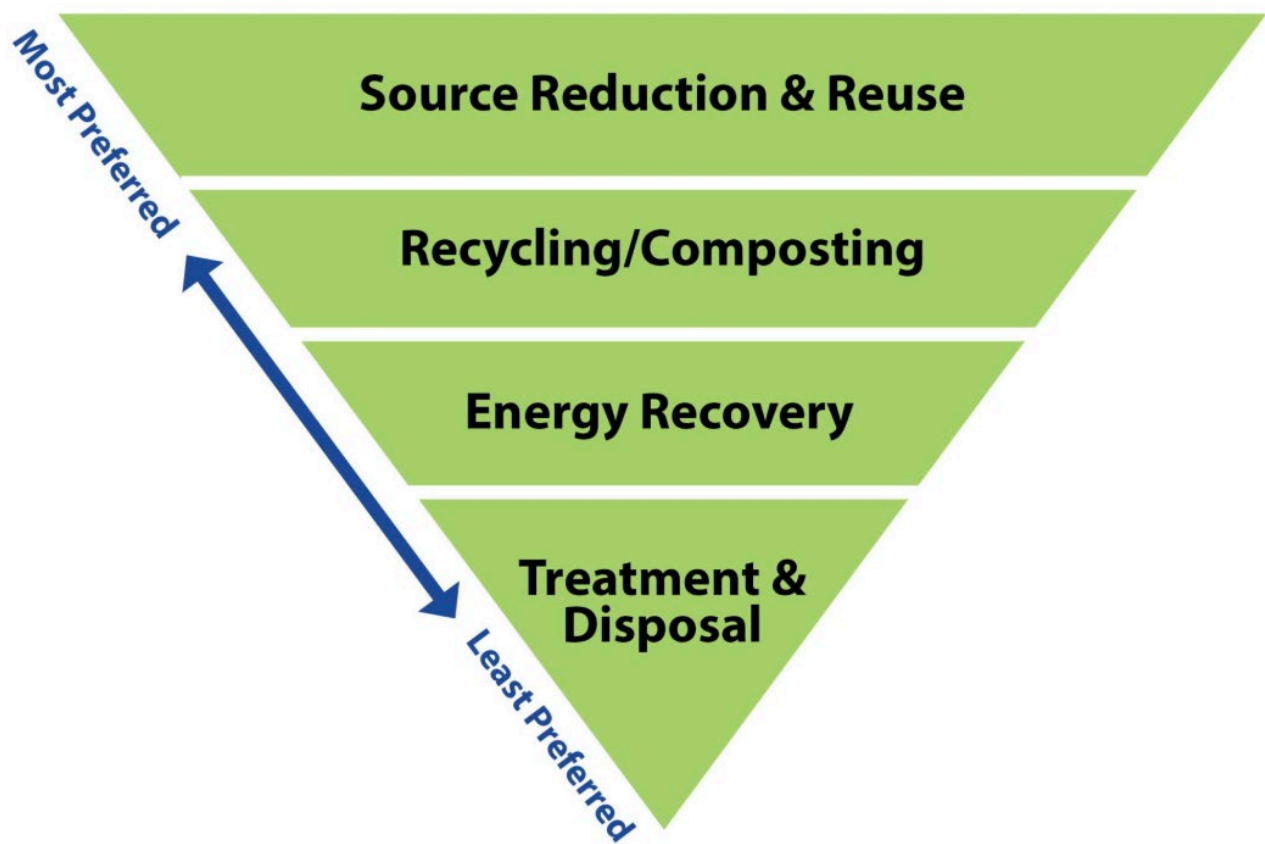


Figure 1-3 US EPA Waste Management Hierarchy

Clinton County operates a robust materials management ecosystem and local infrastructure available to manage many materials generated from the County. The County integrates programs for waste reduction, reuse, recycling, energy recovery, and disposal. Below is an overview of existing disposal areas, material utilization facilities, waste diversion centers, and materials management collection options available to the County. A description of the planned materials management infrastructure is provided.

1.3.1 Disposal Areas

As defined in Part 115, disposal areas include solid waste processing and transfer stations, MSW incinerators, landfills, as well as coal ash impoundments. Clinton County uses landfills and transfer stations to manage waste disposed from the County, as identified in section 1.2 Generation. Table 1-13 provides an overview of the 12 landfills that accepted waste from Clinton County in 2023.

The County projects it will need landfill capacity of approximately 342,000 tons during the five-year planning period. (Note: This includes industry-specific waste, C&D and other disposed in the MSW landfills). This equates to approximately 513,000 cubic yards if one ton of solid waste equals three cubic yards and the compaction ratio is two-to-one. Granger Wood Street Landfill has over 17.7 million cubic yards and Granger Grand River Avenue has over 5.5 million cubic yards of gross airspace. These two landfills alone provide more than enough capacity to manage all of the County’s solid waste during the five-year planning period. The total estimated remaining cubic yard capacity of the landfill is divided by the number of cubic yards landfilled during the previous year, and the resulting number equals the estimated remaining life of each landfill. Landfill volumes can sometimes vary, so these numbers can be viewed as a good approximation and should not necessarily be viewed as absolute.

Table 1-14 In-State Landfills

| Facility Name | Address | Description of the materials managed | Total area permitted (acres) | Total authorized capacity of the facility (cubic yards) | Total authorized capacity of the facility (tons) | Remaining Capacity (Cubic Yards) | Projected Years of Remaining Capacity |
|-------------------------------------|--|--------------------------------------|------------------------------|---|--|----------------------------------|---------------------------------------|
| Granger Grand River Avenue Landfill | 8550 W. Grand River Hwy, Grand Ledge, MI 48837 | MSW, IW, C&D, Other, ADC | 86 | 14,497,900 | 20,297,060 | 5,598,214 | 36 |
| Granger Wood Street Landfill | 16500 Wood Rd. Lansing, MI 48906 | MSW, IW, C&D, Other, ADC | 242 | 897,850 | 1,256,990 | 17,755,031 | 38 |
| Arbor Hills Landfill Inc. | 10699 W 6 Mile Rd, Northville, MI 468168 | MSW, IW, C&D, Other, ADC | 295 | 62,730,000 | 87,822,000 | 9,775,677 | 6 |
| Brent Run Landfill | 8335 W Vienna Rd., Montrose, MI 48457 | MSW, IW, C&D, Other, ADC | 155 | 33,279,231 | 46,590,923 | 12,987,613 | 30 |
| C&C Expanded Sanitary Landfill | 14800 P Dr N., Marshall, MI 49068 | MSW, IW, C&D, Other, ADC | 307 | 54,728,830 | 76,620,362 | 40,145,164 | 62 |
| Citizens Disposal, Inc. | 2361 W Grand Blanc Rd., Grand Blanc, MI 48439 | MSW, IW, C&D, Other, ADC | 109 | 17,400,000 | 24,360,000 | 5,026,285 | 11 |
| Ottawa County Landfill | 15550 68th Ave., Coopersville, MI 49404 | MSW, IW, C&D, Other, ADC | 242 | 56,975,000 | 79,765,000 | 30,819,448 | 42 |
| Pine Tree Acres, Inc. | 36600 29 Mile Rd., Lenox, MI 48048 | MSW, IW, C&D, Other, ADC | 377 | 89,694,904 | 125,572,866 | 29,404,311 | 9 |
| Pitsch Sanitary Landfill | 7905 Johnson Rd., Belding, MI 48809 | MSW, IW, C&D, Other, ADC | 70 | 6,480,000 | 9,072,000 | 1,285,583 | 18 |

| Facility Name | Address | Description of the materials managed | Total area permitted (acres) | Total authorized capacity of the facility (cubic yards) | Total authorized capacity of the facility (tons) | Remaining Capacity (Cubic Yards) | Projected Years of Remaining Capacity |
|---|---|--------------------------------------|------------------------------|---|--|----------------------------------|---------------------------------------|
| Granger Grand River Avenue Landfill | 8550 W. Grand River Hwy, Grand Ledge, MI 48837 | MSW, IW, C&D, Other, ADC | 86 | 14,497,900 | 20,297,060 | 5,598,214 | 36 |
| SC Holdings, Inc. | 1899 N M 43 Hwy, Hastings, MI 49058 | MSW, IW, C&D, Other, ADC | 48 | 4,384,000 | 6,137,600 | 1,666,896 | 30 |
| South Kent Landfill | 10300 South Kent Drive SW, Byron Center, MI 49315 | MSW, IW, C&D, Other, ADC | 152 | 16,116,321 | 22,562,849 | 3,125,662 | 6 |
| Venice Park Recycling & Disposal Facility | 9536 E Lennon Rd., Lennon, MI 48449 | MSW, IW, C&D, Other, ADC | 147 | 20,860,000 | 29,204,000 | 6,486,753 | 17 |
| Total | - | - | 2,229 | 378,044,036 | 529,261,650 | 164,076,637 | 305 |

There are currently no permitted transfer stations within Clinton County, although waste may be transferred or processed in neighboring Gratiot, Ingham, Montcalm, and/or Shiawassee Counties (Table 1-14). Given the current capacity of the County’s landfills and nearby transfer stations, transfer stations are not a management system needed within the County at this time.

