



Genesee County Solid Waste Management Plan

GENESEE COUNTY
METROPOLITAN PLANNING COMMISSION

2012 PLAN AMENDMENT COVER PAGE

The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Part 115, Solid Waste Management, and its Administrative Rules, requires that each County have a Solid Waste Management Plan Update (Plan) approved by the Michigan Department of Environmental Quality (DEQ). Section 11539a requires the DEQ to prepare and make available a standardized format for the preparation of these Plan updates. This document is that format. The Plan should be prepared using this format without alteration. Please refer to the document entitled "Guide to Preparing the Solid Waste Management Plan Update" for assistance in completing this Plan format.

DATE SUBMITTED TO THE DEQ:

If this Plan includes more than a single County, list all counties participating in this Plan.

N/A

The following lists all the municipalities from outside the County who have requested and have been accepted to be included in the Plan, or municipalities within the County that have been approved to be included in the Plan of another County according to Section 11536 of Part 115 of the NREPA. Resolutions from all involved County boards of commissioners approving the inclusion are included in Appendix E.

Municipality

Original Planning County

New Planning County

N/A

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Genesee County Metropolitan Planning Commission

CONTACT PERSON: Derek Bradshaw, Director- Coordinator

ADDRESS: 1101 Beach Street, Room 223

Flint, Michigan 48502

PHONE: (810)-257-3010 FAX: (810)-257-3185

(If Applicable)

E-MAIL: dbradshaw@co.genesee.mi.us

CENTRAL REPOSITORY LOCATION(S): _____

Same as above.

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Executive Summary

The following summarizes the solid waste management system selected to manage solid waste within the County. In case of conflicting information between the executive summary and the remaining contents of the Plan update, the information provided in the main body of the Plan amendment found on the following pages will take precedence over the executive summary.

Over the last several years, approaches to solid waste planning across the country have evolved significantly. Technological advancements and the general need to conserve resources for economic, public health and environmental reasons have helped shape dynamic solid waste programs. The Genesee County Solid Waste Plan and corresponding programs have been serving the residents and businesses of the county for decades to ensure efficient disposal and recycling services as well as provide educational and recycling incentive opportunities. This amendment of the Genesee County Solid Waste Plan will not only continue to ensure those core principles, but will also expand upon the plan and programs to help reap the greatest sustainable benefits in the solid waste system.

The plan is organized according to the Michigan Department of Environmental Quality's (DEQ) regulations for solid waste plans. While following those guidelines, the plan also incorporates additional sections (technical reports) that are vital to understanding the importance of solid waste and recycling in Genesee County, as well as seeking to deliver detailed and measurable implementation steps for improving solid waste system planning. It should be noted that information contained in the body of this plan take precedence over any information in the four technical reports or the recycling assessment.

Overall View of the County

Higher concentrations of population and residential areas are primarily in the Cities of Flint and Burton, as well as the townships of Grand Blanc, Flint, Davison and Mt. Morris as portrayed Technical Report 1 located in Appendix E. Economic data is also provided in Technical Report 1 for each municipality showing their total contributing percentage of employment to each industry. The City of Flint accounts for the majority of economic activity, followed by Flint and Grand Blanc Townships. Overall in the county, 47% of employment is accounted for in the Service sector, followed by Retail, Government and Manufacturing which each make up between 10 to 12% of total employment.



Overall View of the County											
Pop	# of			Econ M	Econ O	Econ T	Econ F	Econ R	Econ W	Econ S	Econ G
2010	Employees	U&B %	UND %	%	%	%	%	%	%	%	%
425,790	224,123	49%	51%	10.25%	5.85%	2.71%	6.74%	12.50%	3.20%	46.93%	11.82%

*U & B = Urban and Built, UND = Undeveloped, Econ M = Manufacturing, Econ O = Other, Econ T = Transportation, Warehousing & Real Estate, Econ F = Finance, Insurance & Real Estate, Econ R = Retail Trade, Econ W = Wholesale Trade, Econ S = Service, Econ G = Government. Figure A in the Appendix expands on this table to show all municipalities.

Conclusions


Genesee County's waste stream is currently managed by the private sector, while the County enforces the rules and regulations of the Genesee County Solid Waste Ordinance as well as implementation of the selected solid waste system. Current population and land use trends show that population in the county will steadily rise and waste generation will increase by over 10% in the next 25 years.

While the management of the waste stream is acceptable, the Solid Waste Management Committee has concluded that improvements can be made to the overall system to help further reduce waste, consolidate services to reach cost benefits, and to continue education efforts and create new programs and incentives for recycling.

Genesee County Landfills

Throughout the Solid Waste Management Plan amendment process, the Solid Waste Management Planning Committee (SWMPC) and the public raised several serious concerns related to one of the three landfills in Genesee County, Richfield Landfill. The first of these concerns being that this landfill is sited near environmentally sensitive areas. While all three landfills in Genesee County are located in the 1,400 square mile Flint River Watershed, which contains parts of 7 counties, 20 cities and villages, and 58 townships, the violations regularly issued to Richfield Landfill by the DEQ pose the largest threat to this ecosystem. The River is the back up drinking water supply for more than 250,000 people, including the City of Flint. Another major concern is Richfield Landfill has, in the past, been cited with significant and ongoing violations from the DEQ; violations which have the potential to impact local environments and water supply. Not only has Richfield Landfill received notice of violations on numerous occasions, but these violations are regular and repeated, leading to further violations and fines imposed by the DEQ.

Genesee County closely follows any violations issued to the three landfills located within Genesee County. In the past, both Citizen's Landfill and Brent Run Landfill have received violation notices from the DEQ. These violations, however, have been addressed in a timely manner and are not a recurring issue. Genesee County wishes only to ensure that the landfills operating within its boundaries are doing so in the most responsible manner possible.



After extensive review and discussion of the issues surrounding the operations of and violations issued to Richfield Landfill, the committee has concluded that the various regulatory and legal questions associated with concerns surrounding Richfield Landfill may be beyond the scope of this committee. It is important to note that regulation and permitting of landfills as well as the imposition of violations and fines is the responsibility of the DEQ.

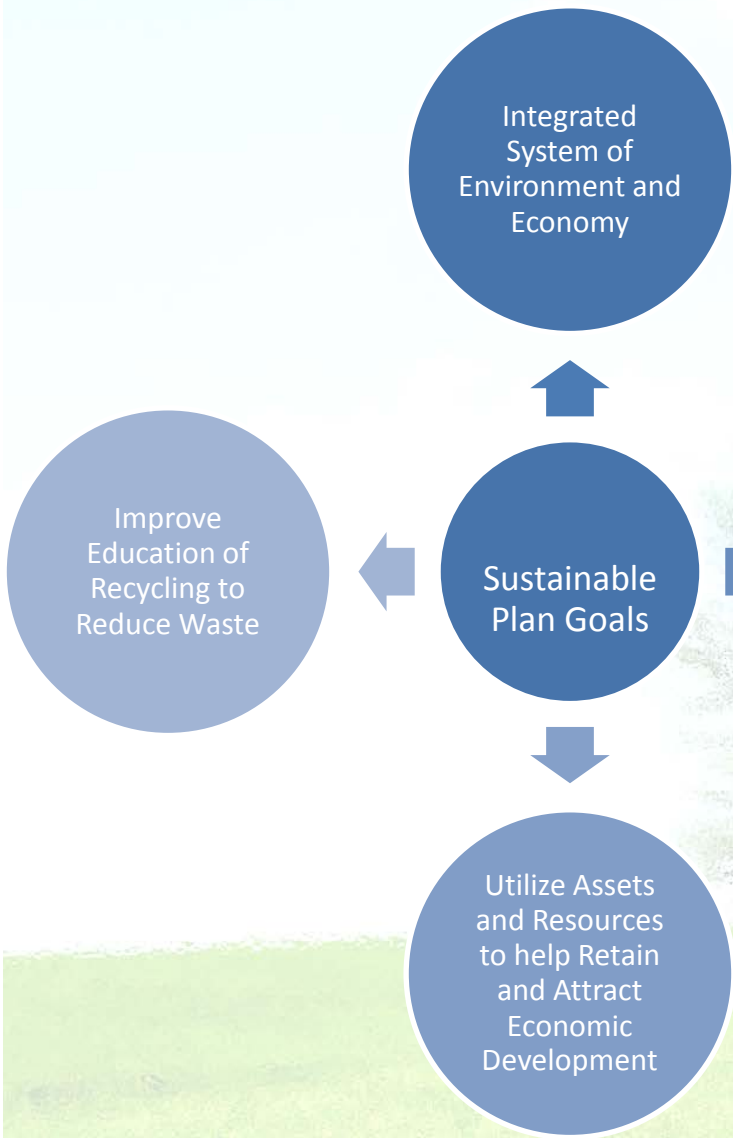
Selected Alternatives

The alternatives from the 2000 Solid Waste Management Plan were analyzed for the inclusion of economical and environmental aspects. The current predominant method of disposal in Genesee County is disposing of waste at four major landfill sites, which includes one located in Shiawassee County.

Summary of Selected Alternative System Components

The current system for waste disposal in Genesee County is based on a plan that includes recycling, landfilling and education in resource recovery. Because Genesee County has an established solid waste management system, this plan amendment is focused primarily on the following items as means to enhance and improve the current system:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expand the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, implementing a requirement for multi-family units to have access to recycling, encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a Material Recycling Facility (MRF).
- Utilizing assets and resources in the County by developing partnerships among local communities to reduce costs and increase recycling opportunities.



Plan Summary

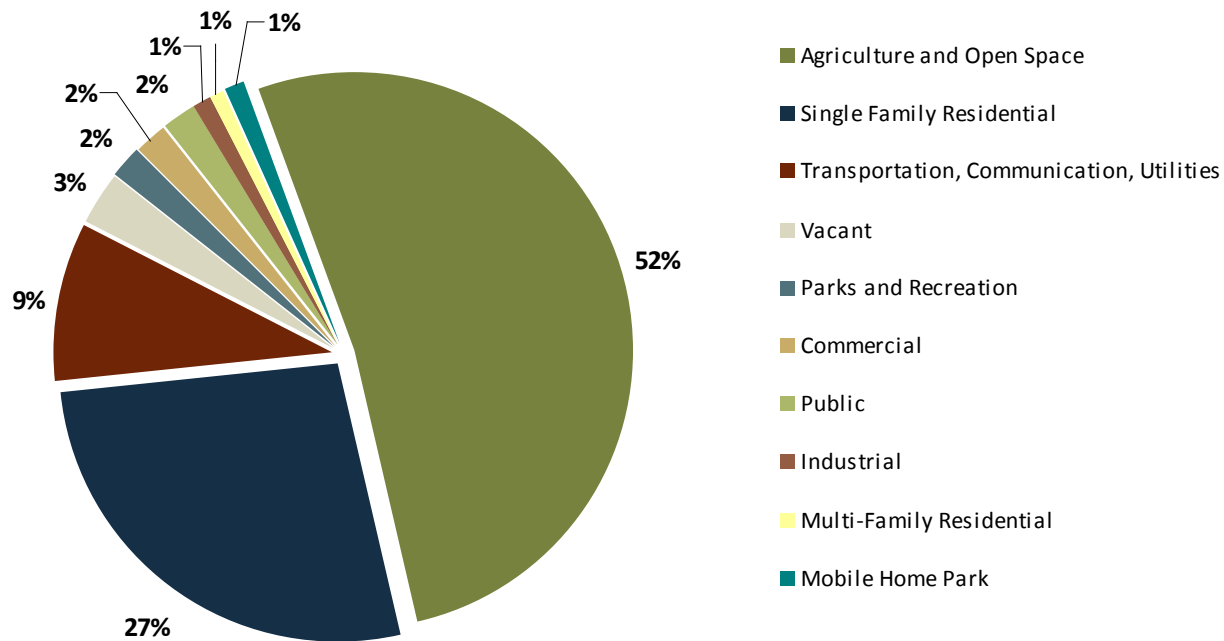
This Genesee County Solid Waste Plan amendment is an opportunity for significant changes to develop within the solid waste program that would foster increased sustainable practices to ultimately lead to a decrease in waste generation in the county. The plan addresses issues from the current system to provide policies and recommendations for a future, improved system. In order for this plan to be successful, the county will evaluate goals and actions set forth in this plan on a regular basis, as well as have an open dialogue with communities about their role in the plan.

The Plan Summary section includes the most important details from the four (4) technical reports and the Recycling Assessment that will help the reader understand the existing and future solid waste system. For more information, the technical reports and Recycling Assessment are also listed in Appendix E of this plan.

Background of the County

In 2006, the Genesee County Metropolitan Planning Commission (GCMPC) performed an analysis of the past and current land use trends in Genesee County. The results of this analysis show that of the nearly 410,000 acres that make up Genesee County, 209,981 of those acres are agricultural and other undeveloped land. Land use trends in the county have relied heavily on land consumption with the majority of development occurring on agricultural lands and other open spaces. With a quarter of the county consisting of Single Family Residential developments and with residential waste currently 35% of the total waste generated in the county, it is important to take into consideration land development trends when projecting solid waste capacity in Genesee County. Possible increases in waste generation may result from the residential sector if these land use trends should continue.

Percent of Land Use in Genesee County (2006)



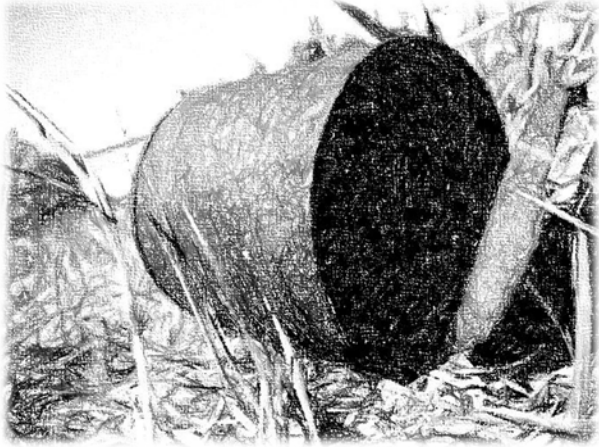
In order to accurately estimate the existing and future generated solid waste stream in the County, population and employment data was gathered. Genesee County has used population and employment data from a combination of sources that include the U.S. Census Bureau and projections made by GCMPC that were part of the Genesee County Long Range Transportation Plan 2035 (2009). The projections are not calculated using the 2010 U.S. Census data; consequently the growth rate between 2010 and 2015 is slightly higher than expected.

It is projected that Manufacturing, Transportation and Public Utilities, Retail Trade, Wholesale Trade, and Government jobs will all decrease over the next 25 years. However, Services and Other job categories (which includes agricultural and forestry jobs) are projected to increase. The Services sector is substantially going to increase, resulting in an overall county estimate of

approximately 11,000 more jobs by the year 2035. The shifting of the Genesee County economic base from one sector to another produces different amounts of waste per employee. For more detailed information and analysis, please refer to Technical Report 1 of Appendix E.



11,000
jobs
created
over the
next 20
years



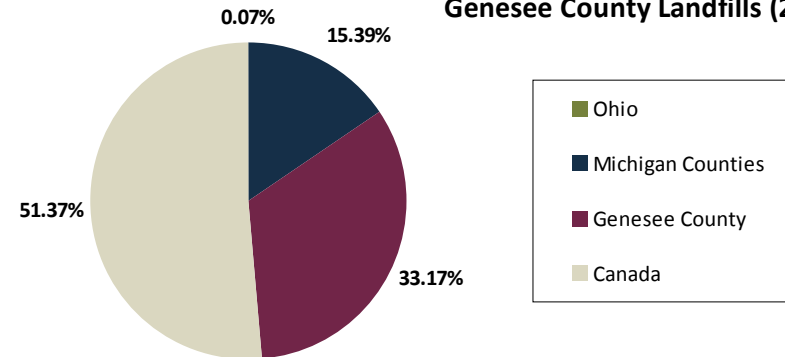
Waste in Our County

Overall, if the population grows at a similar rate as projected, Genesee County will see an increase of 10.13 % in total annual waste generation from 1.4 million cubic yards in 2010 to 1.54 million cubic yards in 2035. The increase in waste is coming primarily from the residential sector (showing an overall 30% increase); as the commercial sector foresees a gradual 6.5% decrease over the next 25 years due to a shift in the manufacturing sector industry. This estimated growth rate of waste generation gives the county an idea of how to plan for increases in waste and look for methods to help reduce waste generation.

Imported and Exported Waste Volumes

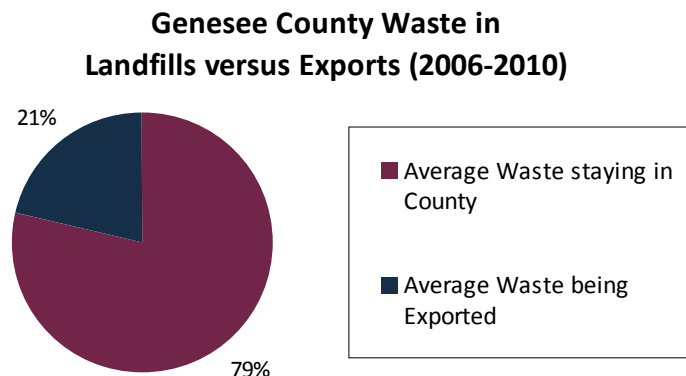
Part of the purpose of the Solid Waste Plan is to determine current and future landfill capacity in the county. One of the key determinants of landfill capacity and waste volumes in the county is imported and exported waste. Staff utilized the Michigan Department of Environmental Quality's *Reports of Solid Waste Landfilled in Michigan* from 2006 through 2010 to determine the average imported and exported waste volumes. The total numbers include municipal, industrial, and construction and demolition waste. Refer to Technical Report 1, Appendix E for more information.

Percentage of Average Waste in Genesee County Landfills (2006-2010)



Landfill Capacity

Landfill capacity is determined by the estimated amount of waste that enters landfills (from Genesee County as well as imported waste from outside the county) along with the total area that is permitted for use. Currently the 3 landfills in Genesee County have a combined estimated lifetime of capacity of about 20 years. This capacity accounts for waste that is not only coming from Genesee County, but waste that is being imported into the county from Michigan counties, Ohio and Canada. While almost 80% of Genesee County waste stays in our landfills, imported waste still accounts for approximately 67% of total waste entering the county landfills which indicates that the amount of waste that Genesee County generates and sends to our own landfills is not the sole indicator of capacity. Landfill capacity, instead, is mostly driven by the waste market, where importing waste is a driver of a successful landfill operation.



If the landfills were to only take Genesee County waste (not including waste that the county exports), the total combined lifetime capacity of the landfills would be somewhere between 40 and 60 years, depending on site area that is permitted, instead of 20 years which includes all the waste that is imported. Please refer to Technical Report 2 in Appendix E for more information.



Economic Value of Recycling

As shown below, Genesee County supports a total of 16,507 employees through various recycling services, making up 7% of total County employment. The majority of employment is found in the Wholesale and Retail sector, where there are 14,697 employees making up 89% of the total recycling employment. Based on the data found through staff's analysis, it is evident that the recycling sector is a vital part of Genesee County's economy, where additional policies and programs to support and increase recycling efforts in the County would clearly benefit this employment sector.

Genesee County Summary Recycling Employment Data

Type	Employment
Collection Businesses	102
Process and Manufacture	888
Wholesale and Retail	14,697
Supporting Businesses	820
TOTAL	16,507



Genesee County Recycling Assessment



Study Methodology

With the goal of determining a Countywide Residential Recycling Rate, staff designed a sampling methodology to collect and weigh municipal solid waste (MSW) in multiple communities to achieve an accurate rate. By obtaining partnerships with local waste haulers and recyclers, staff coordinated and facilitated random sampling of households in Genesee County in regards to the amount (weight) of material recycled versus the total amount of waste material generated. Through the use of the U.S. Environmental Protection Agency’s standardized method for calculating recycling rates, we were able to determine the rate for each jurisdiction sampled while using those figures to calculate rates for jurisdictions with similar traits and number of households.

Genesee County Recycling Rate:
(Total MSW Recycled/Total MSW Generated) x 100
*Municipal Solid Waste consists of both trash and recyclables

Genesee County Residential Recycling Rate

Overall, Genesee County has seen approximately a 13% increase in the amount of recyclables recovered in residential programs since 2005. Also provided through partnerships with local waste haulers were the average participation rates for a number of local units throughout Genesee County. On a countywide average, 39% of the households in Genesee County participate in some form of residential recycling program.

2011 Countywide Residential Recycling Rate: 6%

Increasing Genesee County Participation

In studying the participation rates of the local communities in Genesee County, we have discovered there are definite benefits and obvious shortfalls in resident participation in the local recycling programs. The principal shortfall in Genesee County is the absence of a residential recycling program in the City of Flint. The City of Flint makes up nearly a quarter of the population in Genesee County and is behind the times by not offering curbside recycling to its residents. Currently we estimate that roughly 5% of

Get Flint Recycling!

- ❖ **Over 65 million pounds of waste are generated per year by the City of Flint**

Opportunity for:

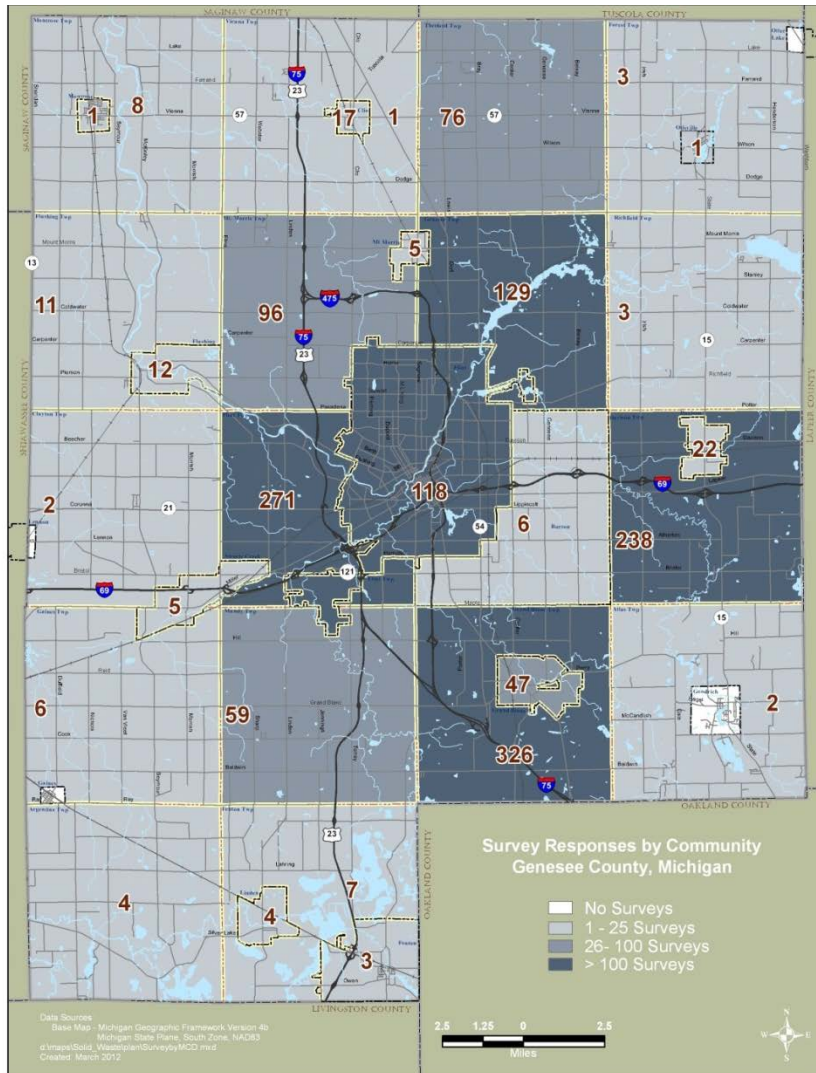
- ❖ **Over 40,000 additional households to have access to recycling**

- ❖ **Diversion of 14 million pounds of waste from area landfills annually** (assuming the average 6.69 pounds per households per week for cities)

households in the City of Flint are participating in a residential recycling program. With the implementation of a recycling program, backed by a resident education program, the county participation average of 29% could easily be attainable. Due to the current absence of a program in Flint, we estimate there are an added 65 million pounds of waste per year going to area landfills that would otherwise be diverted.

Another serious shortfall is the lack of recycling options for multi-family residents in Genesee County. The 2010 U.S. Census American Community Survey estimates that multi-family units make up roughly 17% of the housing in our local communities, and virtually all of them do not offer recycling to their residents. There are a number of challenges surrounding the waste systems in place in multi-family housing. Each development contracts with a waste hauler of their choice, and recycling is generally not a part of that discussion. Communities are encouraged to explore the feasibility

of extending recycling options to multi-family residences by local ordinance or any other method they choose. Extending these options to multi-family dwellers could equip an additional 27,000 households with the tools needed to greatly reduce their impact on local waste streams.



Public Needs Assessment

In order to gain a public perspective about the effectiveness of our solid waste system, a survey was sent out to the GCMPC public participation list (which contains 1,350 people). It was also sent out to all local units of government to distribute and to all of the residents who are signed up for Rewards for Recycling in Genesee County (which contains about 50,000 people). The survey asked for the respondents to note which community they resided and then proceeded with general questions about solid waste and recycling services.

Overall, there were approximately 1,500 responses received. Staff broke down a few of the questions specifying communities with a lower than average recycling rate (6% in the county) and those with an average or above average recycling rate. The data here is clear that those with higher recycling rates in their communities are more satisfied with their services offered. Surprisingly, almost 70% of the respondents indicated that they do not recycle hazardous or electronic waste. The feedback that staff received helped shape the goals and implementation steps of the plan to better serve the residents of Genesee County (Technical Report #2, Appendix E).

Planning for Our Future

In collaboration with the Solid Waste Management Planning Committee (SWMPC), staff was able to analyze the current solid waste system through a visioning and P-SWOT (Perfect System, Strengths, Weaknesses, Opportunities and Threats) process. The goal of this process was to provide the committee with the opportunity to discuss the current issues of the solid waste system and how they envision the solid waste system in the future.

It is a requirement for Genesee County to select a plan for the solid waste management system. Based on the goals and previous mentioned analysis, the plan calls for inclusion of recycling, landfilling and education in resource recovery to manage the waste system. The following alternative system strategies show varying levels of volumes based on their percentage goal of the waste stream. These were used for the purpose of determining which alternative system percentages would be attainable over the next 10 years.



Description of Alternatives		
Type of System	Technology	Percentage of Waste Stream
Low Volume		
	Waste Reduction	1-2
	Recycling	4-6
	Composting	2-3
	Landfill	89-93
Medium Volume		
	Waste Reduction	4-5
	Recycling	12-16
	Composting	6-7
	Landfill	75-79
High Volume		
	Waste Reduction	6-9
	Recycling	18-22
	Composting	9-12
	Landfill	57-67

In order to meet the goals of the plan, alternative systems were evaluated for their effectiveness. The goal of the county is to achieve approximately 15% reduction of waste being generated in the county.

One of the most vital components of the solid waste system is to increase awareness of

recycling opportunities to Genesee County residents and businesses. The accompanying chart identifies means by which that can be accomplished; some of these activities are already practiced regularly in the County.



- Commercial and Residential Waste Assessments and Sorts
- Stickers for Bins
- Flyers
- E-mail Distribution List
- Newspaper / Online Publicity
- Workshops / Presentations
- Annual County-Wide Newsletter
- School Presentations
- Events throughout the County

I n t r o d u c t i o n

Goals and Objectives

To comply with Part 115 and its requirements, each Plan must be directed toward goals and objectives based on the purposes stated in Part 115, Sections 11538.(1)(a), 11541.(4) and the State Solid Waste Policy adopted pursuant to this Section, and Administrative Rules 711 (b)(i) and (ii). At a minimum, the goals must reflect two major purposes of Solid Waste Management Plans:

- 1) To utilize to the maximum extent possible the resources available in Michigan’s solid waste stream through source reduction, source separation and other means of resource recovery and;
- 2) To prevent adverse effects on the public health and environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and ground and surface waters.

This Solid Waste Management Plan works toward the following goals through actions designed to meet the objectives described under the respective goals in which they support:

Goal One:

Implement and maintain an integrated solid waste management plan to ensure a healthy environment and financially sound waste management system.

- a. Monitor solid waste imports and exports to track long term disposal capacity.

- b. Improve the solid waste database to increase the quality and accuracy of data collection methodology and reporting. Expand the database to include multi-family housing. Communities are encouraged to request monthly or quarterly reports from their waste hauler.
- c. Document and evaluate previous efforts of the program to show successes as well as shortcomings of past efforts. Provide recommendations to improve efforts moving forward with implementation of the plan.
- d. Evaluate the Genesee County Solid Waste Ordinance as well as best practices for enforcement strategies.

Goal Two:

Continue to improve education and awareness of recycling and reuse of materials to promote reduction of waste in the county.

- a. Evaluate best practices from other counties in Michigan and around the country for education programs. Pursue grant funding for education.
- b. Expand the recycling education program beyond presentations in the classroom to include a recycling curriculum that is available to teachers.
- c. Provide increased outreach to reach the adult population in Genesee County. This would include updating community websites and newsletters, as well as making presentations to each community, with current information about recycling opportunities specific to each community.
- d. Educate and advise local municipalities and businesses with the cost benefits of reducing waste generation, and methods or recommendations of doing so (i.e. Pay-As-You-Throw, etc.).

Goal Three:

Implement a sustainable solid waste program with the main objective of reducing the overall amount of waste generated in Genesee County by 15%, utilizing resource conservation technologies such as recycling and composting.

- a. Establish annual goals for evaluation of waste generation, creating a metric system to measure progress.
- b. Recommend implementation of a residential curbside recycling program in the City of Flint with an incentive program.
- c. Offer to conduct waste assessments within the commercial sector to evaluate volumes of waste and recommend methods to increase recycling as well as proposed cost savings.
- d. Research and make recommendations of implementing a MRF in Genesee County. As part of this recommendation, specify if the facility should be a public or private facility (or both), the appropriate size of the facility for the amount of waste it would take in, associated costs, etc.

Goal Four:

Develop a solid waste program that utilizes our assets and resources from the hauler, landfill and recycling industries, giving local units and businesses a competitive advantage to help retain and attract economic development in Genesee County.

- a. Utilizing comparable organizations and authorities as examples formulate a plan for potential revenue and expenditures based on programs and facility operations.
- b. Collaboration, efficiencies, and partnerships with local communities to reduce costs, increase recycling opportunities, and minimize the overall environmental footprint.

Database

Identification of sources of waste generation within the county, total quantity of solid waste generated to be disposed, and sources of information.

The database section elaborates on the sources of waste generation within Genesee County and indicates the total quantity of solid waste generated to be disposed and diverted. This information is a crucial factor in determining future landfill capacity as well as an indicator of where additional efforts need to be made to help divert waste from the landfills.

Sources of Waste Generation

Waste in Genesee County comes from a variety of sources; in general, the majority of non-hazardous waste generated is municipal solid waste or MSW, which includes residential, commercial and industrial land uses. The rest of the waste is made up of construction and demolition debris or CDD and industrial special wastes or ISW.

Residential Waste

Methodology

Residential waste generation for Genesee County was calculated based on the Recycling Rate Assessment completed by staff (see Technical Report #1, Appendix E). The study provides a sample survey of total waste generated and recycled by households which provides an average amount for residential waste generation and the amounts diverted from the landfills. Through our partnerships with local waste haulers and recyclers, staff coordinated and facilitated random sampling of households in Genesee County in regards to the amount (weight) of material recycled versus the total amount of waste material generated.

Through the use of the U.S. Environmental Protection Agency's standardized method for calculating recycling rates, staff was able to determine the rate for each jurisdiction sampled while using those figures to calculate rates for jurisdictions with similar traits and number of households.

$$\text{Recycling Rate} = (\text{Total Residential Recycled} / \text{Total Residential Generated}) \times 100$$

Staff developed a system to survey three local units; one in each of the following categories:

1. City
2. Urban Township (> 5,000 housing units)
3. Rural Township (< 5,000 housing units)

Through random sampling of each category, an average weight recycled and average weight of waste generated per housing unit was determined. This was then used to calculate the recycling rate for each of the other local jurisdictions. Staff was then able to calculate an estimated countywide recycling rate of 6%, as well as an estimated recycling rate by jurisdiction.

In order to get a sample with a 95% confidence level with a 5% confidence interval, 350 or more households were surveyed in each local unit. There was no sorting of materials, just strictly weighing the material that comes in on the truck. Staff coordinated these efforts with local waste haulers



Commercial Waste Generation

Methodology

Commercial waste generation for the county was one of the more difficult data pieces to account for in the development of this plan as commercial and industrial waste contracts are typically between two private entities. With local data not available, staff reviewed a variety of data sources and methodologies. Staff concluded that national data averages for commercial waste generation and diversion may not accurately reflect our area's trends, however, the

methodology used by Washtenaw County in their Solid Waste Plan Update (2000) to develop their commercial waste generation and diversion estimates seemed sound and could be slightly modified to calculate Genesee County quantities.