Table 1-15 Nearby Processing and Transfer Facilities.

| Facility Name | Address | Description of the materials managed | Total area permitted (acres) | Total authorized capacity of the facility (cubic yards) | Total authorized capacity of the facility (tons) | Remaining Capacity (Cubic Yards) | Projected Years of Remaining Capacity |
|---|--|--------------------------------------|------------------------------|---|--|----------------------------------|---------------------------------------|
| Ingham County Transfer Station | 2450 Grand River Rd. Williamston, MI 48895 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Daggett Processing And Recycling Ts | 1010 E Sheridan Rd., Lansing, MI 48906 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Venice Park Recycling & Disposal Facility | 9536 E Lennon Rd., Lennon, MI 48449 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Granger Disposal Center Of Alma | 2355 Michigan Ave., Alma, MI 48801 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Greenville Transfer Station | 1415 Shearer Rd., Greenville, MI 48838 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Lansing Recycling | 5507 S Cedar St., Lansing, MI 48911 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Meridian Township Transfer Station | 5976 Lake Dr., Haslett, MI 48840 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| City Of Morrice | 1470 W. Britton Road Morrice, MI 48857 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |

Sources: Michigan EGLE ArcGIS Map “Michigan Solid Waste Processing Facilities and Transfer Stations.” Michigan EGLE Waste Data System.

1.3.2 Material Utilization Facilities

Part 115 defines material utilization facilities as materials recovery facilities (MRFs), composting facilities, anaerobic digesters, and other innovative technology facilities. Clinton County utilizes a variety of materials utilization facilities to manage and process diverted waste, primarily MRFs and Composting Facilities. Currently, there are no anaerobic digesters or other innovative technology facilities utilized by Clinton County.

Materials Recovery Facilities (MRFs)

Materials generated from Clinton County, if received by Granger Waste Services, are sent to the following Material Recovery Facilities (MRFs). According to Granger, the majority of materials stay locally, sent to Emterra in Lansing. However, depending on the price for receiving and processing materials, collected materials from the County may be shipped further from the County.

Table 1-16 Material Recovery Facilities (MRFs)

| Facility Name | Address | Description of the materials managed | Total area permitted (acres) | Total authorized capacity of the facility (cubic yards) | Total authorized capacity of the facility (tons) | Remaining Capacity (Cubic Yards) | Projected Years of Remaining Capacity |
|--|--|--------------------------------------|------------------------------|---|--|----------------------------------|---------------------------------------|
| Emterra Environmental USA (Lansing) | 1159 S. Pennsylvania, Lansing, MI 48912 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Granger | 16936 Wood Rd., Lansing, MI 48906 | Recycling | n/a | n/a | n/a | n/a | n/a |
| GFL MRF (Traverse City) | 2294 Cass Rd., Traverse City, MI 49684 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |
| Kent County Recycling & Education Center | 977 Wealthy Street Southwest, Grand Rapids, MI 49504 | MSW, Recycling | n/a | n/a | n/a | n/a | n/a |

Sources: Michigan EGLE ArcGIS Map "Michigan Materials Management Facilities."
 Granger Waste Services phone call, 2025.

Composting Facilities

There are five composting facilities/sites receiving materials from Clinton County. Below is a brief description of the five facilities, as well as the tonnages reported in the Michigan EGLE Waste Data System for 2023.

- *City of St. Johns Compost Site*

The City of St. Johns offers free compost from collected leaf and yard waste to residents at the DPW facilities. Residents must load and provide their own containers at the compost site. The

compost site only accepts leaves, yard waste, and brush at the facility, which is open 24/7 for residential drop-off.

- *City of DeWitt Cemetery and Composting Area*

The City of DeWitt provides weekly seasonal yard waste collection at the curb, as part of Granger's seasonal yard waste program. Granger collects yard waste every Wednesday from April through November to DeWitt residents. Residents may use their own yard waste containers up to 32 gallons in size or purchase brown paper compost yard waste bags. Each yard waste container must weigh no more than 50 lbs when full.

The City of DeWitt provides seasonal yard waste collection every week from April through November, with hauling service provided by Granger Waste Services. Residents may fill their own containers up to 32 gallons or less, or purchase brown paper compost yard waste bags, filled with brush and tree trimmings. The DeWitt Compost site accepted 2,108 tons of yard waste materials in 2023 at their site.

- *City of Grand Ledge Compost Center*

The City of Grand Ledge, located over the border in Eaton County, operates a municipally-owned Recycling & Compost Center April through December annually. They are open to the public twice a week on Wednesdays and Saturdays. Residential users of the Compost Center must purchase an annual vehicle pass at Grand Ledge City hall, using a valid drivers license. The Compost Center is primarily reserved for residential use and processing, but non-residents must purchase an annual vehicle pass for \$225. It is possible that Clinton County residents living on the southwestern side of the County access this site to manage their yard waste materials.

In addition to yard trimmings, the City of Grand Ledge also accepts wood waste and compostable materials at its facility from both the residential and commercial sectors. The Grand Ledge Compost Center requires users to purchase an annual vehicle pass from the Grand Ledge City Hall. The Center is open to everyone, although non-Grand Ledge Residents pay a significantly higher vehicle pass fee. A total of 1,400 tons of compostable yard trimmings, wood waste, and compostable products were accepted in 2023.

- *Granger Compost Services*

Granger Waste Services, in addition to operating landfills and hauling waste and recycling in the area, operates Granger Compost Services. Located over the border in Ingham County, Granger accepts self-hauled yard waste materials from both residents and commercial businesses. Granger also provides limited curbside yard waste collection service to residents in a small service region.

Granger does provide curbside yard waste service to select communities across Michigan, including Grand Ledge. However, the materials collected for processing at the Granger Compost Services site are likely inclusive of both residential and commercial materials. In 2023, a total of 38,955 tons of yard trimmings were accepted on-site.

- *Hammond Farms Landscape Supply*

Hammond Farms Landscape Supply is another option for Clinton County residents to compost yard waste. They offer convenient self-haul yard waste drop-off at their DeWitt location for a small

fee. Yard waste can be self-hauled in a 30-gallon paper bag and is charged by material type and per yard.

Currently, Hammond Farms is the only EGLE-registered facility that accepted food waste and food processing residuals as of 2023. Residents of DeWitt, East Lansing, Grand Ledge, and Mason may drop-off yard waste for a small fee.

In addition to yard waste, Hammond Farms has a partner company, MyGreen Michigan, to haul food waste materials back to their processing site. Currently, curbside and drop-off food waste services are not available to Clinton County residents. Hammond Farms also partners with My Green Michigan to process food waste compost materials from a limited service area in mid-Michigan. Residents of the City of Lansing currently have access to food waste compost drop-off through MyGREEN Michigan, but this service has not yet expanded into Clinton County. Residents may contact MyGREEN Michigan for more details on subscribing to food waste composting and/or interest in participating in food waste drop-off programs. Hammond Farms accepted the largest amount of material from Clinton County in 2023, for a total of 153,363 tons of mixed materials.

Table 1-17 Composting Facilities

| Facility Name | Address | Description of the materials managed |
|---|---|--|
| City of DeWitt Cemetery and Composting Area | 780 N. Bridge St., DeWitt, MI 48820 | yard clippings |
| City of St. Johns Compost Site | Department of Public Works, 1000 North BR US 127, St. Johns, MI 48879 | yard clippings, wood waste. Please use the Kuntz Drive Entrance. Facility is open 24/7. |
| Hammond Farms Landscape Supply | 1070 W Clark Rd., DeWitt, MI 48820 | brush, leaves, grass clippings, brush chips, logs, soil, sod. Please note we do not accept non-organic materials such as trash, lumber, landscape timbers, glass, plastic, concrete, metal, or stones. |
| City of Grand Ledge Recycling and Composting Center | 401 Whitney St., Grand Ledge, MI 48837 | paper lawn bags, shrub and hedge clippings, leaves, grass clippings, weeds, garden waste. Limbs and branches smaller than 8 inches in diameter accepted. |
| Granger Compost Services | 16800 Wood St., Lansing, MI 48906 | leaves, grass, brush, tree trimmings. Brush and trees can be up to 15 inches in diameter and 8 feet in length. Loose dirt must be removed from sod. |

Sources:
 Michigan EGLE "List of EGLE Registered Composting Facilities" (August 4, 2023)
 Michigan EGLE Waste Data System
 Michigan EGLE "Composting and Organics Management" PDF
 GT Environmental online research, spring 2025.