The Washtenaw County methodology was developed by surveying a sample of local businesses regarding their waste and diversion quantities. They used the sample data to make assumptions regarding specific business sectors such as per employee waste generation quantities and diversion rates. The benefit of this methodology is that when projecting future waste generation and diversion quantities for industries one can better account for shifts in the economy, such as a workforce moving from a manufacturing based economy to a service based economy, that may dramatically increase or decrease waste generation and diversion. These quantities and rates were used with Genesee County industry sector employee data and employment projections to calculate current and future waste and diversion quantities for the county as a whole. This data was then used to create growth factors for future years for waste and diversion quantities. Recognizing that the quantities generated from this methodology are estimates, staff concluded that the growth factors themselves were developed from a sound methodology and should be used for further analysis in the development of the plan.



To estimate commercial waste generated in the current year (2010), staff subtracted residential waste quantities provided by the local units of government from the DEQ Municipal Solid Waste (MSW) generation total for Genesee County.

Total Municipal Solid Waste – Residential Waste = Commercial Waste

This quantity is identified as the base quantity of commercial waste generated for the plan. The calculated growth factor percentages were applied to this base quantity to generate future commercial waste generation. The commercial waste generation growth factor percentages were calculated from the corresponding industry sector charts listed in Technical Report 1 of Appendix E.

Year	Total Commercial Waste Generated % Decrease
2010	-
2015	1.2%
2020	0.6%
2025	1.9%
2030	1.5%
2035	1.3%

Industry	Waste Generation Rate lbs./employee/day	Work Days
Manufacturing	21.36	6.33
Other	5	5
Transportation	4.75	5
Finance	4.75	5
Retail	16.31	6.44
Wholesale	10.21	6.43
Service	5.41	5.71
Government	4.75	5

Total Waste Generated

The figure below details the total waste generated for 2010 in Genesee County, as well as projects out waste generation through 2035 using the growth rate of the population projections from the *Genesee County Long Range Transportation Plan 2035*. This estimated growth rate of waste generation gives the county an idea of how to plan for increases in waste and look for methods to help reduce waste generation. Overall, if the population grows at a similar rate as projected, Genesee County will see an increase of 10.13 % in total annual waste generation from 1.4 million cubic yards in 2010 to 1.54 million cubic yards in 2035. The increase in waste is coming primarily from the residential sector (showing an overall 30% increase); as the commercial sector foresees a gradual 6.5% decrease over the next 25 years due to a shift in the manufacturing sector industry.

Sector	Total Waste Generated (cubic yards per year)					
	2010	2015	2020	2025	2030	2035
Residential*	443,479	530,029	536,584	550,456	563,700	576,610
Commercial	818,593	817,611	817,120	815,567	814,344	813,285
MSW Sub-total	1,262,072	1,347,640	1,353,704	1,366,023	1,378,044	1,389,895
Construction / Demolition	74,484	79,534	79,892	80,619	81,328	82,027
Industrial Special Waste	66,221	70,711	71,029	71,675	72,306	72,928
Total Annual Cubic Yards	1,402,777	1,497,885	1,504,625	1,518,317	1,531,678	1,544,850
Population	425,790	454,666	456,726	460,880	464,923	468,938
Pop Growth Rate (%)	NA	6.78%	0.45%	0.91%	0.88%	0.86%

*Does not include multi-family data.

Genesee County does not anticipate any problems associated with managing the stream of solid waste generated in the County. Approximately 1,402,777 cubic yards of waste are generated in Genesee County annually (approximately 3,843 cubic yards/day),

based on 2010 data. Roughly, 107,922 cubic yards of that generated waste is diverted from the waste stream, annually, through various resource conservation efforts. This leaves approximately 1,294,855 cubic yards of waste needing disposal on a yearly basis.

Total Genesee County Waste	
Total Waste Generated (annually)	1,402,777 cubic yards
Total Waste Diverted (annually)	107,922 cubic yards
Total Waste Needing Disposal (annually)	1,294,855 cubic yards

Solid Waste Disposal Area Summaries

Inventory and description of all solid waste disposal areas within the County or to be utilized by the County to meet its disposal needs for the planning period.

There are 3 landfills in operation that are located in Genesee County (Brent Run, Citizens Disposal and Richfield Landfill). All landfills accepting waste in and out of the County are privately owned. GCMPC requested that all facility owners of disposal, transfer stations and recycling facilities complete description surveys for the Plan amendment. GCMPC has requested surveys and reviewed those corresponding descriptions. The Venice Park landfill in Shiawassee County is included in this plan as well; about 20% of Genesee County's waste is exported there, so the facility description is provided for purposes of showing that Genesee County will continue to be able to export waste to that location over the next 20 years. Also listed as part of the facility descriptions are recycling and transfer stations that responded to the request for facility descriptions. Facility Descriptions are located in the Selected System section of the plan and begin on page 53.



Solid Waste Collection Services and Transportation Infrastructure

The following describes the solid waste collection services and transportation infrastructure that will be utilized within the County to collect and transport solid waste.

The solid waste and collection services and transportation infrastructure is listed in the Selected System section, on page 60.

Evaluation of Deficiencies and Problems

The following is a description of problems or deficiencies in the existing solid waste system.

The current solid waste system has been evaluated for potential drawbacks specifying where improvements could be made. Based on our data collection efforts, the following problems within Genesee County's solid waste system were identified and then explained how they could be addressed with specified goals:

1. Recycling

As part of the attempt to correctly identify the efforts of recycling in our community, it is evident that there are a few shortfalls in the residential and commercial sectors. While the national average recycling rate in 2009 was 35%, numbers in Genesee County reflect a far different story. In 2005, our residential recycling rate was only 3.5%. Five years later, Genesee County has seen little improvement in its recycling rate, with residential recycling rising to a 6% recycling rate.

Goal Addressing this Issue: Direct attention towards increasing the diversion rate through promotion, education and awareness, as well as create incentive programs, such as Pay-as-You-Throw that will help decrease the disposal rate in the county. It should also be recommended that the City of Flint, the largest municipality and producer of the most waste in the county, implement curbside recycling as part of their waste service program. According to our waste generation projections, residential waste will rise over the next 25 years. However, focusing services and programs to the residential sector will help to alleviate waste generation in the county. A recycling goal in the plan should also be directed towards recommendation of researching and possibly implementing a MRF in Genesee County.



2. Education

The education aspect of the Solid Waste program has always been crucial to delivering and promoting messages and events to the general public. A large part of the education and awareness program is conducting recycling presentations at schools throughout Genesee County so that children begin to learn at a young age the importance of recycling in their communities. Staff also promotes events such as the biannual Household Hazardous Waste collection days, as well as being present at local conventions and events to make our program aware to citizens. Despite all of these positive efforts, the education program lacks the overall strength it needs to reach more people, particularly the adult population. According to the Genesee County Recycling Assessment (Appendix E), the average participation rate in recycling is 39% (percentage of residential population that participates in recycling) with an average recycling rate of just 6% (percentage of waste that is recycled).

Goal Addressing this Issue: To address the issue of education, the county will need to further expand the education program to reach a greater population of adults. This effort could include providing each household with a sticker to place on their bin that will be a reminder of what can be recycled. Additional efforts should be made to educate county residents of Household Hazardous Waste (HHW) and Electronic Waste disposal opportunities to get more people to participate. As shown through the public needs assessment survey (Technical Report 2, Appendix E), the majority of residents get their information through their local waste hauler or community. Thus implementing standardized and current information on those local websites and newsletters would provide the public with updated information on what kinds of materials they can recycle as well as provide event information, such as the HHW collection days.

3. Data Collection

With the current and past Solid Waste Management Plans, it is evident that commercial data collection is a difficult data set to obtain and does not provide the same accuracy that we find with our residential data collection methods. This affects the rest of the planning process by not being able to provide the most accurate outlook into capacity needs and programs needed to improve recycling with businesses in the county.

Goal Addressing this Issue: As part of the next plan update, the commercial data collection methodology should be addressed as staff looks for ways to improve this process. This may include reviewing methodologies in other states and finding a cost-efficient way to collect, review and analyze obtained data.

4. Coordination

Currently, the local units in Genesee County contract with various haulers at different prices and often times receive different services (i.e. some don't receive recycling; some communities have implemented Pay-As-You-Throw or Rewards for Recycling, etc.). This results in more trips by haulers to communities in close proximity, as well as higher costs for some communities by not sharing the same contracted services. There is also no coordination with the collection of commercial waste and residential waste; local ordinances specifying that businesses contract with the same hauler as the municipality would result in a more standardized and cost-effective program.

Goal Addressing this Issue: In an effort to promote cost-effectiveness for all communities, it is suggested to encourage communities to collaborate for hauling contracts that will promote more streamlined solid waste and recycling services.

5. Enforcement

Accountability of waste haulers in the county has not been tracked consistently due to a limited Solid Waste budget and staff time. Without proper enforcement, waste haulers will not be charged with violations when they occur and held accountable for their actions. More effective enforcement will help to ensure a safe and healthy environment for the businesses and residents of Genesee County.


Goal Addressing this issue: Alter the Ordinance to specify how enforcement will be completed on a consistent basis. Enforcing the Ordinance will require designated staff time and should become a Solid Waste budgetary item.

Demographics

The following presents the current and projected population densities and centers for five and ten year periods, identification of current and projected centers of solid waste generation including industrial solid waste for five and ten year periods as related to the Selected Solid Waste Management System for the next five and ten year periods. Solid waste generation data is expressed in tons or cubic yards, and if it was extrapolated from yearly data, then it was calculated by using 365 days per year, or another number of days as indicated.

Genesee County 2010-2035 Socioeconomic Projections *						
Employment Category	2010	2015	2020	2025	2030	2035
Manufacturing	22,970	20,432	18,962	17,516	16,077	14,763
Other	13,102	13,693	13,876	13,778	13,804	13,846
Transportation and Public Utilities	6,075	6,187	6,189	6,053	5,932	5,798
Finance, Insurance and Real Estate	15,117	15,489	15,654	15,453	15,337	15,205
Retail Trade	28,023	27,966	27,707	27,009	26,553	26,126
Wholesale Trade	7,164	6,792	6,479	6,090	5,708	5,328
Services	105,186	112,086	117,666	120,728	124,384	128,129
Government	26,486	26,461	26,411	26,366	26,427	26,511
Total Employment	224,123	229,106	232,944	232,993	234,222	235,706
County Population Estimates	425,790	454,666	456,726	460,880	464,923	468,938

*These projections did not factor in the 2010 U.S. Census numbers.



It is projected that Manufacturing, Transportation and Public Utilities, Retail Trade, Wholesale Trade, and Government jobs will all decrease over the next 25 years. However, Services and Other job categories (which includes agricultural and forestry jobs) are projected to increase. The Services sector is substantially going to increase, resulting in an overall county estimate of approximately 11,000 more jobs by the year 2035. These projections significantly affect commercial waste generation estimates as each industry sector produces different amounts of waste per employee.

Land Development

The following describes current and projected land development patterns, as related to the Selected Solid Waste Management System, for the next five and ten year periods.

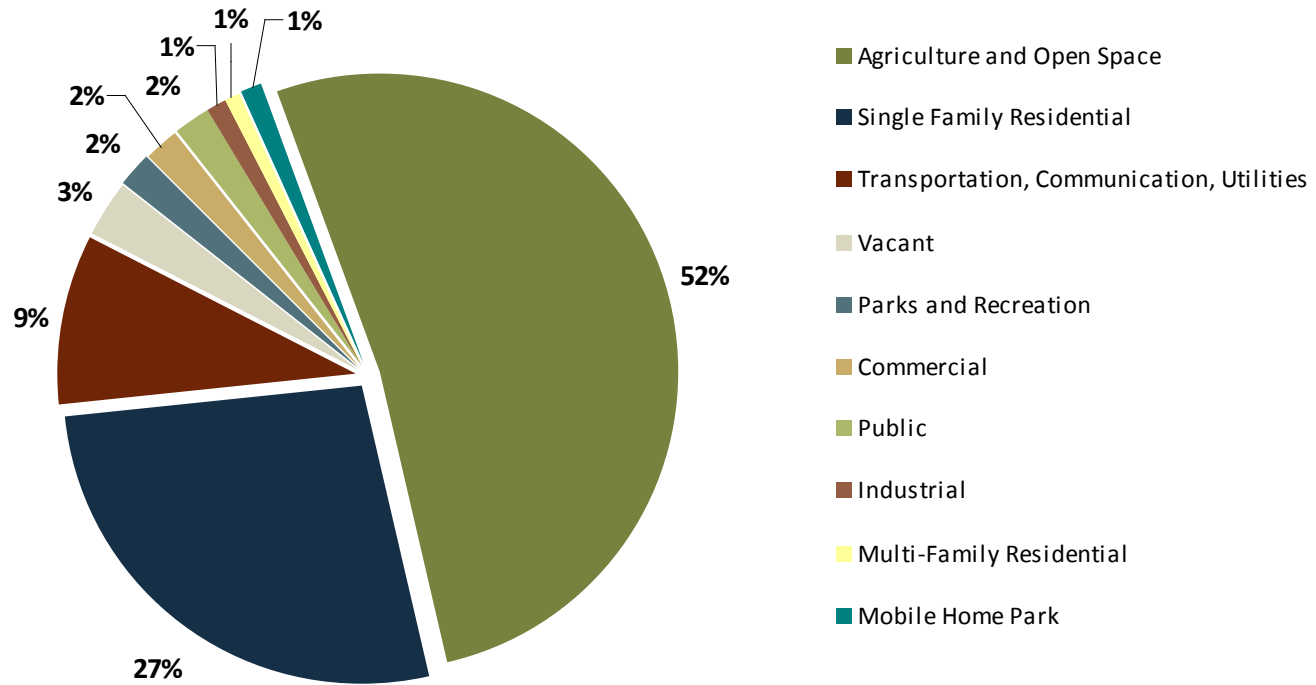
In 2006, GCMPC performed an analysis of the past and current land use trends in Genesee County. The results of this analysis show that of the nearly 410,000 acres that make up Genesee County, 209,981 of those acres are agricultural and other undeveloped land. However, mainly due to residential development in our rural townships, agricultural land is depleting. Of the remaining land uses, the single family residential (SFR) use dominates the landscape. A total of 57% of the “built” environment in Genesee County is comprised of SFR development.

2006 Existing Genesee County Land Use		
Classification	Acreage	% of County
Agriculture and Open Space	210,062	52%
Single Family Residential	109,760	27%
Transportation, Communication, Utilities	34,750	9%
Vacant	13,645	3%
Parks and Recreation	9,124	2%
Commercial	8,813	2%
Public	8,327	2%
Industrial	5,863	1%
Multi-Family Residential	3,802	1%
Mobile Home Park	3,253	1%
Total Acreage	407,399	100%



Land use trends in the county have relied heavily on land consumption with the majority of development occurring on agricultural lands and other open spaces. With a quarter of the county consisting of Single Family Residential developments and with residential waste currently 35% of the total waste generated in the county, it is important to take into consideration land development trends when projecting solid waste capacity in Genesee County. Possible increases in waste generation may result from the residential sector if these land use trends should continue.

Percent of Land Use in Genesee County (2006)



Solid Waste Management Alternatives

The following briefly describes all solid waste management systems considered by the County and how each alternative will meet the needs of the County. The manner of evaluation and ranking of each alternative is also described. Details regarding the Selected Alternatives are located in the following section. Details regarding each non-selected alternative are located in Appendix B. The alternatives from the 2000 Solid Waste Management Plan were analyzed for the inclusion of economical and environmental aspects. The current predominant method of disposal in Genesee County is disposing of waste at four major landfill sites, which includes one located in Shiawassee County. The details of the selected alternatives are in the following section, while details of the non-selected alternatives are located in the appendix.

Selected Solid Waste Management System

Genesee County has selected a plan for solid waste management that calls for a combination of techniques to reduce the amount of solid waste being generated in the county. The selected system as follows fits the characteristics and needs of Genesee County. The implementation of the selected system will still be managed by GCMPC. The private sector will continue to also be involved with the collection, disposal and recycling of solid waste generated in the County. The current system for waste disposal in Genesee County is based on a plan that includes recycling, landfilling and education in resource recovery. Because Genesee County has an established solid waste management system, this plan amendment is focused primarily on the following items as means to enhance and improve the current system:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expand the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, implementing a requirement for multi-family units to have access to recycling, encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a MRF .
- Utilizing assets and resources in the County by developing partnerships among local communities to reduce costs and increase recycling opportunities.

The Selected Solid Waste Management System

The Selected Solid Waste Management System (Selected System) is a comprehensive approach to managing Genesee County's solid waste and recoverable materials. The Selected System addresses the generation, transfer and disposal of Genesee County's solid waste. It aims to reduce the amount of solid waste sent for final disposal by volume reduction techniques and by various resource conservation and resource recovery programs. It also addresses collection processes and transportation needs that provide the most cost effective, efficient service. Proposed disposal areas location and capacity to accept solid waste are identified as well as program management, funding, and enforcement roles for local agencies. Detailed information on recycling programs, evaluation, and coordination of the Selected System is included in Appendix B. Following is an overall description of the Selected System:

Selected Solid Waste Management System

Genesee County has selected a plan for solid waste management that calls for a combination of techniques to reduce the amount of solid waste being generated in the county. The selected system as follows fits the characteristics and needs of Genesee County. The implementation of the selected system will still be managed by GCMPC. The private sector will continue to also be involved with the collection, disposal and recycling of solid waste generated in the County.

Summary of Components

The current system for waste disposal in Genesee County is based on a plan that includes recycling, landfilling and education in resource recovery. Because Genesee County has an established solid waste management system, this plan amendment is focused primarily on the following items as means to enhance and improve the current system:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expand the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, implementing a requirement for multi-family units to have access to recycling, encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a MRF .
- Utilizing assets and resources in the County by developing partnerships amount local communities to reduce costs and increase recycling opportunities.

It will be the attempt of this plan to develop a flexible and sound strategy for management of the waste system. It is the intent to review our new plan in five (5) years in order to adjust to current and projected needs within Genesee County.

The following are technologies that are available to manage and sustain the waste management system in Genesee County:

1. Waste Reduction: As a county planning agency, although we cannot mandate source reduction of solid waste, education is a key component to achieving overall reductions in waste generation. The industrial



and commercial sectors are a large factor in making significant improvements in this area as incentives to reduce solid wastes are economical and feasible. Voluntary waste assessments could be conducted in commercial and industrial sectors to help improve overall reductions.

2. Composting: This is a low technology application for reducing yard and leaf waste from the waste stream. Currently the County relies on local municipalities to manage yard waste. Since the statewide ban on landfilling of yard waste was enacted, communities have been required to establish alternatives, such as composting for management of this element. Legislation has, in the past and recently, been introduced to exempt landfills from the yard waste ban. Should legislation of this nature pass it could have a significant impact on the amount of additional waste that enters the County landfills. Additional yard waste in the landfills could also negatively affect the County wide diversion rates. Education and implementation of local compost programs would help to deter compost materials from the landfills.

3. Recycling: Recycling is the separation, collection and processing of materials that would otherwise become solid waste, for conversion into raw materials or new products. As specified in the Genesee County Recycling Rates Assessment, the current average county-wide residential recycling rate is approximately 6% and the average participation rate is 39%, with all local units participating in curbside recycling except for the City of Flint. Waste that has been diverted from landfills in the residential sector has increased by 13% since 2005. One of the goals of the plan addresses increasing the recycling rate along with utilizing other resource conservation techniques to reduce wastes being generated by 15%. While recycling is also practiced throughout the commercial and industrial sectors, data for those sectors was not obtained due to the difficulty of obtaining data (commercial and industrial sectors all have private contracts with waste haulers).



Education is a key component of increasing recycling rates in all sectors. This will include recommending implementation of a curbside recycling program in the City of Flint, encouraging communities to adopt recycling incentive programs such as Pay-As-You-Throw and conducting waste assessments or

sorts. Additionally, more research is underway that looks at implementation of a MRF in Genesee County that would handle recyclable processing for communities within and outside of the county, creating jobs and a viable revenue source for the solid waste program. If choosing the single stream option for operating a MRF, it would be more economical and reduce barriers to recycling, which is beneficial for the customers and the haulers.

4. Landfilling: The landfilling of solid waste is the final component of the solid waste system in Genesee County and will continue to remain a viable technology for disposal of wastes. Landfills must be properly constructed, licensed and operated.

Summary

The most effective solid waste management techniques for Genesee County will be a combination of all of the aforementioned technologies. In short term, the plan will focus on increasing composting and recycling throughout the communities in the county, while the remaining waste should be handled through the landfill system.

Importation and Exportation Authorizations

Importing or exporting solid waste with Genesee County is contingent upon the following:

- Genesee County must have ample space to accommodate solid waste imported from other counties.
- Should a county choose to impose amount restrictions on Genesee County, the restrictions will be mutual.
- Genesee County must be named in the importer's/exporter's respective Solid Waste Management Plans.

The following tables specifically list only those Counties that responded to Genesee County's requests for import/export authorizations.



Import Authorization


If a Licensed solid waste disposal area is currently operating within the County, disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the CONDITIONS AUTHORIZED in Table 1-A.

Table 1-A:

Current Import Volume Authorization of Solid Waste					
IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME ¹	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS ²
Genesee	Allegan	N/A			P
Genesee	Bay	N/A			P
Genesee	Calhoun	N/A			P
Genesee	Charlevoix	N/A			P
Genesee	Clinton	N/A			P
Genesee	Eaton	N/A			P
Genesee	Grand Traverse	N/A			P
Genesee	Gratiot	N/A			P
Genesee	Ingham	N/A			P
Genesee	Kalamazoo	N/A			P
Genesee	Kalkaska	N/A			P
Genesee	Lapeer	N/A			P
Genesee	Lenawee	N/A	1,100TPD		P
Genesee	Livingston	N/A			P
Genesee	Montcalm	N/A			P
Genesee	Oakland	N/A			P
Genesee	Osceola	N/A			P
Genesee	Saginaw	N/A	1,000TPD		P
Genesee	Sanilac	N/A			P
Genesee	Shiawassee	N/A			P
Genesee	St. Joseph	N/A			P
Genesee	Tuscola	N/A			P
Genesee	Washtenaw	N/A			P
	Wayne	N/A		100,000gcy	P
Genesee	All other Michigan Counties	N/A			P

¹ Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

² Authorization indicated by P = Primary Disposal; S = Secondary Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section. TPD = Tons per day; gcy = gate cubic yards



If a new solid waste disposal area is constructed and operating in the future in the County, then disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the AUTHORIZED CONDITIONS in Table 1-B.

Table 1-B: Future Import Volume Authorization of Solid Waste Contingent on New Facilities Being Sited

(Not Applicable)


Export Authorization

If a licensed solid waste disposal area is currently operating within another County, disposal of solid waste generated by the EXPORTING COUNTY is authorized up to the AUTHORIZED QUANTITY according to the CONDITIONS AUTHORIZED in Table 2-A if authorized for import in the approved Solid Waste Management Plan of the receiving County.

Table 2-A:

Current Export Volume Authorization of Solid Waste					
IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME ¹	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS ²
Bay	Genesee	N/A			P
Clinton	Genesee	N/A			P
Grand Traverse	Genesee	N/A			P
Gratiot	Genesee	N/A			P
Ingham	Genesee	N/A			P
Lapeer	Genesee	N/A			P
Lenawee	Genesee	N/A	1,100TPD		P
Livingston	Genesee	N/A			P
Montcalm	Genesee	N/A			P
Oakland	Genesee	N/A			P
Osceola	Genesee	N/A			P
Saginaw	Genesee	N/A	1,000TPD		P
Sanilac	Genesee	Tri-City RDF			P
Shiawassee	Genesee	N/A			P
St. Joseph	Genesee	N/A			P
Tuscola	Genesee	N/A			P
Washtenaw	Genesee	N/A			P
Wayne	Genesee	N/A		100,000gcy	P
All other Michigan Counties	Genesee	N/A			P

¹ Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
² Authorization indicated by P = Primary Disposal; C = Contingency Disposal; S = Secondary Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section. TPD = Tons per day; gcy = gate cubic yards



If a new solid waste disposal area is constructed and operating in the future in another County, then disposal of solid waste generated by the EXPORTING COUNTY is authorized up to the AUTHORIZED QUANTITY according to the AUTHORIZED CONDITIONS in Table 2-B if authorized for import in the approved Solid Waste Management Plan of the receiving County.

Table 2-B: Future Export Volume Authorization of Solid Waste Contingent on New Facilities Being Sited

(Not Applicable)

Solid Waste Disposal Areas

The following identifies the names of existing disposal areas which will be utilized to provide the required capacity and management needs for the solid waste generated in Genesee County for the next five years and, if possible, the next ten years. Pages 50-56 contain descriptions of the solid waste disposal facilities which are located within the County and the disposal facilities located outside Genesee County which will be utilized by the County for the planning period. Additional Facilities within the County with applicable permits and licenses may be utilized as they are sited by this Plan, or amended into this Plan, and become available for disposal. If this Plan is amended to identify additional facilities in other counties outside Genesee County, those facilities may only be used if such import is authorized in the receiving County's Plan. Facilities outside of Michigan may also be used if legally available for such use. Note that the recycling facilities and transfer stations listed in the plan were those facilities that responded to the request.

Type II Landfill

- Brent Run Landfill
- Citizen's Disposal
- Richfield Landfill
- Venice Park Landfill

Type B Transfer Facility

- Genesee Waste Services
- Resource Recovery of Burton
- Mid-Michigan Recycling

Type III Landfill

Processing Plant

Incinerator

Waste Piles

Waste-to-Energy Incinerator

Other

Type A Transfer Facility

Recycling Centers:

- Averill Recycling Inc.

Additional facilities are listed on an attached page. Letters from or agreements with the listed disposal areas owners/operators stating their facility capacity and willingness to accept Genesee County's solid waste are in the Attachments Section.

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Brent Run Landfill

County: Genesee Location: Town: T9N Range:R5E Section(s): 23

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: _____

Public Private Owner: Waste Connections Inc.

Operating Status (check):

Waste Types Received (check all that apply):

- Open
- Closed
- Licensed
- Unlicensed
- Construction Permit
- Open, but Closure
- Pending

- Residential Recycling
- Commercial Recycling
- Industrial Recycling
- Construction & Demolition
- Contaminated Soils
- Special Wastes*
- Other: _____

*Explanation of special wastes, including a specific list and/or conditions:

Non-hazardous, non-regulated solid waste (soil, paint filters, etc.)

Site Size:

Total area of facility property	<u>543.89</u>	acres
Total area sited for use:	<u>243.17</u>	acres
Total area permitted:	<u>102.77</u>	acres
Operating:	<u>89.99</u>	acres
Not excavated:	<u>12.78</u>	acres
Current capacity:	<u>4,330,758</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed
Estimated lifetime:	<u>4.2</u>	years
Estimated days open per year:	<u>286</u>	days
Estimated yearly disposal volume:	<u>1,030,290</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	12,727	megawatts (2010)
Waste-to-energy incinerators:	NA	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Waste Management of Michigan / Venice Park Recycling and Disposal Facility

County: Shiawassee Location: Town: Range: Section(s):
T7N R4E 26-27

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: _____

Public Private Owner: Waste Management of Michigan

Operating Status (check): Waste Types Received (check all that apply):

- | | |
|---|--|
| <input checked="" type="checkbox"/> Open | <input checked="" type="checkbox"/> Residential |
| <input type="checkbox"/> Closed | <input checked="" type="checkbox"/> Commercial |
| <input checked="" type="checkbox"/> Licensed | <input checked="" type="checkbox"/> Industrial |
| <input type="checkbox"/> Unlicensed | <input checked="" type="checkbox"/> Construction & Demolition |
| <input checked="" type="checkbox"/> Construction Permit | <input checked="" type="checkbox"/> Contaminated Soils |
| <input type="checkbox"/> Open, but Closure | <input checked="" type="checkbox"/> Special Wastes* |
| <input type="checkbox"/> Pending | <input checked="" type="checkbox"/> Other: <u>Solidification Operation</u> |

*Explanation of special wastes, including a specific list and/or conditions:

Asbestos, Medical Waste

Site Size:

Total area of facility property	<u>346.97</u> acres
Total area sited for use:	<u>208.4</u> acres
Total area permitted:	<u>208.4</u> acres
Operating:	<u>96.7</u> acres
Not excavated:	<u>81.3</u> acres
Closed:	<u>30.4</u> acres
Current capacity:	<u>20,900,000</u> <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed
Estimated lifetime:	<u>17.4</u> years
Estimated days open per year:	<u>281</u> days
Estimated yearly disposal volume:	<u>923,880</u> <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed

(if applicable)

Annual energy production:	
Landfill gas recovery projects:	6.4 megawatts
Waste-to-energy incinerators:	megawatts

FACILITY DESCRIPTIONS

Facility Type: Transfer Station

Facility Name: Genesee Waste Services

County: Genesee Location: Town: Range: Section(s):

Address: 5125 N. Dort Highway, Flint

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Citizens Landfill

 Public Private Owner: Johnnie Moore

Operating Status (check):

Waste Types Received (check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> Open | <input checked="" type="checkbox"/> Residential |
| <input type="checkbox"/> Closed | <input checked="" type="checkbox"/> Commercial |
| <input checked="" type="checkbox"/> Licensed | <input checked="" type="checkbox"/> Industrial |
| <input type="checkbox"/> Unlicensed | <input checked="" type="checkbox"/> Construction & Demolition |
| <input type="checkbox"/> Construction Permit | <input type="checkbox"/> Contaminated Soils |
| <input type="checkbox"/> Open, but Closure | <input type="checkbox"/> Special Wastes* |
| <input type="checkbox"/> Pending | <input type="checkbox"/> Other: _____ |

*Explanation of special wastes, including a specific list and/or conditions:

Site Size:

Total area of facility property	<u>3.5</u>	acres
Total area sited for use:	_____	acres
Total area permitted:	_____	acres
Operating:	_____	acres
Not excavated:	_____	acres
Current capacity:	_____	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed
Estimated lifetime:	_____	years
Estimated days open per year:	<u>290</u>	days
Estimated yearly disposal volume:	_____	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed

(if applicable)

Annual energy production:	
Landfill gas recovery projects:	megawatts
Waste-to-energy incinerators:	megawatts

FACILITY DESCRIPTIONS

Facility Type: Transfer Station

Facility Name: Resource Recovery of Burton

County: Genesee Location: Town: Range: Section(s):

Address: 3376 Associates Dr, Burton

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Citizens Landfill

 Public Private Owner: Johnnie Moore

Operating Status (check):

Waste Types Received (check all that apply):

- | | |
|--|---|
| <input type="checkbox"/> Open | <input checked="" type="checkbox"/> Residential |
| <input checked="" type="checkbox"/> Closed | <input checked="" type="checkbox"/> Commercial |
| <input checked="" type="checkbox"/> Licensed | <input checked="" type="checkbox"/> Industrial |
| <input type="checkbox"/> Unlicensed | <input checked="" type="checkbox"/> Construction & Demolition |
| <input type="checkbox"/> Construction Permit | <input type="checkbox"/> Contaminated Soils |
| <input type="checkbox"/> Open, but Closure | <input type="checkbox"/> Special Wastes* |
| <input type="checkbox"/> Pending | <input type="checkbox"/> Other: _____ |

*Explanation of special wastes, including a specific list and/or conditions:

Site Size:

Total area of facility property	<u> 1.5 </u>	acres
Total area sited for use:	_____	acres
Total area permitted:	_____	acres
Operating:	_____	acres
Not excavated:	_____	acres
Current capacity:	_____	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed
Estimated lifetime:	_____	years
Estimated days open per year:	<u> 150 </u>	days
Estimated yearly disposal volume:	_____	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed

(if applicable)

Annual energy production:	
Landfill gas recovery projects:	megawatts
Waste-to-energy incinerators:	megawatts

FACILITY DESCRIPTIONS

Facility Type: Recycling Center

Facility Name: Averill Recycling Inc.