Anaerobic Digesters

There are no anaerobic digesters currently accepting waste from Clinton County.

Waste Diversion Centers

Clinton County DWM, as described in Section 1.2 Generation, provides an extensive “Garbage Guide” with comprehensive information on where residents can divert unwanted items and manage their materials responsibly. Below is a brief description of the programs that DWM promotes.

- *Mercury Thermometers*

One program is a mercury thermometer exchange. Any resident of the County can pick up a free mercury-free digital fever thermometers for free at their St. Johns office.

- *Tires*

Clinton County also sponsors annual tire collection through a tire trailer program, in partnership with Eaton County. Clinton County has participated in EGLE’s tire grant program since 2015, and the only cost to DWM is the volunteer time, grant coordination with Eaton County, as well as Clinton County’s community outreach. Eaton County is the fiduciary for the annual tire grant

- *Sharps*

Clinton County provides empty sharps collection containers to three local pharmacies. No data on the weight or number of sharps collected is available, however, this is another program that demonstrates DWM’s commitment to providing safe disposal options to the local community.

- *Medicine Disposal*

The County also offers year-round medication drop boxes at six locations: the County Sheriff’s Department, Clinton Pharmacy, Meijer Dewitt Pharmacy, as well as three police departments (Bath Charter Township, Village of Elsie, and City of St. Johns). Residents are encouraged to dispose of both prescription and over-the-counter medications at these six locations, or during the annual Clean Community collection events hosted in the spring and fall.

Materials Management Collection Options

The Clinton County Department of Waste Management (DWM) provides and facilitates a variety of materials management collection options for County residents to divert and responsibly manage many traditional and unique waste streams.

- *Community Programs*

As described in Section 1.2 Generation, Clinton County Department of Waste Management offers many community programs to divert materials from disposal or support appropriate disposal of materials that cannot be recycled. This section is a brief overview of the programs not already described above in Section 1.2 Generation.

- *Collection Events*

Clinton County DWM sponsors two annual special collection events in the spring and fall to help County residents manage specialty waste streams such as household hazardous waste, motor oil, antifreeze, unwanted/expired medications, as well as electronic waste such as TVs and computers. The spring collection event also accepts waste car tires from residents for recycling. These annual Clean Community Events have been organized by DWM since 1999, and have diverted over 2,000 tons of material from over 18,000 Clinton County households as of 2024.

- *Haulers*

Clinton County is serviced by five waste haulers: Republic Services (Jenison and Marshall locations), Granger Companies (Lansing), Daggett Container (Lansing), and Waste Management. As shown in Table 1-18, currently only Granger provides curbside recycling service to a portion of the County. Curbside trash service is provided to all County residents, regardless of their chosen hauler. For recycling, if curbside is unavailable in their area, residents must drop-off items at a local recycling site in the County.

Table 1-18: Waste and Recycling Haulers in Clinton County

| Hauler Name | Service Provided | How Service is Provided | Collection Frequency | Materials Collected | Type of Collection | PAYT (Y/N) |
|------------------------------|---|-------------------------|---------------------------------------|--|---------------------|------------|
| Republic Services (Jenison) | Trash | Contract with Hauler | weekly | All household waste items, excluding specialty waste items and yard waste | Single-stream carts | N |
| Republic Services (Marshall) | Trash | Contract with Hauler | weekly | All household waste items, excluding specialty waste items and yard waste | Single-stream carts | N |
| Granger Companies (Lansing) | Trash (T), Recycling (R), Yard Waste (YW) | Contract with Hauler | weekly (T), biweekly (R), weekly (YW) | All household waste items, excluding specialty waste items and yard waste (T) Corrugated cardboard, plastic, mixed paper, metal cans, foil, boxboard. Glass accepted only in greater Lansing area. Curbside service not yet available in all areas of County. (R) Curbside yard waste collection service available April to November for select County households. Curbside and bagged material accepted. (YW) | Single-stream carts | N |
| Daggett Container (Lansing) | Trash | Contract with Hauler | weekly | All household waste items, excluding specialty waste items and yard waste (T) Corrugated cardboard, plastic, mixed paper, metal cans, foil, boxboard. Glass accepted only in greater Lansing area. Curbside service not yet available in all areas of County. (R) | Single-stream carts | N |
| Waste Management, Inc. | Trash | Contract with Hauler | weekly | All household waste items, excluding specialty waste items and yard waste (T) Corrugated cardboard, plastic, mixed paper, metal cans, foil, boxboard. Glass accepted only in greater Lansing area. Curbside service not yet available in all areas of County. (R) | Single-stream carts | N |

Sources: Clinton County DWM "The Garbage Guide."
 GT Environmental online research, spring 2025.

- *Drop-off Recycling Facilities*

Clinton County residents have access to nine drop-off recycling locations in and around the County. Two of these sites are supported financially and administratively by DWM, while the remaining seven sites are sites managed directly by municipalities or nonprofit management and staffing. The City of Ovid closed its permanent recycling drop-off sites in March 2023 due to chronic contamination and illegal dumping issues. This site was managed by the City, located across the street from the municipal building and was accessible 24/7 for residential drop-off. The City of Ovid has put recycling collection on hold for the time being.

Table 1-19: Clinton County Drop-off Recycling Facilities

| Facility Name | Address | Description of the Materials Managed | Processes for Handling Materials at the Facility |
|------------------------------|--|--|--|
| Rural | | | |
| Village of Fowler | 10801 North Drive, Fowler, MI 48835 | glass bottles & jars only; metal cans; aluminum; #1 & #2 plastic bottles & jars; ONP & Inserts (do not bundle); phone books; office & household papers; brown paper bags; OCC; boxboard; OMG Please remove all caps & lids. no motor oil containers, clamshells, or plastic bags | Self-serve Drop-off 24 hours behind Fowler DPW building. |
| Village of Maple Rapids | 209 West Union Street, Maple Rapids, MI 48853 | Glass bottles & jars only; Metal Cans; Aluminum; #1 & #2 Plastic Bottles & Jugs; Please remove all caps & lids, No motor oil containers, NO clamshells, NO plastic bags; ONP & Inserts - Do not bundle; Phone Books; Office & Household Papers; Brown Paper Bags; OCC; Boxboard; OMG | Self-serve Drop-off 24 hours. |
| Urban Drop-off Sites | | | |
| City of East Lansing | DPW Building 1800 E. State Rd., East Lansing, MI 48823 | clear, green & brown glass bottles & jars only; metal cans; aluminum, #1 & #2 plastic bottles & jugs; Please remove all caps & lids, not motor oil containers; ONP & inserts, OMG; Mixed paper: phone books; brown paper bags; OCC; boxboard. Also accepting CFL light bulbs & rechargeable batteries in the DPW office, E. Lansing City Hall, & Hannah Community Center during normal business hours. | Self-serve Drop-off 24 hours at DPW Building. |
| Village of Elsie | 125 W. Main St., Elsie, MI 48831 | metal cans, #1 & #2 plastic bottles & jugs, Onp & inserts, OMG, mixed household papers, brown paper bags, OCC, boxboard. NO glass, plastic bags, or motor oil containers. Please remove all caps & lids. | 4th full weekend of each month - Elsie, Duplain, & Fairfield Twp residents only. |
| Granger Recycling Center | 16936 Wood Rd., Lansing, MI 48906 | Clear & Brown Glass bottles & jars only; Metal Cans; Aluminum; #1 & #2 Plastic Bottles & Jugs; Please remove all caps & lids, No motor oil containers; ONP & Inserts; Brown Paper Bags; OMG & Glossy Catalogs; OCC; Boxboard; No wax coated boxes or cartons; No Aerosols, plastic bags, foam, scrap metal, or bulky/rigid plastic. www.grangernet.com/drop-off-recycling/ | Self-serve Drop-off 24 hours. |
| Greater Laingsburg Recyclers | 7500 Woodbury Road, Laingsburg, MI 48848 | Glass bottles & jars only; Metal Cans; Aluminum; Scrap Metal (no freon), Plastic Bottles, Jugs & Tubs sorted #1 #2 & #5; Please remove all caps & lids, No motor oil containers, NO clamshells, NO plastic bags; ONP & inserts; Phonebooks; White & Colored Office Paper; OCC; Brown paper bags; OMG; Household Batteries; Computers & Electronics – No monitors or televisions. | Drop Off 9am - 1pm Two Saturdays per month & 4pm – 6pm two Tuesdays per month (call for dates). Cost: \$3 donation, please |