County: Genesee Location: Town: Range: Section(s):

Address: 220 S. Averill Street, Flint, MI 48506

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: _____

 Public Private Owner: Boyt Johnson

Operating Status (check):

Waste Types Received (check all that apply):

- | | |
|--|---|
| <input checked="" type="checkbox"/> Open | <input checked="" type="checkbox"/> Residential Recycling |
| <input type="checkbox"/> Closed | <input checked="" type="checkbox"/> Commercial Recycling |
| <input checked="" type="checkbox"/> Licensed | <input checked="" type="checkbox"/> Industrial Recycling |
| <input type="checkbox"/> Unlicensed | <input type="checkbox"/> Construction & Demolition |
| <input type="checkbox"/> Construction Permit | <input type="checkbox"/> Contaminated Soils |
| <input type="checkbox"/> Open, but Closure | <input type="checkbox"/> Special Wastes* |
| <input type="checkbox"/> Pending | <input type="checkbox"/> Other: _____ |

*Explanation of special wastes, including a specific list and/or conditions:

Site Size:

Total area of facility property	<u>14</u>	acres
Total area sited for use:	<u>14</u>	acres
Total area permitted:	<u>14</u>	acres
Operating:	___	acres
Not excavated:	___	acres
Current capacity:	___	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed
Estimated lifetime:	___	years
Estimated days open per year:	___	days
Estimated yearly disposal volume:	___	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed

(if applicable)

Annual energy production:	
Landfill gas recovery projects:	megawatts
Waste-to-energy incinerators:	megawatts

FACILITY DESCRIPTIONS

Facility Type: Solid Waste Processing Plant

Facility Name: Mid-Michigan Demolition Recycling Facility

County: Genesee Location: Town: Range: Section(s):

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: _____

 Public Private Owner: Mid-Michigan Recycling, L.C.

Operating Status (check):

Waste Types Received (check all that apply):

- Open
- Closed
- Licensed
- Unlicensed
- Construction Permit
- Open, but Closure
- Pending

- Residential
- Commercial
- Industrial
- Construction & Demolition
- Contaminated Soils
- Special Wastes*
- Other: _____

*Explanation of special wastes, including a specific list and/or conditions:

Site Size:

Total area of facility property	<u>3.7</u>	acres
Total area sited for use:	<u>3.7</u>	acres
Total area permitted:	<u>3.7</u>	acres
Operating:	<u>3.7</u>	acres
Not excavated:	_____	acres
Current capacity:	<u>0</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed
Estimated lifetime:	<u>20</u>	years
Estimated days open per year:	<u>0</u>	days
Estimated yearly disposal volume:	<u>0</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed

(if applicable)

Annual energy production:	
Landfill gas recovery projects:	megawatts
Waste-to-energy incinerators:	megawatts

Solid Waste Disposal Collection Services and Transportation

The following describes the solid waste collection services and transportation infrastructure which will be utilized within the county to collect and transport solid waste.

The corresponding chart on the following page identifies collection services by municipality as well as costs per household per month and is a key factor in analyzing potential coordination among local municipalities to combine contracts for cost-effectiveness. The City of Flint's cost per household per month for waste services is the highest in the County and the cost excludes curbside recycling, leaving the City of Flint as the only municipality in the county to not offer this service (Communities with Recycling Map, page 60).

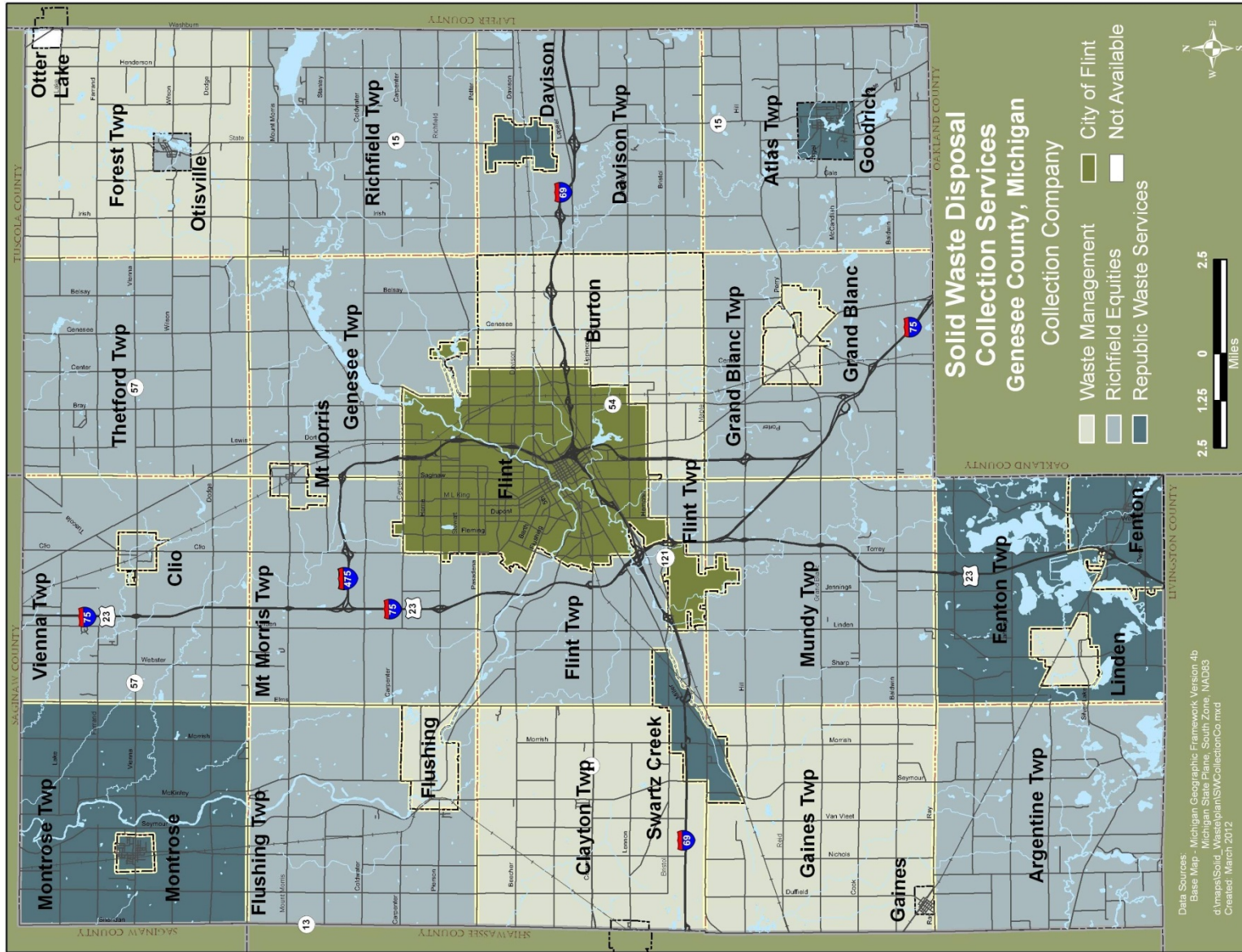
If you take a look at the corresponding map, Solid Waste Disposal and Collection Services, on page 59 it is apparent that there are discrepancies among municipalities and their contracts with collection companies. Numerous townships and cities that are within their boundaries utilize different waste haulers. If these municipalities work together, they could arrive at less expensive contracts with their haulers, resulting in services that are more streamlined all across the county.

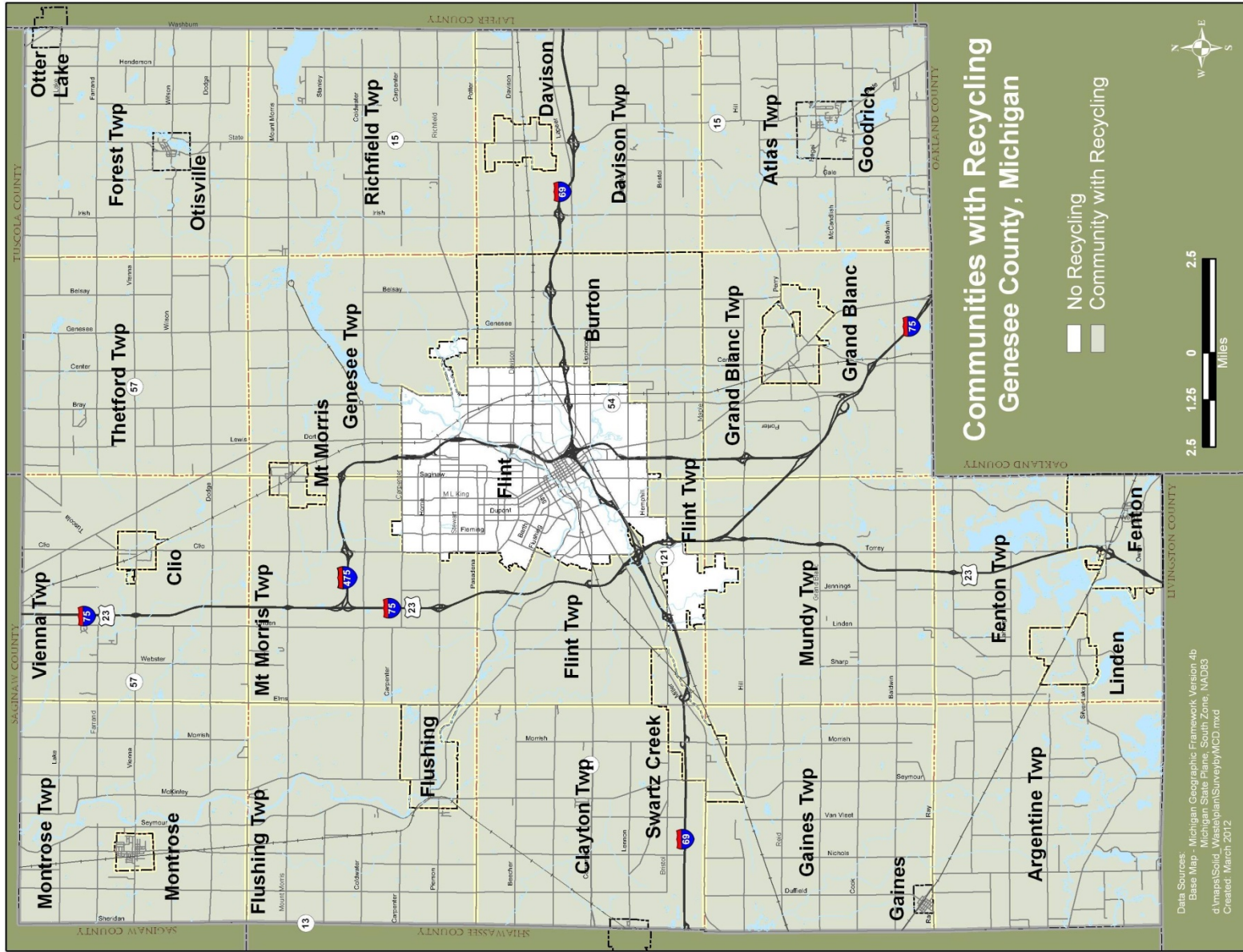
Upon initial review, it was noted that the following communities may see cost savings and expanded services if they combine waste hauler contracts:

- Forest Township and the Village of Otisville
- Davison Township and the City of Davison
- Grand Blanc Township and the City of Grand Blanc
- Atlas Township and the Village of Goodrich

Solid Waste Disposal Collection Services				HH Cost per Month
Municipality	Collection Company	Households		
Cities				
Burton	Waste Management	10,938		11.62
Clio	Richfield Equities	1,029		9.96
Davison	Republic	2,039		11.60
Fenton*	Republic	4,358		N/A
Flint	City of Flint	40,472		13.75
Flushing*	Waste Management	3,100		N/A
Grand Blanc	Waste Management	3,200		10.41
Linden	Republic	1,266		9.98
Montrose	Republic	581		9.17
Mt. Morris	Richfield Equities	1,068		8.78
Swartz Creek*	Republic	2,196		N/A
Townships				
Argentine	Richfield Equities	2,552		10.52
Atlas	Richfield Equities	2,200		8.52
Clayton	Waste Management	2,629		10.67
Davison	Richfield Equities	5,230		8.28
Fenton	Republic	5,837		10.00
Flint	Richfield Equities	9,693		9.25
Flushing	Richfield Equities	1,742		4.75
Forest	Richfield Equities	3,685		9.33
Gaines	Richfield Equities	200		5.00
Genesee	Waste Management	1,508		10.00
Grand Blanc	Waste Management	2,472		10.89
Montrose	Richfield Equities	8,865		10.00
Mt. Morris	Richfield Equities	10,785		8.96
Mundy	Republic	1,926		8.96
Richfield	Richfield Equities	7,925		9.03
Thetford	Richfield Equities	5,367		9.05
Vienna	Richfield Equities	2,989		8.75
	Richfield Equities	2,469		9.96
	Richfield Equities	4,678		9.83
Villages				
Gaines	Waste Management	128		10.89
Goodrich*	Republic	538		N/A
Lennon*	Waste Management	150		N/A
Otisville	Richfield Equities	285		8.85
Average Cost per HH				9.54

Average Cost per Household	
City	10.66
Township	9.04
Village	9.87
*Cost per HH not available	






Resource Conservation Efforts

The following chart describes the selected system’s proposed conservation efforts to reduce the amount of solid waste generated throughout the County. The annual amount of solid waste currently or proposed to be diverted from landfills is estimated for each effort to be used, if possible. Since conservation efforts are provided voluntarily and change with technologies and public awareness, it is not the Plan amendment’s intention to limit the efforts to only what is listed. Instead, citizens, businesses and industries are encouraged to explore the options available to their lifestyles, practices and processes, which will reduce the amount of materials requiring disposal.

Resource Conservation Efforts			
Effort Description	Estimated Diversion Tons / Yr		
	Current	5th yr	10th yr
Curbside Recycling (Residential)	9,370	28,618	54,148
Commercial / Industrial Recycling and Waste Reduction*	21,829	38,132	45,235
Household Hazardous Waste Collection	59	70	95
Yard Waste / Composting*	4,716	12,520	22,562
Total	35,974	79,340	122,040
Percentage Volume of Waste Generated	9%	18%	24%
*Estimated based on National EPA 2010 numbers			



Waste Reduction, Recycling and Composting Programs

Volume Reduction Techniques

The following describes the techniques utilized and proposed to be used throughout the County which reduces the volume of solid waste requiring disposal. The annual amount of landfill air space not used as a result of each of these techniques is estimated. Since volume reduction is practiced voluntarily and because technologies change and equipment may need replacing, it is not this Plan amendment's intention to limit the techniques to only what is listed. Persons within the County are encouraged to utilize the technique that provides the most efficient and practical volume reduction for their needs. Documentation explaining achievements of implemented programs or expected results of proposed programs is attached.

Volume reduction techniques used to conserve air space are implemented by the private sector.

As discussed in previous sections, the current waste system for Genesee County will rely on incorporating an integrated system of waste reduction, recycling, composting and landfilling. The plan will focus on the following:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expand the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, implementing a requirement for multi-family units to have access to recycling encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a MRF .
- Utilizing assets and resources in the County by developing partnerships among local communities to reduce costs and increase recycling opportunities.

Overview of Resource Recovery Programs

The following describes the type and volume of material in the County's waste stream that may be available for recycling or composting programs. How conditions in the County affect or may affect a recycling or composting program and potential benefits derived from these programs is also discussed. Impediments to recycling or composting programs which exist or which may exist in the future are listed, followed by a discussion regarding reducing or eliminating such impediments.

Currently, it is estimated that only about 9% of total waste generated in the county is actually being recycled, where there is actually opportunity to recycle close to 50% of total waste generated. These amounts are estimated due to limited public data available in the multi-family and commercial sectors. In order to tap into greater recycling rates, recycling and composting programs should be expanded in all sectors that result in increased participation.



Recycling programs within the County are feasible. Details of existing and planned programs are included in the following pages.



Recycling programs for the County have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:



Composting programs within the County are feasible. Details of existing and planned programs are included on the following pages.



Composting programs for the County have been evaluated and it has been determined that it is not feasible to conduct any of the programs because of the following:



Programs for source separation of potentially hazardous materials are feasible and details are included on the following pages.



Separation of potentially hazardous materials from the County's waste stream has been evaluated and it has been determined that it is not feasible to conduct any separation programs because of the following:

Recycling and Composting

The following is a brief analysis of the recycling and composting programs selected for the County in this plan. Additional information on operation of recycling and composting programs is included in Appendix A. The analysis covers various factors within the county and the impacts of these factors on recycling and composting. Following the written analysis the tables on pages 67-74 list the existing and proposed recycling, composting, and source separation of hazardous materials programs in the County and which will be continued as part of this Plan. It is not this Plan's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

Recycling

Currently, all local units of government with the exception of the City of Flint have curbside recycling programs in operation for single-family residential. In order to track the recycling and participation rates of each community, GCMPC coordinated with local units and private haulers to obtain actual data. The data was utilized in the Genesee County Recycling Assessment Study that is in Appendix E of this plan. This study assesses how well Genesee County residents are recovering recyclables and offers recommendations to enhance our solid waste management systems here in the County.



Since 2006, GCMPC launched a recycling awareness campaign, invested in the Borrow Our Bins program, and implemented a school recycling education campaign, not to mention the countless hours of outreach

and promotion at area events. The principal shortfall in Genesee County is the absence of a residential recycling program in the City of Flint. The City of Flint makes up nearly a quarter of the population in Genesee County and is behind the times by not offering recycling to its residents. Currently

we estimate that roughly 5% of households in the City of Flint are participating in a residential recycling program. Due to the current absence of a program in Flint, we estimate there are an added 65 million pounds of waste per year going to area landfills that would otherwise be diverted. Simply adding curbside recycling in the City of Flint could bring an added 40,000 additional households into the recycling realm, potentially diverting approximately 14 million pounds of waste per year.

There are also a number of challenges surrounding the waste systems in place in multi-family housing which make up roughly 17% of households. Places like Ann Arbor, Michigan, Minneapolis and Minnesota have municipal ordinances in place mandating that all property managers are required to offer their residents the opportunity to recycle. One of the plan's goals is to encourage communities to explore the feasibility of extending recycling options to multi-family residences by local ordinance or any other method they choose. Additionally, incentive programs are a tool that could be used in communities, such as Pay-As-You-Throw waste collection, which can help communities boost recycling rates and decrease the amount of waste their residents contribute to Genesee County's three landfills.

Lastly, continuing and increasing education opportunities, with a focus on targeting adult populations, will help change behaviors among residents and businesses. Expanding the program will include waste assessments and sorts, as well as providing up to date information through each local unit to reach residents about how and what they can recycle.

Composting

This low technology application reduces homeowner’s grass clippings and leaves from entering the landfills. There are many benefits from composting, such that compost can be used as a soil conditioner and is an economic solution to purchased soil. These benefits should continually be part of the overall education outreach to residents. Currently, it is required by Michigan Law to have a program in place for picking up yard waste to prevent it from entering landfills.

Source Separation of Hazardous Wastes

The Household Hazardous Waste (HHW) Program is administered and run by GCMPC. The solid waste program’s budget currently allows for a HHW event to occur twice a year (spring and fall) and is free for all residents in Genesee County. If the solid waste program were to expand, there is consideration to expand the outreach of the HHW program as well as to include a permanent drop off site for residents to use throughout the year.

Conclusion

The selected system calls for the continuation of the private sector managing the County’s recyclable materials and compost. The purpose of the resource recovery portion of the selected system is to increase education and participation among private and public sectors to increase the resource recovery rate for Genesee County.



Existing and Proposed Recycling

Tables III-1 and III-4 can be read using the following legend:

- ¹ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.
- ² Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental; 5 = Private Owner/Operator; 6 = Other
- ³ Identified by c = curbside; d = drop off; o = onsite; and if other explained
- ⁴ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter
- ⁵ Identified by the materials collected by listing of the letter located by the material type. A = Plastics; B = Newspaper; C= Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2 etc.

Existing Recycling Programs - Table III-1

Program Name	Service Area ¹	Public or Private	Collection Point ³	Collection Frequency ⁴	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
Cities							
Recycling	Burton	Private	c	b	5	5	5
Recycling	Clio	Private	c	w	5	5	5
Recycling	Davison	Private	c	b	5	5	5
Recycling	Fenton	Private	c	b	5	5	5
Proposed	Flint	Public					
Recycling	Flushing	Private	c	b	5	5	5
Recycling	Grand Blanc	Private	c	w	5	5	5
Recycling	Linden	Private	c	b	5	5	5
Recycling	Montrose	Private	c	b	5	5	5
Recycling	Mt. Morris	Private	c	b	5	5	5
Recycling	Swartz Creek	Private	c	b	5	5	5
Townships							
Recycling	Argentine	Private	c	b	5	5	5
Recycling	Atlas	Private	c	b	5	5	5
Recycling	Clayton	Private	c	b	5	5	5
Recycling	Davison	Private	c	b	5	5	5
Recycling	Fenton	Private	c	w	5	5	5
Recycling	Flint	Private	c	w	5	5	5
Recycling	Flushing	Private	c	w	5	5	5
Recycling	Forest	Private	c	b	5	5	5
Recycling	Gaines	Private	c	b	5	5	5
Recycling	Genesee	Private	c	w	5	5	5
Recycling	Grand Blanc	Private	c	w	5	5	5
Recycling	Montrose	Private	c	b	5	5	5
Recycling	Mt. Morris	Private	c	b	5	5	5
Recycling	Mundy	Private	c	b	5	5	5
Recycling	Richfield	Private	c	b	5	5	5
Recycling	Thetford	Private	c	b	5	5	5
Recycling	Vienna	Private	c	b	5	5	5
Villages							
Recycling	Gaines	Private	c	b	5	5	5
Recycling	Goodrich	Private	c	b	5	5	5
Recycling	Otisville	Private	c	b	5	5	5

Proposed Recycling Programs - Table III-4

Program Name	Service Area ¹	Public or Private	Collection Point ³	Collection Frequency ⁴	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
Cities								
Recycling	Burton	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Clio	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Davison	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Fenton	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Proposed	Flint	Public	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Flushing	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Grand Blanc	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Linden	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Montrose	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Mt. Morris	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Swartz Creek	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Townships								
Recycling	Argentine	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Atlas	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Clayton	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Davison	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Fenton	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Flint	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Flushing	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Forest	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Gaines	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Genesee	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Grand Blanc	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Montrose	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Mt. Morris	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Mundy	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Richfield	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Thetford	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Vienna	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Villages								
Recycling	Gaines	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Goodrich	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Otisville	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5

Existing and Proposed Composting

Tables III-2 and III-5 can be read using the following legend:

¹ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

² Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental; 5 = Private Owner/Operator; 6 = Other

³ Identified by c = curbside; d = drop off; o = onsite; and if other explained

⁴ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter

⁵ Identified by Y = Yardwaste; H = Household Organics

⁶ Weekly in October and November

Existing Composting Programs - Table III-2

Program Name	Service Area ¹	Public or Private	Collection Point ³	Collection Frequency ⁴	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
Cities								
Yard Waste	Burton	Private	c	w	Y	1	5	1
Yard Waste	Clio	Private	c	w	Y	1	5	1
Yard Waste	Davison	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Fenton	Private	c	w	Y	1	5	1
Yard Waste	Flint	Public	c	w	Y	1		1
Yard Waste	Flushing	Private	c	w	Y	1	5	1
Yard Waste	Grand Blanc	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Linden	Private	c	w	Y	1	5	1
Yard Waste	Montrose	Private	c	w	Y	1	5	1
Yard Waste	Mt. Morris	Private	c	b, sp, su, fa ⁶	Y	1	5	1
Yard Waste	Swartz Creek	Private	c	w	Y	1	5	1
Townships								
Yard Waste	Argentine	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Atlas	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Clayton	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Davison	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Fenton	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Flint	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Flushing	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Forest	Private	o	b, sp, su, fa	Y	1	5	1
Yard Waste	Gaines	Private	o	b, sp, su, fa	Y	1	5	1
Yard Waste	Genesee	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Grand Blanc	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Montrose	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Mt. Morris	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Mundy	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Richfield	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Thetford	Private	o	b, sp, su, fa	Y	1	5	1
Yard Waste	Vienna	Private	c	b, sp, su, fa	Y	1	5	1
Villages								
Yard Waste	Gaines	Private	c	b	Y	1	5	1
Yard Waste	Goodrich	Private	c	b	Y	1	5	1
Yard Waste	Otisville	Private	c	b	Y	1	5	1

Proposed Composting Programs - Table III-5

Program Name	Service Area ¹	Public or Private	Collection Point ³	Collection Frequency ⁴	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
Cities								
Composting	Burton	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Clio	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Davison	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Fenton	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Flint	Public	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Flushing	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Grand Blanc	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Linden	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Montrose	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Mt. Morris	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Swartz Creek	Private	c	w	Y, H	1, 3, 5	5	1, 3, 5
Townships								
Composting	Argentine	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Atlas	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Clayton	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Davison	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Fenton	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Flint	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Flushing	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Forest	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Gaines	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Genesee	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Grand Blanc	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Montrose	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Mt. Morris	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Mundy	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Richfield	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Thetford	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Vienna	Private	c	w	Y, H	1, 5	5	1, 5
Villages								
Composting	Gaines	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Goodrich	Private	c	w	Y, H	1, 5	5	1, 5
Composting	Otisville	Private	c	w	Y, H	1, 5	5	1, 5

Existing and Proposed Source Separation of Potential Hazardous Materials

Since improper disposal of non-regulated hazardous materials has the potential to create risks to the environment and human health, the following programs have been implemented to remove these materials from the County’s solid waste stream.

Table III-3

Existing Source Separation of Potentially Hazardous Materials - Table III-3									
Program Name	Service Area	Public or Private	Collection Point	Collection Frequency	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²	
Household Hazardous and Electronic Waste Collection Day	Genesee County	Public	drop-off	bi-annual	AR, AN, B2, C, OF, P, PS, PH, U, OT (electronics, tires, perscriptions)	1	1, 5	1	
² Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental; 5 = Private Owner/Operator; 6 = Other									
⁵ Identified by the materials collected by listing of the letter located by that material type. AR = aerosol cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Fliters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Helath Care Products; U = Used Oil; OT = Other Materials and identified									

Table III-6

Proposed Source Separation of Potentially Hazardous Materials - Table III-6									
Program Name	Service Area	Public or Private	Collection Point	Collection Frequency	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²	
Household Hazardous and Electronic Waste Permanent Collection Site	Genesee County	Private	drop-off	N/A	AR, A, AN, B1, B2, C, H, OF, P, PS, PH, U, OT (electronics, tires, perscriptions)	5	5	1, 5	
² Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental; 5 = Private Owner/Operator; 6 = Other									
⁵ Identified by the materials collected by listing of the letter located by that material type. AR = aerosol cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Fliters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Helath Care Products; U = Used Oil; OT = Other Materials and identified									

Identification of Resource Recovery Management Entities

The following identifies those public and private parties, and the resource recovery or recycling programs for which they have management responsibilities.

The GCMPC will serve as an umbrella agency for resource recovery programs. An entity that is willing to administer a resource recovery program may contact our agency for assistance and direction. This may include, but is not limited to the following entities:

- Environmental Groups
- School System
- Local Units of Government
- Industry
- Commercial
- Waste Industry
- Community Groups
- Universities

Projected Diversion Rates

The following estimates the annual amount of solid waste which is expected to be diverted from landfills and incinerators as a result of the current resource recovery programs in five and ten years.

Projected Diversion Rates			
Collected Material	Projected Annual Tons Diverted		
	Current	5th Year	10th Year
Total Plastics	2,000	2,200	2,400
Total Paper	2,500	2,700	2,900
Total Glass	400	600	800
Yard trimmings	1,200	1,400	1,600
Total Wood Waste	550	750	950
Construction & Demolition	no data		
Food & Food Processing	1,200	1,400	1,600
rubber, leather, and textiles	750	950	1,150
Total Metals	800	1,000	1,200
Tires	no data		
Other Materials			
Batteries	no data		
Appliances	no data		
*Based on 2010 EPA MSW Generation Rate estimates			

Market Availability for Collected Materials

The following identifies how much volume that existing markets are able to utilize of the recovered materials which were diverted from the County's solid waste stream.

Market Availability for Collected Materials		
Collected Material	In-State Markets	Out-of-State Markets
Total Plastics	100%	
Newspaper	100%	
Corrugated Containers	100%	
Total Other Paper	100%	
Total Glass	100%	
Grass and Leaves	100%	
Total Wood Waste	100%	
Construction & Demolition	no data	
Food & Food Processing	no data	
Tires	no data	
Batteries		100%
Appliances	100%	
Total Metals	100%	

Educational and Informational Programs

It is often necessary to provide educational and informational programs regarding the various components of a solid waste management system before and during its implementation. These programs are offered to avoid miscommunication which results in improper handling of solid waste and to provide assistance to the various entities who participate in such programs as waste reduction and waste recovery. Following is a diagram of the programs offered or proposed to be offered in Genesee County.



Educational and Informational Programs			
Program Topic	Delivery Medium ¹	Targeted Audience ²	Program Provider ³
Recycling	w, r, n, o, f, e, ot (website)	p, s	DPA
Composting	n, f, ot (local municipality website)	p	OO
Household Hazardous Waste	r, n, o, f, ot (website)	p, s	DPA

¹ Identified by w = workshop; r = radio; t = television; n = newspaper; o = organizational newsletters; f = flyers; e = exhibits and locations listed; and ot = other which is explained

² identified by p = general public; b = business; I = industry; s = students with grade levels listed. In addition if the program is limited to a geographic area, then that county, city, village, etc. is listed.

³ Identified by EX = MSU Extension; EG = Environmental Group (Identify Name); OO = Private Owner/Operator (Identify Name); HD = Health Department (Identify Name); DPA = Designated Planning Agency; CU = College/University (Identify Name); LS = Local School (Identify Name); ISD = Intermediate School District (Identify Name); O = Other which is explained.

Implementation Timetable for the Selected System

This timetable is a guideline to implement components of the Selected System. The Timeline gives a range of time in which the component will be implemented such as “1995-1999” or “On-going”. Timelines may be adjusted later, if necessary. The following timetable is an implementation guideline for the Solid Waste Implementation Committee (SWIC) and GCMPC staff as the Designated Planning Agency (DPA). This was created to help prioritize implementation efforts to ensure the most efficient process of delivering a quality and sustainable solid waste system to the citizens of Genesee County. The timetable is meant to be a continuous guideline for the goals and objectives of the plan and may be altered at a later date if necessary to accommodate any changes in the planning process. Coordination and cooperation among local units, the private sector and the County will be a key element for implementation of a successful plan.

Table III-7

Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Plan Implementation		
Develop metrics for measuring progress of plan	DPA	6 months after approval
Prioritize planned programs	SWIC	6 months after approval
Initiate planned programs in order of priority	DPA, Communities	8 months after approval
Milestone reporting	DPA	Biannual and ongoing
Update implementation strategies according to tracked progress and make alterations where appropriate	DPA	Biannual and ongoing

Genesee County Selected Solid Waste System Implementation Timetable

Management Component	Responsible Agency	Timeline
Monitor, Data Collection and Reporting		
Monitor solid waste imports and exports	DPA	Ongoing
Improve solid waste database, methodology and reporting for inclusion of commercial and multi-family housing	DPA, Communities, Commercial Sector	Within 3 years of approval
Evaluate previous program efforts and provide recommendations for improvements	DPA	Within 1 year of approval
Evaluate the Genesee County Solid Waste Ordinance and best practices for improved enforcement strategies	DPA	Within 2 years of approval



Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Education and Awareness		
Evaluate best practices for education programs and pursue grant funding	DPA	Within 1 year of approval
Expand the education program to include a recycling curriculum for teachers	DPA, Schools	Within 2 years of approval
Update community websites and newsletters with current recycling information	DPA, Communities	Within 6 months of approval
County-wide annual waste and recycling newsletter	DPA	Within 1 year of approval
Present to communities with current information about recycling opportunities and programs	DPA, Communities	Ongoing
Educate communities and businesses of cost benefits of reducing waste generation and recommendations of doing so (PAYT, waste assessments, etc.)	DPA, Communities, Commercial Sector	Ongoing

Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Waste Reduction Techniques		
Establish annual goals for evaluation of waste generation	SWIC	Annual
Implementation of residential curbside recycling program in the City of Flint	DPA, City of Flint	Within 3 years of approval
Waste assessments in commercial sector	DPA, Commercial Sector	Ongoing
Research possibility of Material Recycling Facility (MRF) in Genesee County	DPA, SWIC	Within 2 years of approval
Implementation of MRF in Genesee County	DPA, SWIC, County, Private Sector, Communities	Pending Research



Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Assests and Resources		
Formulate a plan for potential revenue and expenditures based on programs and facility operations	DPA, SWIC	Within 3 years of approval
Local communities partner to reduce costs and increase recycling opportunities	Communities, Private	Ongoing

Siting Review Procedures

As required in Part 115 Section 11533 of NREPA, the Plan includes a Selected Solid Waste Management Systems that assures that the non-hazardous solid waste generated in the County over the next 10 years will be collected, processed, and disposed of at disposal areas that comply with state law.

Authorized Disposal Area Types

The following solid waste disposal area types may not be sited by this Plan. Any proposal to construct a facility herein shall be deemed inconsistent with this Plan.

Any new Type B transfer facilities that may become operational after this plan amendment that are owned and/or sponsored by the County or any municipality within the County will be considered consistent with this plan.

All sited for use acreages listed on the Facility Descriptions (pages 53-59) for facilities located in Genesee County are authorized by this Plan Amendment. Genesee County authorizes sited for use area so long as the facilities are following all rules and regulations in Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act. The sited for use acreages are determined by Genesee County and the County may, at its discretion, change the acres sited for use.