| Facility Name | Address | Description of the Materials Managed | Processes for Handling Materials at the Facility |
|---------------------------------------|--|---|---|
| St. Johns Lions Club Recycling Center | 605 N. Swegles Street, St. Johns, MI 48879 | Metal Cans; Aluminum; HDPE #2 Plastic Bottles & Jugs - Must have seam on bottom and sides; No motor oil containers or aerosol cans; PETE #1 – Bottles & jars such as mixed liquor, water/sport drinks, edible oil, etc.; PP #5-prescription bottles & yogurt cups; ONP & Inserts – Do not put newspapers in plastic bags; OMG & Glossy Catalogs; Brown Paper Bags; OCC; Boxboard; Phone Books; Office & Household Papers; Polystyrene Foam #6 foam only NO peanuts, NO insulation sheets. | Self-serve Drop-off 24 hours Monday to Friday ONLY - NO weekends. Donations appreciated. |
| Watertown Township | Township Hall 12803 S. Wacousta Rd., Grand Ledge, MI 48837 | Glass bottles & jars only; Metal Cans; Aluminum; #1 & #2 Plastic Bottles & Jugs; Please remove all caps & lids, No motor oil containers, NO clamshells, NO plastic bags; OMG & Catalogs; ONP & Inserts; Brown Paper Bags; OCC; NO Phonebooks. Household batteries & cell phones may be dropped off inside the hall during normal business hours. | Self-serve Drop-off 24 hours. |
| Village of Westphalia | 200 North Willow Street, Westphalia, MI 48894 | Metal Cans; #1 & #2 Plastic Bottles & Jugs; Please remove all caps & lids, NO motor oil containers, NO Clamshells, NO plastic bags, NO foam; ONP & Inserts; OMG; Mixed Household Papers; Brown Paper Bags OCC; Boxboard. NO glass or plastic bags! | First Full Weekend & Third Weekend of Each Month. Behind the Village Hall Saturday - Monday |

Sources: Clinton County DWM data “Final Recycling Options Report for 2023 Appendix A Where to Recycle in Clinton County”

- *Rural Recycling Program: Villages of Fowler and Maple Rapids*

Clinton County currently operates two rural recycling drop-off sites. Four drop-off sites in Fowler, Maple Rapids, Eagle, and Pewamo-Westphalia were originally developed in 1992 with the help of a grant from the Michigan Department of Environmental Quality and Clinton County Department of Waste Management. These sites operated as a monthly drop-off and eventually evolved into a 24/7 drop-off site. The Eagle site closed in March 2012 soon followed by the closure of the Pewamo-Westphalia site in May 2014.

The County partners with the Villages of Fowler and Maple Rapids, as well as Lebanon and Dallas Townships, to maintain and offset hauling costs associated with the two remaining Rural Recycling drop-off sites: Fowler and Maple Rapids. Three municipalities utilize Public Act 69 to charge residents \$15 per household per year, while the fourth participating municipality utilizes its general fund monies to support the site. Chronic contamination and illegal dumping issues plague these drop-off sites, so additional outreach and education continue to be necessary to support the maintenance of these valuable Rural Recycling drop-off facilities. Additional Public Act 69 funding may be explored during the Planning Period to support expanding recycling access for all County residents. Changes to drop-off sites will be explored in Section 2 of the Materials Management Plan.

- *Urban Recycling Site: St. Johns Lions Club*

The St. Johns Lions Club established a permanent drop-off recycling center as a community service project in the early 1990s, in partnership with DWM. DWM provides funding to support general recycling operations at the facility, as well as to fund management of the collection of polystyrene. Currently, St. Johns Lions Club is the only facility in the County that can accept

polystyrene for recycling. The Lions Club receives additional funding support from Bingham, Bengal, Greenbush, Essex, Olive, and Riley Townships.

- *Urban Recycling Site: Watertown Township*

Located in Wacousta, Watertown Township provides a 24/7 recycling drop-off site similar to the Rural Recycling Sites describe above. Granger Companies provides this drop-off recycling service free of charge to the Township as part of their landfill host agreement. As of spring 2025, Watertown Township is exploring other recycling options with Granger to serve residents. Contamination issues plague this drop-off site, so the Township is interested in considering other alternatives to provide recycling access locally.

- *Urban Recycling Site: Village of Elsie*

The Village of Elsie, in partnership with Duplain Township in Clinton County and Fairfield Township in Shiawassee County, provides once-a-month recycling collection for its residents. The monthly recycling collection is held on the fourth full weekend of each month and is held behind the fire department. The Village manages the recycling contract and oversees collection bins directly.

- *Urban Recycling Site: Village of Westphalia*

The village of Westphalia started a twice-monthly recycling collection during the first and third full weekends of each month, after leaving the Rural Recycling Site program in May 2014. The Village manages the recycling contract directly, and residents have done a better job of limiting contamination since the Village switched its recycling service collection model.

- *Urban Recycling Site: Greater Laingsburg Recyclers*

Greater Laingsburg Recyclers (GLR) is an all-volunteer nonprofit organization providing weekly drop-off recycling collection for area residents. GLR provides both commercial and residential recycling services, operating on a donation-based model in addition to commercial subscription services and resale of certain items. GLR collects household batteries, inkjet and printer cartridges, Brita water filters, dental products, and denim for specialty recycling. Reusable items can also be donated to GLR for free, including egg cartons, books and other miscellaneous items.

- *Urban Recycling Site: City of East Lansing*

The City of East Lansing's Department of Public Works runs a 24/7 drop-off recycling site, utilized by both Ingham and Clinton County residents. East Lansing funds this site through their Solid Waste Fund (funded by property taxes) and material rebates, when available. The drop-off site has expanded through grant-funded improvements in recent years, including installing compactors to expand capacity and sharing new educational resources with users.

- *Urban Recycling Site: Granger Recycling Center/DeWitt Township*

Granger's Recycling Center is located in DeWitt Township and accepts many recyclable items year-round, free of charge, from all area residents. This recycling center is open 24/7.

1.4 Municipal Solid Waste Recycling Rate

The MSW Recycling Rate is defined in MCL Section 324.11578(1)(k) and 324.11504(38) as the amount of MSW recycled or composted divided by the amount of MSW generated (including recycled, composted, landfilled, or incinerated materials).

Michigan's statewide goal is to achieve a 30% recycling rate by 2029, and estimates a 25% recycling rate statewide as of April 2025 according to the latest EGLE analysis. The County's estimated MSW Recycling Rate as of the 2023 reference year is 16%.

The MSW Recycling Rate is based on the available and estimated MSW disposal and diversion tonnages described above in sections 1.1 through 1.3. It is important to note that this MSW Recycling Rate is an estimation, and may not include all or may overestimate diverted or generated materials due to gaps in available existing data.

DRAFT

Section Two: Materials Management Goals

Overview

The purpose of this Section is to develop specific, measurable, and objective goals for Clinton County to work towards during the 2027 – 2031 planning period, focused on increasing diversion from disposal areas. This Section of the Materials Management Plan describes Clinton County’s efforts to increase its MSW Recycling Rate, demonstrate how the County meets the benchmark recycling standards laid out in Part 115, as well as addressing other material utilization and reduction activities identified within the MMP.

This Section will describe the steps taken to determine Clinton County’s goals during the 2025 Gap Analysis, Goal Setting, and Stakeholder Engagement process facilitated by GT Environmental. Each goal includes an implementation strategy, description of the resources needed, as well as an implementation timetable for tackling each goal.

Getting to Goals: Gap Analysis and Stakeholder Engagement Process

GT Environmental conducted a Gap Analysis for the Clinton County Department of Waste Management in summer 2025. The Gap Analysis reviewed seven waste prevention and diversion action areas across the County’s waste management system: Prevention & Reuse, Collection, Processing, End Markets, Partnerships, Policy, and Education & Outreach. These gaps in the County’s system were then reviewed at the August 12, 2025 MMPC and Stakeholder Engagement meetings. The full Gap Analysis document can be found in Appendix **XX**.



The Gap Analysis identified that the weakest action areas were Partnerships, Policy, and Prevention & Reuse. The results from the Gap Analysis were used to set Vision Statements for the County’s Materials Management, which were reviewed at the first Stakeholder Engagement meeting on August 12, 2025. Following the August 2025 meetings, a public survey was released to gather community feedback on draft goals, as well as pain points in Clinton County’s programs.

Feedback from the August 2025 Stakeholder Engagement, Gap Analysis, and baseline data from Section One of the MMP were used to identify draft MMP goals. The results from both Stakeholder Engagement Meetings and the Community Survey can be found in Appendix **XX**.



2.1 Clinton County's 2027 – 2031 Goals

During the October 14, 2025 MMPC and Stakeholder meetings, GT facilitated a goal setting exercise to help the Committee determine which key areas to focus on improving during the five-year planning period. The MMPC and interested Stakeholders refined and identified the following Goals for the County:

1. Clinton County will divert an additional 10% of organic materials from disposal by 2031 over the 2023 baseline.
2. By 2031, more than 90% of Clinton County residents have access to recycling programs, either through curbside or drop-off infrastructure.
3. By 2031, Clinton County will continue to divert specialty materials such as household hazardous waste (HHW) through annual events such as the twice annual collection events.
4. By 2031, Clinton County has new policies and partnerships in place that increase overall diversion by 10% over the 2023 baseline.
5. By 2031, Clinton County has a clear process in place to manage debris and successfully diverts 25% of materials generated during disasters or emergencies, including Construction & Demolition Debris and organic materials.
6. By 2031, Clinton County annually spends at least \$1.50 per single-family household on materials management education, outreach, and programming.

All six goals have been refined through discussions with the Clinton County Department of Waste Management (DWM) and the Materials Management Planning Committee (MMPC). A description of each goal and recommended next steps can be found below in 2.2 Implementation Strategy.

2.2 Implementation Strategy

The following implementation strategy is built for Clinton County to use as a roadmap during the five-year planning period, to demonstrate measurable progress towards their materials management goals.

Goal 1: 10% Increase in Organics Diversion

Goal #1 Clinton County will divert an additional 10% of organic materials from disposal by 2031 over the 2023 baseline.

Description: Part 115 and EGLE guidance require the County to reduce the amount of organic material being disposed of through food waste reduction, composting, and/or anerobic digestion. Yard waste programs are robust in Clinton County, but food waste infrastructure is lacking.

Resources Needed:

Clinton County does not intend to develop any additional materials utilization facilities during the five-year planning period in support of this goal.

Instead, DWM and the MMPC will work together to promote food waste reduction and composting activities for residents and businesses. The following resources are needed for this effort to be successful.

Table 2-1. Goal One Resources Needed

| County Resources Needed | Community Resources Needed |
|--|--|
| Partnerships | Education |
| Funding | Outreach opportunities |
| Educational/outreach materials | Access to composting infrastructure |
| Reliable data | Public support of County composting and food waste reduction initiatives (nonprofits, schools, etc.) |
| List of subject matter experts to speak on food waste reduction in Clinton | |

Education and Outreach Programs: Clinton County DWM’s Education Coordinator will continue offering existing education and outreach programs, as described in Section One of this Plan. In addition, the Education Coordinator will

Goal #1 Action Steps

The MMPC and Stakeholders outlined and ranked the following action steps from highest to lowest priority for the County to pursue over the next five years:

1. Launch education and outreach campaign on backyard composting through local library system.
2. Expand existing yard waste composting sites to accept food waste materials.
3. Promote food rescue efforts of Food Rescue - Lansing Communities.
4. Pilot a community composting program through partnership with local municipalities and/or haulers.
5. Develop County siting criteria that encourages new and strengthens existing compost facility infrastructure.
6. Encourage local food establishments to compost or divert food waste.

Goal #1 Implementation Timetable: Activities will be implemented through the five-year planning period. See **Table 2-2** for an overview of all planned Action Steps for Goal #1.

Table 2-2 2027 – 2031 Implementation Timetable for Goal #1 10% Increase in Organics Diversion

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|---|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Launch education and outreach campaign on backyard composting through local library system. | | | X | X | X | X | | | | | | | | | | |

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Expand existing yard waste composting sites to accept food waste materials. | | | | | | | X | X | X | X | | | | | | |
| Promote food rescue efforts of Food Rescue - Lansing Communities. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Pilot a community composting program through partnership with local municipalities and/or haulers. | | | | | | | X | X | X | X | | | | | | |
| Develop County siting criteria that encourages new and strengthens existing compost facility infrastructure. | X | X | | | | | | | | | | | | | | |
| Encourage local food establishments to compost or divert food waste. | | | | | | | | | | | X | X | X | X | | |

Goal 2: Recycling Access / Benchmark Recycling Standard

Goal #2 By 2031, more than 90% of Clinton County residents have access to recycling programs, either through curbside or drop-off infrastructure.

Description: Part 115 and EGLE guidance require the County to meet a minimum access requirement, referred to as “benchmark recycling standards,” during the five-year planning period. There are three main benchmarks that the County must demonstrate progress towards during the five-year planning period.

- By January 1, 2026, at least 90% of single-family households in urban areas as identified by the most recent federal decennial Census must have access to a curbside recycling program. The program must collect one or more recyclable materials at least twice monthly, and access to curbside can either be provided by the municipality, or the residents may subscribe to curbside through their chosen hauler.
- By January 1, 2028, at least 90% of single-family households in municipalities with more than 5,000 residents as defined by the most recent federal decennial Census must have access to curbside recycling. The program must collect one or more recyclable materials at least twice

monthly, and access to curbside can either be provided by the municipality, or the residents may subscribe to curbside through their chosen hauler.

- By January 1, 2032, counties with a population of less than 100,000 (such as Clinton County) must provide access to drop-off recycling for each 10,000 of its residents that lack access to curbside recycling. This drop-off location must be open and available to the residents at least 24 hours each month.

DWM aims to ensure that all Clinton County residents have access to recycling services, whether single-family or multi-family residents, through adequate curbside and drop-off infrastructure. “Access” in this context means that at least 90% of County residents can recycle at their homes or with ease in their municipalities.

As shown below in **Table 2-3**, 10% of Clinton County lacks access to drop-off or curbside recycling as of December 2025. The County is meeting the minimum access requirements outlined in Part 115 for curbside recycling benchmarks of January 1, 2026 and January 1, 2028. Changes to drop-off programs may be necessary in order to maintain and increase access to recycling for the remaining 10% of residents by the January 1, 2032 benchmark.

Curbside recycling access has increased since 2023. As described in Section One, four municipalities provide non-subscription curbside recycling access through Granger Waste Services: City of DeWitt, City of St. Johns, Bath Township, DeWitt Township, and Village of Maple Rapids. Two municipalities provide subscription curbside through Granger: Watertown Charter Township and Eagle Township.

Drop-off recycling access has fluctuated since 2023. Illegal dumping and contamination continue to be a chronic issue for Clinton County residents, so municipalities providing curbside recycling access and/or removing municipality-funded drop-off recycling sites will likely continue to increase over the five-year planning period. As of December 2025, there are seven drop-off recycling facilities located in or near Clinton County: the Greater Laingsburg Recyclers (GLR) Community Recycling Center, the St. Johns Lions Club, as well as the East Lansing, Elsie, Fowler, Westphalia, and Granger Waste Services’ Lansing drop-off centers. See Section One of this Plan for more information. The City of Ovid has expressed interest in a twice monthly drop-off recycling collection, but as of December 2025, have not committed to any changes.

Table 2-3 Demonstration of Benchmark Recycling Standard in Clinton County, MI

| Municipalities | Population | Single-family HH | Curbside Service | Access to Drop-off Site | Drop-off Host Sites | Notes |
|----------------------------|---------------|------------------|----------------------|-------------------------|---------------------|--|
| City of St. Johns | 7,712 | 3,430 | X | X | X | Hosted by St. Johns Lions Club |
| Bath Township | 13,331 | 5,892 | X | X | | Curbside provider: Granger |
| DeWitt Township | 15,265 | 5,658 | X | | | Curbside provider: Granger |
| Watertown Charter Township | 5,631 | 2,363 | X | | | Removed drop-off location & switched to curbside through Granger in July 2025. Includes Wacousta residents |
| City of DeWitt | 4,774 | 1,793 | X | | | Curbside provider: Granger |
| City of Ovid | 1,331 | 604 | | X | X | |
| Village of Eagle | 105 | 34 | Gap in Access | | | |
| Village of Elsie | 942 | 444 | | X | X | Access to Elsie, Duplain, and Fairfield Township residents ONLY |
| Village of Fowler | 1,230 | 634 | | X | X | |
| Village of Maple Rapids | 583 | 296 | X | X | X | Curbside provider: Granger |
| Village of Westphalia | 941 | 357 | | X | X | |
| Bengal Township | 1,054 | 398 | Gap in Access | | | |
| Bingham Township | 2,923 | 1,193 | X | | | |
| Dallas Township | 2,457 | 364 | | X | X | |
| Duplain Township | 2,346 | 551 | | | X | Access through Village of Elsie drop-off |
| Eagle Township | 2,775 | 974 | X | | | Subscription Curbside provider: Granger |
| Essex Township | 1,822 | 451 | | X | X | |
| Greenbush Township | 2,055 | 901 | Gap in Access | | | |
| Lebanon Township | 595 | 270 | Gap in Access | | | |
| Olive Township | 2,533 | 928 | Gap in Access | | | |
| Ovid Township | 1,252 | 260 | | x | x | |
| Riley Township | 1,874 | 756 | Gap in Access | | | |
| Victor Township | 3,475 | 1,393 | | x | | |
| Westphalia Township | 2,243 | 479 | | x | | Access through Village of Westphalia drop-off |
| TOTAL | 79,249 | 30,423 | | | | |

Resources Needed:

Clinton County does not intend to develop any additional materials utilization facilities during the five-year planning period in support of this goal.