Siting Criteria and Procedures

The following process describes the criteria and procedures to be used to site solid waste disposal facilities and determine consistency with this Plan.

Any new facilities, such as the Type B transfer facilities identified above, are subject to the zoning regulations of the local unit of government in which the facility intends to locate.

This Plan demonstrates a minimum ten year capacity, therefore siting criteria and procedures will not be established.

Solid Waste Management Components

The following identifies the management responsibilities and institutional arrangements necessary for the implementation of the Selected Waste Management System. Also included is a description of the technical, administrative, financial and legal capabilities of each identified existing structure of persons, municipalities, counties and state and federal agencies responsible for solid waste management including planning, implementation, and enforcement.

The Solid Waste Management Planning Committee will be responsible for the function of the implementation plan and seeking the necessary funding to implement the plan. Primary parties involved include the GCMPC, the Genesee County Board of Commissioners and the Michigan Department of Environmental Quality. Other participants in the process include environmental groups, landfill operators, recycling groups, local universities and extension offices, County Health Department, local units of government and the Genesee County Act 451 Planning Committee.

The Genesee County Board of Commissioners appointed GCMPC as the DPA to develop and implement the County's Solid Waste Management Plan. GCMPC also administers and manages the Genesee County Solid Waste Management System, as well as drafts and implements the Solid Waste Management Plan for the County.

The Solid Waste Implementation Committee

This committee will be formed in an effort to coordinate the implementation of the Genesee County Solid Waste Management Plan. The committee functions as a primary committee for discussing and arranging for the implementation of the plan and functions throughout a five year planning update. Persons who serve on the committee will be from the private and public sector as well as citizens with environmental interests that reside within Genesee County.

Genesee County

The GCMPC is the DPA and is the primary agent for the administration and implementation of the plan. The following describes GCMPC's technical, financial, legal and administrative capabilities to manage and implement the plan.

Technical Capabilities

GCMPC employs persons that manage and implement the Solid Waste and Recycling program in Genesee County. This includes researching, analyzing and monitoring data.

Administrative Capabilities

Although the County is not involved with the actual collection and disposal of solid waste, staff from GCMPC closely monitors and tracks reports from landfills and haulers to ensure an efficient system. The administrative capabilities of GCMPC to perform all aspects of solid waste management, including planning and implementation are established. While enforcement is an additional responsibility and is utilized by GCMPC, there is a lack of clear direction and monies to conduct proper enforcement. Enforcement has been listed as a deficiency in the current solid waste system, but has also been noted as an objective to improving monitoring solid waste in the county.

Financial Capabilities

The Genesee County Solid Waste Program is funded through the Genesee County Solid Waste Ordinance. The Genesee County Solid Waste Ordinance imposes a fee on all waste generated in Genesee County as well as any waste being brought from other locations for disposal in Genesee County. Funding to the Solid Waste Program also comes from revenues collected from the licensing of all solid waste hauling companies in Genesee County. The program consists of the following areas of planning:

- Recycling
- Education
- Management
- Outreach





Legal Capabilities

The approved Act 451 Solid Waste Management Plan provides its DPA, GCMPC, the authority to implement and enforce any and all portions of the Act 451 Plan.

Genesee County Municipalities

The municipalities in Genesee County all take part in performing a role in implementing the Solid Waste Management Plan. Additionally, sixty-seven percent (67%) of municipalities must approve the Genesee County Solid Waste Management Plan before the plan can be submitted to the Michigan Department of Environmental Quality.

Michigan Department of Environmental Quality

The DEQ is a major player in the Genesee County Solid Waste Management Plan. The DEQ conducts permitting, licensing and monitors construction and operation of the private sector facilities in the County. The DEQ also oversees the Genesee County Solid Waste and Recycling Program, however, implementation of these programs is done within and by the County.

Identification of Responsible Parties

Document which entities within the County will have management responsibilities over the following areas of the Plan:

Resource Conservation:

Source or Waste Reduction – Private Sector
Product Reuse – Private Sector
Reduced Material Volume – Private Sector
Increased Product Lifetime – Private Sector
Decreased Consumption – Private Sector

Resource Recovery Programs:

Composting – Private Sector
Recycling – Private Sector, Genesee County
Energy Production – Private Sector

Volume Reduction Techniques:

Private Sector

Collection Processes:

Private Sector

Transportation:

Private Sector
Genesee County Road Commission
Michigan Department of Transportation

Disposal Areas:

Transfer Stations – Private Sector
Sanitary Landfills – Private Sector
Processing Plants (with possible implementation of a MRF) – Private Sector, Genesee County

Ultimate Disposal Area Uses:

Genesee County
Private Sector
DEQ
Local Government

Local Responsibility for Plan Update Monitoring &

Enforcement:

Genesee County
DEQ

Educational and Informational Programs:

GCMPC
Local Units of Government
Private Sector

Local Ordinances and Regulations Affecting Solid Waste Disposal

This Plan amendment's relationship to local ordinances and regulations within the County is described in the option(s) marked below:



1. Section 11538.(8) and rule 710 (3) of Part 115 prohibits enforcement of all County and local ordinances and regulations pertaining to solid waste disposal areas unless explicitly included in an approved Solid Waste Management Plan. Local Regulations and ordinances intended to be part of this Plan must be specified below and in the manner in which they will be applied described.

The Plan's enforceable Program and Process, including the Plan's authorized Ordinance provisions will be carried out through the Ordained Genesee County Solid Waste Ordinance – Ordinance #0-2 in current and future amended form, its administrative rules and regulations, and the supporting hauler licensing, facility designation agreements, and service contracts and system procurement provisions. These provisions and mechanisms are considered to be consistent with the Plan's Enforceable program, including any further amendments to the ordinances and related rules and regulations, as required to implement the Plan's Enforceable Program which may be adopted and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan, except that such amendments shall not exceed the authority provided for in Part 115 of P.A. 451 of 1994 with regards to the location of disposal areas.



2. This Plan recognizes and incorporates as enforceable the following specific provisions based on existing zoning ordinances:
 - A. Geographic area/Unit of government:
Type of disposal area affected:
Ordinance or other legal basis:

Requirement/restriction:

B. Geographic area/Unit of government:

Type of disposal area affected:

Ordinance or other legal basis:

Requirement/restriction:

C. Geographic area/Unit of government:

Type of disposal area affected:

Ordinance or other legal basis:

Requirement/restriction:

3. This Plan authorizes adoption and implementation of local regulations governing the following subjects by the indicated units of government without further authorization from or amendment to the Plan.

Capacity Certifications

Every County with less than ten years capacity identified in their Plan is required to annually prepare and submit to the DEQ an analysis and certification of solid waste disposal capacity validly available to the County. This certification is required to be prepared and approved by the County Board of Commissioners.



This County has more than ten years capacity identified in this Plan and an annual certification process is not included in this Plan.



Ten years of disposal capacity has not been identified in this Plan. The County will annually submit capacity certifications to the DEQ by June 30 of each year on the form provided by DEQ. The County's process for determination of annual capacity and submission of the County's capacity certification is as follows



Appendix A – Additional Information Regarding the Selected System

Evaluation of Recycling

Detailed Features of Recycling and Composting Programs

Coordination Efforts

Costs and Funding

Evaluation Summary of Selected System

Advantages and Disadvantages of Selected System



Evaluation of Recycling

The following section provides additional information regarding implementation and evaluations of various components of the Selected System:

There is no additional information regarding the implementation and evaluations of various components of the selected system. A complete evaluation of the selected system is expressed in previous sections of the plan.

Detailed Features of Recycling and Composting Programs

Currently, Genesee County does not track the amount of different types of materials being recycled and composted throughout the County. Part of the plan amendment calls upon an improved database system that will track these amounts.

The following briefly describes the processes used or to be used to select the equipment and locations of the recycling and composting programs included in the Selected System. Difficulties encountered during past selection processes are also summarized along with how those problems were addressed:

Equipment Selection:

Existing Programs:

The local municipalities in Genesee County use private waste haulers (with the exception of the City of Flint who does not currently have curbside recycling) to private recycling service to its residents. The private waste haulers take their recyclables to a privately owned recycling facility or transfer station.

Proposed Programs:

There are no proposed programs for equipment selection. Equipment use will remain the choice of the operators of those facilities.

Site Availability and Selection:

Existing Programs:

Recycling facilities do not need to be licensed by the DEQ; however, they must meet local zoning and building regulations and are subject to local government approval.

Proposed Programs:

N/A



Composting Operating Parameters

The following identifies some of the operating parameters which are to be used or are planned to be used to monitor the composting programs.

N/A

Coordination Efforts

Solid Waste Management Plans need to be developed and implemented with due regard for both local conditions and the state and federal regulatory framework for protecting public health and the quality of the air, water, and land. The following states the ways in which coordination will be achieved to minimize potential conflicts with other programs and, if possible, to enhance those programs.

It may be necessary to enter into various types of agreements between public and private sectors to be able to implement the various components of this solid waste management system. The known existing arrangements are described below which are considered necessary to successfully implement this system within the County. In addition, proposed arrangements are recommended which address any discrepancies that the existing arrangements may have created or overlooked. Since arrangements may exist between two or more private parties that are not public knowledge, this section may not be comprehensive of all the arrangements within the County. Additionally, it may be necessary to cancel or enter into new or revised arrangements as conditions change during the planning period. The entities responsible for developing, approving, and enforcing these arrangements are also noted.

Ultimate responsibility for implementing the County's solid waste plan rests with the Genesee County Board of Commissioners. The Board of Commissioners has designated the County Planning Commission with monitoring the plan and ensuring that the intent of the plan is followed.

Costs and Funding

The following estimates the necessary management, capital and operational and maintenance requirements on an annual basis for each applicable component of the solid waste management system. In addition, potential funding sources have been identified to support those components.



Costs and Funding		
System Component ¹	Estimated Costs	Potential Funding Sources
<u>Resource Conservation Efforts</u>		
Curbside Recycling, Composting	Unknown	DPA, Private, Municipalities
<u>Resource Recovery Programs</u>		
Household Hazardous Waste Collection ²	Unknown	DPA, Private, Municipalities
Volume Reduction Techniques	Unknown	DPA, Private
Collection Processes	N/A	Private Sector
Transportation	N/A	Private Sector
Disposal Areas	N/A	Private Sector
Future Disposal Area Uses	None	N/A
Management Arrangements ³	Unknown	DPA, Private
Educational and Informational Programs	Unknown	DPA, Solid Waste Ordinance Fee - Private Sector
¹ These components and their subcomponents may vary with each system		
² Municipalities contribute on a voluntary basis		
³ Funding specified for this component only includes what Genesee County is responsible for. This does not include private sector funds.		

Evaluation Summary of Selected System

The solid waste management system has been evaluated for anticipated positive and negative impacts on the public health, economics, environmental conditions, siting considerations, existing disposal areas, and energy consumption and production which would occur as a result of implementing this Selected System. In addition, the Selected System was evaluated to determine if it would be technically and economically feasible, whether the public would accept this Selected System, and the effectiveness of the educational and informational programs. Impacts to the resource recovery programs created by the solid waste collection system, local support groups, institutional arrangements, and the population in the County in addition to market availability for the collected materials and the transportation network were also considered. Impediments to implementing the solid waste management system are identified and proposed activities which will help overcome those problems are also addressed to assure successful programs. The Selected System was also evaluated as to how it relates to the Michigan Solid Waste Policy's goals. The following summarizes the findings of this evaluation and the basis for selecting this system:

The Genesee County Solid Waste System is based on a plan that incorporates recycling, landfilling and education in resource recovery. Over the next 5 year planning period, the County will research and determine the best methods for implementation of the priorities set forth through this plan. Because Genesee County has an established solid waste management system, this plan amendment is focused primarily on the following items as means to enhance and improve the current system:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expand the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a MRF .
- Utilizing assets and resources in the County by developing partnerships amount local communities to reduce costs and increase recycling opportunities.

Description of Alternatives		
Type of System	Technology	Percentage of Waste Stream
Low Volume		
	Waste Reduction	1-2
	Recycling	4-6
	Composting	2-3
	Landfill	89-93
Medium Volume		
	Waste Reduction	4-5
	Recycling	12-16
	Composting	6-7
	Landfill	75-79
High Volume		
	Waste Reduction	6-9
	Recycling	18-22
	Composting	9-12
	Landfill	57-67

Three alternatives were reviewed during this plan amendment. The difference between alternatives was the amount of resource recovery volumes that could potentially be implemented with this plan (low, medium, and high). The low volume alternative system is the closest to our current system's percentages. Since our current methodology does not account for data collection of waste reduction and composting, it is presumed from the recycling and landfill numbers that the low volume numbers match closely. While the ultimate goal is to achieve high volume of waste reduction, recycling and composting, realistically, we could expect medium volumes to be achieved over the next ten years with the goals the plan is looking to achieve. This would result in an approximate 15% reduction in waste being generated.



Technical Feasibility

The technical feasibility of waste reduction, recycling, composting and landfilling has been established in the County in previous practices and its current state. Evolving technologies and equipment along with continuing education and effective management are crucial aspects of the effectiveness of these components in the selected system.

Economic Feasibility

When evaluating economic feasibility of the selected system components, there are several aspects to consider. When reviewing resource recovery techniques as part of the commercial sector (waste reduction and recycling), it is evident that employing these methods are beneficial for the private sector as reducing the amount of waste that is disposed would decrease overall costs to the business. Many products in the commercial sector are also lucrative for recycling, and thus, because recycling is a market driven operation, this is a very cost-effective option for the commercial sector.

Residential recycling and composting was also analyzed as part of the selected system. While demand is lower in markets for residential recyclables, there are still many impacts from recycling in this sector that for example, result in the creation of jobs to process recyclables. The plan also calls for possible implementation of a MRF in Genesee County, which would process recyclables from the residents, creating revenue and jobs within the County.



Lastly, landfilling was evaluated for economic feasibility, and while this method has been an inexpensive way to process solid waste in past years, legislation has more recently enforced stricter regulations on construction and operation of landfills. Thus, resource recovery options as discussed previously are increasingly becoming more popular and viable.

Access to Land and Transportation Routes

When referring to the selected system's components and access to land, the availability of land space is specifically important for landfills, which is adequate for the planning period described in this Plan. Transportation networks were also considered when analyzing the selected system; the County has two interstate highways, one U.S. highway and four state highways that encompass the transportation network. These routes are adequate to serve the selected system for Genesee County.

Energy Consumption and Production

Waste Reduction and composting are methods utilized to reduce energy needed to operate a landfill. While landfills do require energy to operate efficiently, they are also producing energy by converting gas into electricity. Each landfill in the county participates in the Landfill Gas Recovery Program, producing over 60,000 Megawatts of gas in 2010 which would be enough to power over 6,000 households in Genesee County. Starting in the last quarter of 2012, Brent Run and Citizen's Disposal landfills are both expecting a significant increase in energy production.

Environmental Impacts

By expanding the resource recovery programs as stated in the Selected System, more natural resources will be preserved by decreasing disposal into landfills. No new facilities are planned for this period of time, thus no major environmental impacts will be created.

Public Acceptability

Our recent public survey conducted for the purpose of this plan amendment demonstrates that there is a wide acceptability for increasing and improving efforts for resource recovery programs.

Advantages and Disadvantages of Selected System

Each solid waste management system has pros and cons relating to its implementation within the County. Following is an outline of the major advantages and disadvantages for this Selected System.

Advantages:

1. The selected system will enhance collaboration among the public and private sector on solid waste issues.
2. Education and informational opportunities and programs will be expanded to enhance the knowledge of commercial and residential sectors about resource recovery.
3. Improved database to track and monitor waste and recovery numbers across sectors.
4. The selected system is economically, environmentally and publicly feasible.
5. Expanded resource recovery programs will prolong landfill life and the environment.
6. Existing technology is capable of handling the waste stream.

Disadvantages:

1. The selected system still utilizes landfills as a primary means of disposal.
2. Recycling markets can be unstable at times.
3. Database methodology will be difficult to narrow down for the commercial sector.
4. Resources for education and recovery programs are limited.



Appendix B – Non-Selected System

System Components

Evaluation Summary of Non-Selected System

Advantages and Disadvantages of the Non-Selected
System

Non-Selected System

Before selecting the solid waste management system contained within this Plan amendment, the County developed and considered other alternative systems. The details of the non-selected systems are available for review in the County's repository. The following section provides a brief description of these non-selected systems and an explanation why they were not selected.

System Components

The following briefly describes the various components of the non-selected system.

Resource Conservation Efforts

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Volume Reduction Techniques

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Resource Recovery Programs

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Collection Processes

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Transportation

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Disposal Areas

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Institutional Arrangements

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Educational and Informational Programs

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Capital, Operational, and Maintenance Costs

Same as the Selected System discussed in the previous section. Technology levels are the only difference between the two systems.