Instead, DWM, local haulers, Board of Commissioners, the commercial sector, and the MMPC will work together to promote recycling activities for residents and businesses. The following resources are needed for this effort to be successful.

Table 2-4. Goal Two Resources Needed

| County Resources Needed | Community Resources Needed |
|--|---|
| Public-Private Partnerships <ul style="list-style-type: none"> • Local businesses • Local schools • Nonprofits • Libraries | Education campaigns and outlets <ul style="list-style-type: none"> • Social media • Website • Garbage Guide |
| Funding <ul style="list-style-type: none"> • Granger User Fee Agreement • PA69 | Outreach opportunities <ul style="list-style-type: none"> • Local schools • Online • Community events • Libraries |
| Expanded Hours at Local Drop-off Centers/Collection Events | |
| Educational/outreach materials | |
| Subcommittee to help with outreach and volunteer events | |

Education and Outreach Programs: Clinton County DWM plans to launch a targeted education campaign to increase public understand of what materials are recyclable county-wide, as well as increasing public awareness of how recycled materials are processed and reused through end markets. This partnership will require coordination with County haulers such as Granger to ensure consistency across the County and clear communication as to what materials residents and local businesses can recycle at the curb and through drop-off recycling sites.

Goal #2 Action Steps

The MMPC and Stakeholders outlined the following action steps for the County to pursue over the next five years:

1. Update PA69 Funding to expand funding for additional recycling programs across the County.
2. Update educational materials to align recycling materials across all County-wide programs and recycling service providers.
3. Expand rural recycling drop-off site hours to ensure all locations offer at least 24 hours of collection service to residents per month.
4. Pass a Recycling Ordinance to expand multi-family recycling access.
5. Pass a Commercial Recycling Ordinance to encourage commercial sector diversion programs.
6. Relaunch Lend-A-Bin away-from-home recycling program.
7. Launch an education campaign to increase public awareness of what materials are accepted for recycling, what the per capita waste is per County resident, and how recycled materials are reused through end markets.
8. Explore establishing hauler license requirements for all haulers providing service in County, requiring all haulers to accept recyclable materials.
9. Establish commercial sector recycling reporting requirements annually to DWM.
10. Update the Host Community User Fee Agreement with Granger.

Goal #2 Implementation Timetable: Activities will be implemented throughout the five-year planning period. See **Table 2-5** for an overview of all planned Action Steps for DWM’s MMP Goals.

Table 2-5 2027 – 2031 Implementation Timetable for Goal #2 Benchmark Recycling Standard

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Update PA69 Funding to expand funding for additional recycling programs across the County. | X | X | | | | | | | | | | | | | | |
| Update educational materials to align recycling materials across all County-wide programs and recycling service providers. | | | X | X | X | X | | | | | | | | | | |
| Expand rural recycling drop-off site hours to ensure all locations offer at least 24 hours of collection service to residents per month. | | | | | | | X | X | X | X | | | | | | |
| Pass a Recycling Ordinance to expand multi-family recycling access. | | | | | | | | | | | X | X | X | X | | |
| Pass a Commercial Recycling Ordinance to encourage commercial sector diversion programs. | | | | | | | | | | | X | X | X | X | | |
| Relaunch Lend-A-Bin away-from-home recycling program. | X | X | | | | | | | | | | | | | | |
| Launch an education campaign to increase public awareness of what materials are accepted for recycling, what the per capita waste is per County resident, and how recycled materials are reused through end markets. | | | X | X | X | X | | | | | | | | | | |

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|---|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Explore establishing hauler license requirements for all haulers providing service in County, requiring all haulers to accept recyclable materials. | | | | | | | | | | | | | | | X | X |

Goal 3: Hard-to-Recycle Material Diversion and Disposal

Goal #3: By 2031, Clinton County will expand residential participation by 10% in the diversion of specialty materials. DWM will explore new partnerships to establish a facility that increases the diversion and disposal of specialty materials such as household hazardous waste (HHW) from the County, while maintaining their twice annual specialty collection events.

Description: Currently, there are no central County locations to safely divert or dispose of hard-to-manage materials such as HHW, tires, etc. Clinton County offers regular programs such as the Battery Bucket program, tire recycling trailers, and items accepted at the twice-annual collection events, as described in Section One of this Plan. DWM plans to continue these programs over the five year planning period, potentially adding new material recovery efforts should affordable programs present themselves.

Resources Needed:

Clinton County does not intend to develop a new materials management facility during the five-year planning period in support of this goal. The development and planning of a new Center for Hard to Recycle Materials (CHaRM) facility will continue to be explored but would take longer to establish than the 2027-2031 five-year planning period. However, this Implementation Strategy is designed to help DWM take steps to ensure hazardous materials are properly managed as progress towards establishing a new CHaRM facility move forward.

DWM, Board of Commissioners, the recycling industry, and the MMPC will work together during the planning period to encourage appropriate disposal and diversion of hard-to-manage materials for both residents and businesses. The following resources are needed for this effort to be successful.

Table 2-6 Goal #3 Resources Needed

| County Resources Needed | Community Resources Needed |
|---|----------------------------|
| Education campaign | |
| Community ambassadors and/or volunteers | |
| Public-Private Partnerships <ul style="list-style-type: none"> • Local businesses • Community • Recycling industry | |
| Funding | |
| Inter-local agreements | |

Education and Outreach Programs: Clinton County DWM will continue to explore public-private partnerships to support the future development of a CHaRM facility. DWM will continue collecting household hazardous waste (HHW) materials during twice annual collection events. Should a facility of this type occur during the five year planning period or beyond, a countywide education campaign will be needed to ensure residents and businesses are aware of the new resource and how to utilize its services. DWM would lead this education campaign in partnership with other entities involved in the day to day operations and management of a CHaRM facility.

Goal #3 Action Steps

The MMPC and Stakeholders outlined the following action steps from highest to lowest priority for the County to pursue over the next five years:

1. Update education materials to align recycling materials across County-wide programs.
2. Update PA69 Funding to expand funding for additional recycling programs across the County.
3. Explore state grants and industry funding tools to support the development of a new facility.
4. Establish interlocal agreements to ensure County facility is utilized effectively.
5. Continue seeking public-private partnerships to develop a new County facility during the five-year planning period of 2027 – 2031, including regional approaches to establish a CHaRM facility that serves both Clinton County residents and adjacent planning areas.
6. Explore locations within the County to site a new facility.
 - a. MMPC recommends establishing a site that is close to a densely populated area of the County, to ensure adequate material is processed.
7. Launch a public education campaign about the impact of hazardous waste on human and environmental health.
8. Explore expanding existing drop-off recycling locations to accept household hazardous waste materials (HHW).
9. Update County siting criteria to ensure materials utilization facilities such as a hard-to-manage County facility are allowed within County boundaries.
10. Pass a Commercial Recycling Ordinance to encourage commercial sector diversion programs.

Goal #3 Implementation Timetable: Activities will be implemented throughout the five-year planning period. See **Table 2-7** for an overview of all planned Action Steps for Goal #3.

Table 2-7 2027 – 2031 Implementation Timetable for Goal #3 Hard-to-Recycle Materials

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|---|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Update education materials to align recycling materials across County-wide programs. | | | X | X | X | X | | | | | | | | | | |
| Update PA69 Funding to expand funding for additional recycling programs across the County. | X | X | | | | | | | | | | | | | | |
| Explore state grants and industry funding tools to support the development of a new facility. | | | | | | | X | X | X | X | | | | | | |
| Establish interlocal agreements to ensure County facility is utilized effectively. | | | | | | | | | | | X | X | X | X | | |
| Continue seeking public-private partnerships to develop a new County facility during the five-year planning period of 2027 – 2031, including regional approaches to establish a CHaRM facility that serves both Clinton County residents and adjacent planning areas. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Explore locations within the County to site a new facility. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Launch a public education campaign about the impact of hazardous waste on human and environmental health. | | | X | X | X | X | | | | | | | | | | |

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|---|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Explore expanding existing drop-off recycling locations to accept household hazardous waste materials (HHW). | | | X | X | X | X | | | | | | | | | | |
| Update County siting criteria to ensure materials utilization facilities such as a hard-to-manage County facility are allowed within County boundaries. | X | X | | | | | | | | | | | | | | |
| Pass a Commercial Recycling Ordinance to encourage commercial sector diversion programs. | | | | | | | | | | | X | X | X | X | | |

Goal 4: 25% Disaster Debris Diversion

Goal #4: By 2031, Clinton County has a clear process in place to manage debris and successfully diverts 25% of materials generated during disasters or emergencies, including Construction & Demolition Debris and organic materials.

Description: Part 115 and EGLE guidance encourages the County to consider establishing management plans for disaster debris in its new Materials Management Plan. Clinton County recently updated its Debris Management Plan through the Emergency Management Department, however, there are no recycling requirements within this Plan. DWM has an opportunity to update and develop this Plan, in partnership with the Emergency Management Department, during the five-year planning period.

Resources Needed: Clinton County does not intend to develop and/or support a new materials utilization facility during the five-year planning period in support of this goal, instead, relying on existing disposal areas and materials utilization facilities during the five-year planning period.

DWM, Emergency Management Department, the recycling industry, and the MMPC will work together during the planning period to encourage appropriate disposal and diversion of disaster debris from the County, when and if appropriate disasters arise. The following resources are needed for this effort to be successful.

Table 2-8 Goal #4 Resources Needed

| County Resources Needed | Community Resources Needed |
|---|--|
| Collaboration with Emergency Management Department | Education and Outreach as Post-Disaster Response |
| Public-Private Partnerships <ul style="list-style-type: none"> • Local businesses • Community • Recycling industry | |
| Collaboration with Board of Commissioners | |

Education and Outreach Programs: DWM will coordinate with the County Emergency Management Department and the private waste industry to provide as-needed education and outreach to the public after potential disasters. Disaster debris collection and drop-off efforts will be promoted by DWM through social media and other digital avenues.

Goal #4 Action Steps

The MMPC and Stakeholders outlined and ranked the following action steps from highest to lowest priority for the County to pursue over the next five years:

1. Establish a local taskforce to identify key materials to divert and responsible parties to involve in disaster debris management.
2. Coordinate with the County Emergency Management Department.
3. Develop an Emergency Management and/or Hazard Mitigation Plan that includes management, tracking, and diversion of key material streams.
4. Collaborate with adjacent counties to identify gaps in disaster debris management, recovery, and tracking.
5. Identify which material streams to target for recovery and diversion from relevant disasters, including analysis of distances travel and cost to recover for decision-making matrix.
6. Explore industry grant programs and resources to build and strengthen County resilience to disasters.
7. Increase County awareness and visibility of how much disaster debris planning can save the County in the long-run.
8. Identify locations for organic materials to be housed during an emergency response scenario.

Goal #4 Implementation Timetable: Activities will be implemented throughout the five-year planning period. See **Table 2-9** for an overview of all planned Action Steps for Goal #4.

Table 2-9 2027 – 2031 Implementation Timetable for Goal #4 25% Disaster Debris Diversion

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Establish a local taskforce to identify key materials to divert and responsible parties to involve in disaster debris management. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Coordinate with the County Emergency Management Department. | X | | X | | X | | X | | X | | X | | X | | X | |
| Develop an Emergency Management and/or Hazard Mitigation Plan that includes management, tracking, and diversion of key material streams. | | | | | | | X | X | X | X | | | | | | |
| Collaborate with adjacent counties to identify gaps in disaster debris management, recovery, and tracking. | | | | | | | | | | | X | X | X | X | | |
| Identify which material streams to target for recovery and diversion from relevant disasters, including analysis of distances travel and cost to recover for decision-making matrix. | | | | | | | X | X | X | X | | | | | | |
| Explore industry grant programs and resources to build and strengthen County resilience to disasters. | | | | | | | X | X | X | X | | | | | | |

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Increase County awareness and visibility of how much disaster debris planning can save the County in the long-run. | | | | | | | | | | | X | X | X | X | | |
| Identify locations for organic materials to be housed during an emergency response scenario. | | | | | | | | | X | X | X | X | | | | |

Goal 5: 10% Overall Diversion Increase

Goal #5: By 2031, Clinton County has new policies and partnerships in place that increase overall diversion by 10% over the 2023 baseline.

Description: The State of Michigan and EGLE have set ambitious statewide recycling goals of 30% diversion by 2030, and 45% diversion beyond. As of 2023, the County has a MSW Recycling Rate of 31%. While the County is exceeding the 2030 goal, it will take intentional effort and focused action to maintain and meet the 45% diversion goal long-term.

Resources Needed: Clinton County does not intend to develop and/or support a new materials utilization facility during the five-year planning period in support of this goal, instead, relying on existing disposal areas and materials utilization facilities during the five-year planning period.

DWM, the recycling industry, and the MMPC will work together during the planning period to encourage increased diversion of materials generated within the County.

Table 2-10 Goal #5 Resources Needed

| County Resources Needed | Community Resources Needed |
|---|---|
| New or expanded Public-Private Partnerships <ul style="list-style-type: none"> • Local businesses • Local schools • Nonprofits • Libraries • Community • Recycling industry • Neighboring Counties and/or DPAs | Education campaigns and outlets <ul style="list-style-type: none"> • Social media • Website • Garbage Guide |
| Funding <ul style="list-style-type: none"> • Granger User Fee Agreement • PA69 • Interlocal agreements | Outreach opportunities <ul style="list-style-type: none"> • Local schools • Online • Community events • Libraries |
| Expansion of curbside recycling access and/or expanded Hours at Local Drop-off Centers/Collection Events | |
| Collaboration with local townships and businesses | |
| Third-party facilitator to assist and/or lead the County's next steps on increasing diversion | |
| Commitments from elected officials | |
| Regional Policy Taskforce | |
| Template ordinances and/or policy recommendations that increase diversion (e.g., hauler licensing, recycling ordinances that include commercial sector requirements, etc.) | |

Education and Outreach Programs: Clinton County DWM will continue the education and outreach activities described in Goal #2. Of particular interest to the County is exploring a food waste composting pilot in collaboration with Hammond Farms. DWM will continue to explore this initiative, as well as broader commercial sector diversion efforts, during the five-year planning period.

Goal #5 Action Steps

The MMPC and Stakeholders outlined and ranked the following action steps from highest to lowest priority for the County to pursue over the next five years:

1. Explore partnerships with neighboring Counties to expand food waste collection and diversion efforts.
2. Apply for Michigan EGLE MMP Work Program Implementation Funding to support the development of a food waste composting pilot in Clinton County.
3. Establish a regional policy taskforce to determine the most effective and feasible policies to promote increased diversion in Clinton County.
4. Host Zero Waste Workshops to educate local community on other diversion and waste reduction opportunities in the County.
5. Update the User Fee Agreement with Granger.
6. Encourage local municipalities to update single-hauler contracts to include reporting requirements to track diversion progress over time.
7. Explore industry grant programs and resources to build and strengthen County programs.
8. Pass a Recycling Ordinance that encourages diversion of new materials such as C&D.

9. Explore and expand partnerships with local businesses to increase commercial sector diversion and tracking.
10. Begin to collect commercial sector recycling data in support of MSW Recycling Rate.
11. Establish a regular meeting with anchor institutions in the County such as local governments, schools, churches, and hospitals to understand their diversion needs and challenges.

Goal #5 Implementation Timetable: Activities will be implemented throughout the five-year planning period. See **Table 2-11** for an overview of all planned Action Steps for Goal #5.

Table 2-11 2027 – 2031 Implementation Timetable for Goal #5 Overall 10% Increase in Diversion

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Explore partnerships with neighboring Counties to expand food waste collection and diversion efforts. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Apply for Michigan EGLE MMP Work Program Implementation Funding to support the development of a food waste composting pilot in Clinton County. | X | X | | | | | | | | | | | | | | |
| Establish a regional policy taskforce to determine the most effective and feasible policies to promote increased diversion in Clinton County. | X | | X | | X | | X | | X | | X | | X | | X | |
| Host Zero Waste Workshops to educate local community on other diversion and waste reduction opportunities in the County. | | X | | X | | X | | X | | X | | X | | X | | X |
| Update the User Fee Agreement with Granger. | X | X | | | | | | | | | | | | | | |

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Encourage local municipalities to update single-hauler contracts to include reporting requirements to track diversion progress over time. | | | | | | | X | X | X | X | | | | | | |
| Explore industry grant programs and resources to build and strengthen County programs. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Pass a Recycling Ordinance that encourages diversion of new materials such as C&D. | | | | | | | | | | | X | X | X | X | | |
| Explore and expand partnerships with local businesses to increase commercial sector diversion and tracking. | | | | | | | X | X | X | X | | | | | | |
| Begin to collect commercial sector recycling data in support of MSW Recycling Rate. | | | | | | | | | | | X | X | X | X | | |
| Establish a regular meeting with anchor institutions in the County such as local governments, schools, churches, and hospitals to understand their diversion needs and challenges. | X | | X | | X | | X | | X | | X | | X | | X | |

Goal 6: Annual Education Spend (\$1.50/HH)

Goal #6: By 2031, Clinton County annually spends at least \$1.50 per single-family household on materials management education, outreach, and programming.

Description: Currently, Clinton County spends around \$20,000 on education and outreach efforts annually on roughly 33,000 single-family households, approximately \$0.61 per household. Industry standard and national best practices for leaders in materials management programs recommend spending at least \$1 to \$2 per single-family household annually. Increasing education spending will support the County’s other materials management goals, including increased diversion of materials generated within Clinton County. DWM intends to increase its annual education spend gradually over the next five years until an average of \$1.50 is spent per single-family household annually.

Resources Needed: Clinton County does not intend to develop and/or support a new materials utilization facility during the five-year planning period in support of this goal, instead, relying on existing disposal areas and materials utilization facilities during the five-year planning period.

DWM, the recycling industry, and the MMPC will work together during the planning period to increase education and outreach efforts within the County.

Table 2-12 Goal #6 Resources Needed

| County Resources Needed | Community Resources Needed |
|--|---|
| Funding <ul style="list-style-type: none"> • Annual budget request • PA69 • Granger User Fee Agreement • Michigan EGLE grant funding | Education campaigns and outlets <ul style="list-style-type: none"> • Social media • Website • Garbage Guide |
| Public-Private Partnerships <ul style="list-style-type: none"> • Local businesses • Community • Recycling industry | Outreach opportunities <ul style="list-style-type: none"> • Local schools • Online • Community events • Libraries |

Education and Outreach Programs: DWM will continue education and outreach to the community through the annual Garbage Guide, regular social media posts, and twice annual community collection events (Spring Collection and “Free for Fall” events). The County intends to increase its education spending on a variety of programs. The County will continue regular engagements with area K-12 schools, participate and market the Michigan EGLE Green Schools program.

Goal #6 Action Steps

The MMPC and Stakeholders outlined and ranked the following action steps from highest to lowest priority for the County to pursue over the next five years:

1. Annually increase the education and outreach budget by an additional \$9,000 to \$10,000, increasing annual spend from \$0.61 to \$1.50 per household by end of planning period.
2. Continue tracking social media metrics.
3. Increase education efforts in area K-12 schools.
4. Host Zero Waste Workshops to educate local community on other diversion and waste reduction opportunities in the County.
5. Launch a public education campaign about the impact of hazardous waste on human and environmental health.
6. Launch education and outreach campaign on backyard composting through local library system.

7. Launch an education campaign to increase public awareness of what materials are accepted for recycling, what the per capita waste is per County resident, and how recycled materials are reused through end markets.
8. Increase County awareness and visibility of how much disaster debris planning can save the County in the long-run.

Goal #6 Implementation Timetable: Activities will be implemented throughout the five-year planning period. See **Table 2-13** for an overview of all planned Action Steps for Goal #6.

Table 2-13 2027 – 2031 Implementation Timetable for Goal #6 Annual Education Spend

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Annually increase the education and outreach budget by an additional \$9,000 to \$10,000, increasing annual spend from \$0.61 to \$1.50 per household by end of planning period. | X | | | | X | | | | X | | | | X | | | |
| Continue tracking social media metrics. | | | X | | | | X | | | | X | | | | X | |
| Increase education efforts in area K-12 schools. | X | | X | | X | | X | | X | | X | | X | | X | |
| Host Zero Waste Workshops to educate local community on other diversion and waste reduction opportunities in the County. | | X | | X | | X | | X | | X | | X | | X | | X |
| Launch a public education campaign about the impact of hazardous waste on human and environmental health. | | | | | | | X | X | X | X | | | | | | |
| Launch education and outreach campaign on backyard composting through local library system. | | | X | X | X | X | | | | | | | | | | |

| Action Steps | 2027 | | 2028 | | | | 2029 | | | | 2030 | | | | 2031 | |
|--|------|----|------|----|----|----|------|----|----|----|------|----|----|----|------|----|
| | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 |
| Launch an education campaign to increase public awareness of what materials are accepted for recycling, what the per capita waste is per County resident, and how recycled materials are reused through end markets. | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Increase County awareness and visibility of how much disaster debris planning can save the County in the long-run. | | | | | | | | | | | X | X | X | X | | |

Section Four. Administration

Section Overview

The purpose of this Section is to describe the public and private entities responsible for fulfilling the goals and objectives described in Sections One through Three of this Plan.

4.1 Administration

As defined in Sections One through Three, Clinton County will continue to operate its materials management system as a private system, with supplemental public administration through the continued operation and coordination of County and municipal recycling programs. DWM, Clinton County Board of Commissioners, recycling industry, and the MMPC will work together during the planning period to encourage appropriate disposal and diversion of hard-to-manage materials for both residents and businesses.

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Table 4-1: 2027 – 2031 Materials Management Plan Responsibilities & Responsible Entities

| Responsibilities | Name/Title/Organization | Qualifications/Authority |
|--|--|---|
| <p>Implementing the access requirements of the benchmark recycling standards.</p> | <p>Clinton County Department of Waste Management (DWM)</p> | <p>DWM is the DPA for Clinton County, as well as the recycling and waste management coordinator for the County. DWM will oversee the benchmark recycling standards and coordinate with other responsible entities.</p> |
| | <p>Granger Waste Services, other local recycling service providers</p> | <p>Granger Waste Services and other local recycling service providers provide curbside and drop-off recycling services throughout the County. Service is provided per contracts with the County and local municipalities and is expected to continue.</p> |
| | <p>Municipalities</p> | <p>Municipalities, in coordination with DWM and local recycling service providers, are responsible for meeting the requirements of Part 115 through either drop-off or curbside recycling access depending on their designation under Part 115.</p> |
| <p>Identifying the materials utilization framework and the achievement of the materials management goals.</p> | <p>Clinton County Department of Waste Management (DWM)</p> | <p>DWM will lead the effort to achieve Clinton County’s materials management goals, as well as identifying new strategies and programs that align with a circular economy.</p> |
| | <p>Clinton County Materials Management Planning Committee (MMPC)</p> | <p>The MMPC is a permanent body of Clinton County. Committee members are responsible for supporting DWM in daily activities, as well as pushing forward the materials management goals determined in Section Two of this Plan.</p> |
| <p>Monitoring, implementing, and enforcing the MMP and providing any required reports to the department.</p> | <p>Clinton County Department of Waste Management (DWM)</p> | <p>DWM will continue to submit required reports to EGLE as required under Part 115.</p> |
| <p>Administering the funding mechanisms identified in MCL Section 324.11581 that will be used to implement the MMP.</p> | <p>Clinton County Department of Waste Management (DWM)</p> | <p>DWM will coordinate with Granger Waste Services, local municipalities, the County Commissioners, as well as the County’s Administration and Accounting Departments to administer and update the funding mechanisms identified in Section Two and Three of this Plan.</p> |
| | <p>Clinton County Accounting and Administration</p> | <p>The County’s Accounting and Administration are responsible for developing County policies, approving the budget, and managing any state or federal grants and grant reporting. DWM will coordinate with the County’s Accounting and Administration departments should any EGLE or federal funding be received to implement the goals and programs outlined in this Plan.</p> |
| | <p>Granger Waste Services</p> | <p>Granger will collaborate with DWM as defined in the updated User Fee Agreement, as well as any other ordinances described in Section Three of this Plan.</p> |
| | <p>Municipalities</p> | <p>Municipalities will continue to provide funding to DWM as specified in Public Act 69 funding for recycling.</p> |