Evaluation Summary of Non-Selected System

The non-selected system was evaluated to determine its potential of impacting human health, economics, environmental, transportation, siting and energy resources of the County. In addition, it was reviewed for technical feasibility, and whether it would have public support. Following is a brief summary of that evaluation along with an explanation why this system was not chosen to be implemented.

Advantages and Disadvantages of the Non-Selected System

Each solid waste management system has pros and cons relating to its implementation within the County. Following is a summary of the major advantages and disadvantages for this non-selected system.



Advantages

N/A

Disadvantages

N/A

Appendix C – Public Participation and Approval

Public Participation and Approval

Public Involvement Process

Planning Process

Planning Committee Appointment Procedure

Planning Committee



Public Participation and Approval

The following summarizes the processes which were used in the development and local approval of the Plan including a summary of public participation in those processes, documentation of each of the required approval steps, and a description of the appointment of the solid waste management planning committee along with the members of that committee.

Public Involvement Process

A description of the process used, including dates of public meetings, copies of public notices, documentation of approval from solid waste planning committee, County Board of Commissioners, and municipalities.

The Genesee County Public Participation Plan (PPP) outlines processes and methods through which GCMPC ensures that citizen input will figure prominently throughout the planning process.

The PPP email database contains over 500 email addresses. Notification of the public comment period and the public hearing was sent to this email list. This information was also sent to each local unit of government in Genesee County. A copy of the draft plan was also provided to the Shiawassee County Community Development Department as the Venice Park Landfill is included in our plan and is located close to the Genesee County border.

CERTIFIED COPY OF RECORD

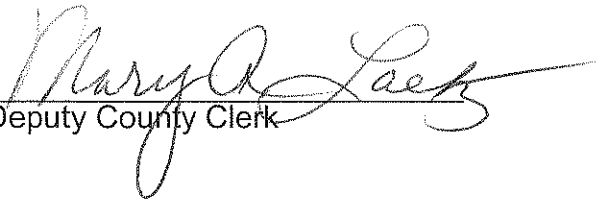
STATE OF MICHIGAN)
County of Genesee)SS.
)

I, **JOHN J. GLEASON**, County Clerk of the County of Genesee, Michigan, and Clerk of the Genesee County Board of Commissioners, and Clerk of the Circuit Court for said County, do hereby certify that I have compared the foregoing copy of the November 8, 2012, Board of Commissioners meeting with original record thereof now remaining in my office, and that the attached is a true and correct copy therefrom, and of the whole of such original record.

In Testimony Whereof, I have hereunto set my hand, and affixed the seal of said Court and County, this 9th day of April A.D. 2013.

GENESEE COUNTY BOARD
OF COUNTY COMMISSIONERS

JOHN J. GLEASON, Clerk

BY: 
Deputy County Clerk

**RECEIVED
GENESEE COUNTY**

APR 12 2013

**METROPOLITAN
PLANNING COMMISSION**

The regular meeting of the Genesee County Board of Commissioners was held in the Willard P. Harris Auditorium, 3rd floor of the Genesee County Administration Building, 1101 Beach Street, in the City of Flint, County of Genesee, State of Michigan, on Thursday, November 08, 2012, commencing at 9:07 a.m.

CALL TO ORDER:

The meeting was called to order by Chairperson Jamie W. Curtis.

INVOCATION:

The Invocation was given by Miles T. Gadola, Commissioner of the 5th District.

PLEDGE OF ALLEGIANCE:

The Pledge of Allegiance was led by Ted Henry, Commissioner of the 8th District.

ROLL CALL:

The following members were present:

District #1, Omar A. Sims; #2, Brenda Clack; #3, Jamie W. Curtis; #4, John Northrup; #5, Miles T. Gadola; #6, Fred Shaltz; #7, Archie H. Bailey; #8, Ted Henry; #9, Patrick F. Gleason

Absent: None

APPROVAL OF MINUTES: None

PUBLIC ADDRESS BOARD:

Chairperson Curtis introduced Commissioners - elect Mark Young and Pegge Adams, he congratulated all winners of the election and thanked Commissioner Miles T. Gadola for his outstanding service representing the 5th District. Commissioner Ted Henry thanked the voters for passing the Veterans Millage on Tuesday. Chairperson Curtis recognized veterans in honor of Veterans Day.

Sheriff Pickell presented a Certificate of Excellence to Pegge Nolde, Director, Equalization, for her assistance in the May 3-4, 2012 flooding.

Deborah Caryl, 1110 S. Cummings Rd., Davison Twp, addressed the Board concerning the defeat of the MSU Extension Millage.

Ashley, Flint, 4-H Club Member, addressed the Board concerning funding for the 4-H Club.

4-H Club Members gave pledge and requested help with 4-H funding from the Board.

Ms. Soderlund, 1131 Cumming Rd, Davison Twp, 4-H Club Member, addressed the Board concerning funding for the 4-H Club.

Mildred Daron, 6404 Johnson Rd, Flushing Twp, addressed the Board concerning funding for the 4-H Club and the Master Gardening Program.

Zach Childs, 9051 Potter Rd, Richfield Twp, addressed the Board concerning funding for the 4-H Club.

Dee Godfrey, 5180 N. State Rd, Richfield Twp, addressed the Board concerning funding for the 4-H Club.

Commissioner Brenda Clack spoke to the 4-H Club.

Ann Mills, 5455 Grant Ave, Grand Blanc, addressed the Board concerning funding for the 4-H Club.

Ernestine Tune, 5176 Cortland Dr, Grand Blanc Twp, congratulated all candidates and addressed the Board concerning funding for the 4-H Club and Master Gardening Program.

Ellen Mills, 5455 Grand Ave, Grand Blanc, address the Board concerning funding for the 4-H Club.

Dan Russell, Chief Executive Officer, Community Mental Health Services, addressed the Board regarding an update on the CMH authority status boundaries. Genesee County has been designated as the contacting authority for the area.

COMMUNICATIONS:

Corporation Counsel Celeste Bell advised the Board of needed changes to the Indigent Defense Fund. Suggested motion to add item to agenda for Corporation Counsel to send a letter to the State to make changes to the Indigent Defense Fund.

Commissioner Ted Henry moved to add item to agenda to approve Corporation Counsel to send a letter to the State regarding changes to the Indigent Defense Fund.
Supported by Commissioner Brenda Clack. Carried

Commissioner Miles T. Gadola moved to authorize Corporation Counsel to send a letter to the State regarding changes to the Indigent Defense Fund.
Supported by Commissioner Ted Henry. Carried

PUBLIC HEARING:

Chairperson Curtis called a public hearing to order at 9:37 a.m. regarding amendment to Solid Waste Plan.

Joe Krapohl, President, GCPRC, addressed the Board regarding Richfield Landfill on Mt. Morris Road and distributed copies of the Genesee County and Parks Recreation Commission Ordinance O10-12. Brian Barkey, Counsel for GCPRC was present.

Chairperson Curtis stated that since the County put a lien on the assets of Richfield Industries once these assets are sold, in bankruptcy, the County can use the funds to take care of the leaking cells at the Richfield Landfill.

Commissioner Clack inquired if the Richfield Landfill is still doing business and Attorney Barkey stated they are.

Julie Brandon, secretary of the Holloway Lake Association, addressed the Board regarding support of the Parks Resolution passed on October 25, 2012.

Derek Bradshaw, Planning Commission, addressed the Board regarding clarifying the public hearing and advised that the amendment to the plan will take up to 18 months.

Joe Medore, Richfield Township Supervisor, addressed the Board regarding the leaking cells stating only the old cells are leaking, the current active cells are not.

Amy McMillan, Director, GC Parks, addressed the Board regarding the leaking cells stating the owner has not complied with the current agreement to divert the leaking cells.

There being no member of the public wishing to address the public hearing, Chairperson Curtis declared the public hearing closed at 10:04 a.m.

REPORTS:

Commissioner Ted Henry moved that the following Resolution, item number B1, as printed on the agenda, be adopted.

Supported by Commissioner Brenda Clack.

Carried

RESOLUTION (12-474)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the Equalization Director is authorized, upon certification of the election results by the Genesee County Board of Canvassers, to amend and re-file on behalf of the County the State form L-4029 for 2012 to reflect the addition of the Veterans Millage in the

amount of .10 mill, approved by the voters of Genesee County at the November 6, 2012, election, and the Chairperson of this Board and the County Clerk are authorized to sign said form on behalf of the County.

BE IT FURTHER RESOLVED, that the Controller and the Director of Veterans Services are directed to prepare a proposed budget based on the projected tax revenues for presentation to this Board.

BOARD OF COMMISSIONERS

(On agenda with consents of Board and Committee Chairpersons)

Commissioner Ted Henry moved that the following Resolution, item number F1, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-475)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, that this Board of Commissioners of Genesee County, Michigan, ratifies the expedited action taken October 24, 2012 by the Finance Committee of this Board authorizing the Seventh Circuit Court, Family Division to temporarily fill a social service worker position that has been vacant since August 22, 2012 due to an extended sick leave (a copy of the memorandum request dated October 22, 2012 being on file with the official records of the October 24, 2012 meeting of the Finance Committee of this Board).

BE IT FURTHER RESOLVED, that the Director of the Human Resources Department is directed to commence the hiring process for filling the temporary position, in accordance with the County Personnel Policy and any applicable collective bargaining agreement

FINANCE COMMITTEE

F102412VIA

Commissioner Ted Henry moved that the following Resolution, item number F2, as printed on the agenda, be adopted.

Supported by Commissioner Brenda Clack.

Carried

RESOLUTION (12-476)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Health Officer to change position number 60917 from "Secretary" to "Health Technician," said change being requested to allow more flexibility with regarding the Women and Infant Children Program services, is approved (a copy of the memorandum request dated October 24, 2012 and back up documentation being on file with the official records of the October 24, 2012 meeting of the Finance Committee of this Board).

FINANCE COMMITTEE

F101012VIIB

Commissioner Ted Henry moved that the following Resolution, item number F3, as printed on the agenda, be adopted.

Supported by Commissioner Miles T. Gadola.

Carried

RESOLUTION (12-477)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Information Technology Department Director to authorize payment in the amount of \$113,947.70 as the annual maintenance fee for the OnBase document management system from Imagesoft is approved (a copy of the memorandum request dated October 22, 2012 being on file with the official records of the October 24, 2012 meeting of the Finance Committee of this Board).

FINANCE COMMITTEE

F101012VIIC

Commissioner Ted Henry moved that the following Resolution, item number F4, as printed on the agenda, be adopted.

Supported by Commissioner Omar A. Sims.

Carried

RESOLUTION (12-478)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Controller to correct the annualized salary set forth in Resolution 12-434, wherein this Board appointed Maxine Daniels to the position of Information Technology Department Director, is approved (a copy of the memorandum request dated October 23, 2012 being on file with the official records of the October 24, 2012 meeting of the Finance Committee of this Board).

BE IT FURTHER RESOLVED, that Resolution 12-434 is amended to reflect the following information:

	Per Resolution 12-434	Corrected Amount
Salary Effective 10/10/2012	\$92,160.40	\$91,238.82
Salary Effective 4/10/2013	\$93,831.71	\$92,893.42
Salary Effective 10/10/2013	\$95,503.00	\$94,548.00

FINANCE COMMITTEE

F101012VIID

Commissioner Ted Henry moved that the following Resolution, item number F5, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-479)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Controller to authorize use of drug forfeiture funds in the amount of \$11,244 to cover the costs of overtime incurred by the Sheriff Department for the provision of law

enforcement services during the August 2012 "Back to the Bricks" event in the City of Flint is approved.

FINANCE COMMITTEE

F101012VIIE

Commissioner Omar A. Sims moved that the following Resolution, item number G1, as printed on the agenda, be adopted.

Supported by Commissioner Brenda Clack.

Carried

RESOLUTION (12-480)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, that this Board of Commissioners of Genesee County, Michigan, allows and authorizes the payments of bills, claims, and obligations for the County of Genesee in the amount of \$23,530,469.14 for the period ending October 12, 2012, including \$243,417.80 from the General Fund.

GOVERNMENTAL OPERATIONS COMMITTEE

G103112VIIA

Commissioner Omar A. Sims moved that the following Resolution, item number G2, as printed on the agenda, be adopted.

Supported by Commissioner Brenda Clack.

Carried

RESOLUTION (12-481)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Director of the

Genesee Valley Regional Center to approve the contract with Home Dental Management Group, doing business as Healthy Kids Dental, for mobile dental services is approved (a copy of the memorandum request dated October 17, 2012, and a copy of the contract being on file with the official records of the October 31, 2012, meeting of the Governmental Operations Committee of this Board), and the Chairperson of this Board is hereby authorized to execute the contract on behalf of Genesee County.

GOVERNMENTAL OPERATIONS COMMITTEE

G103112VIID

Commissioner Omar A. Sims moved that the following Resolution, item number G3, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-482)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Office of the Sheriff to approve the attached contract with the Genesee County Community Mental Health agency ("CMH") for the provision of a Resource Officer is approved, and the Chairperson of this Board and the Sheriff are authorized to execute the contract.

BE IT FURTHER RESOLVED, that the Human Resources Department is authorized to complete the hiring process for the filling of the CMH Resource Officer position, the commencement of which was previously authorized in Resolution no. 12-460, so that the position may be filled as soon as practicable in accordance with County policy and any applicable collective bargaining agreement.

GOVERNMENT OPERATIONS COMMITTEE
(On agenda with consent of Board and Committee chairs)

DRAFT**PROFESSIONAL SERVICES CONTRACT**

This Contract for Professional Services (the "Contract") is by and between the County of Genesee, a Michigan Municipal Corporation, whose principal place of business is located at 1101 Beach Street, Flint, Michigan 48502 (the "County") and the Genesee County Sheriff (the "Sheriff"), and Genesee County Community Mental Health, whose principal place of business is located at 420 W. Fifth Avenue, Flint, MI 48503 ("CMH") (the County, Sheriff and CMH together being the "Parties").

1. Term

1.1 The term of this Contract commences on November 9, 2012, and shall be effective through September 30, 2013 (the "Term"). This contract has been approved by the Genesee County Board of Commissioners Resolution #_____.

1.2 It is understood that the CMH shall become the Genesee County Community Mental Health Authority (the "Authority") effective December 31, 2012. It is the intention of the Parties that this Contract will be ratified by the Authority as soon as practicable after its creation, but shall occur no later than February 20, 2013. Failure by the Authority to ratify this Contract by this date shall automatically terminate this Contract effective February 22, 2013.

2. Purpose

This contract is entered into for the purpose of the Sheriff providing a Genesee County Sheriff's deputy who is a certified police officer to act as the Resource Officer to Genesee County Community Mental Health.

3. Scope of Work

The County agrees to assign a certified police officer to the Genesee County Community Mental Health to provide police services to the agency, as well as assist in the preparation of, and training for, emergency preparedness plans (the "Services").

4. Compensation

4.1 CMH agrees to pay the County the actual costs for performing all Services covered by this Contract. The basic cost of such Services is estimated to be, and intended by the parties not to exceed, \$99,060 for the Term described

above. (See Exhibit A which is incorporated herein by reference). The basic cost includes all salaries and wages, sick leave, vacations, employee benefits, supervision, Public Employees' Retirement Contribution Insurance premiums, social security, unemployment insurance, worker's compensation, equipment costs, vehicle costs, and all other indirect costs incurred by the County and the Sheriff in providing the Services. The County reserves the right to demand, and CMH agrees to pay, all actual costs incurred in providing the Services, including vehicle fuel costs in excess of the estimated motor pool allowance based on use and the costs of fuel.

It is agreed that CMH may choose to supply its own vehicle and/or fuel to the Resource Officer. If this choice is made, a separate agreement will be reached regarding insurance coverage. In addition, the motor pool charges will be adjusted to reflect the actual use, if any, of a County vehicle.

- 4.2 The County will provide to CMH bi-monthly invoices, along with any supporting documentation such as time sheets and receipts for incurred expenses. Actual computation of applicable costs hereunder shall be made by the Genesee County Controller. Payments for such costs shall be made promptly by CMH to the County within thirty (30) days of receipt of the County's invoice and supporting documentation.
- 4.3 In addition to the basic costs designated in subsection 4.1 above, CMH agrees to pay costs for any overtime incurred in the course of providing the services under this Contract.
- 4.4 It is understood that the staffing provided for in this Contract supports a full time position for CMH but does not include weekends, holidays, or backfilling of the position when an assigned individual is absent due to illness or vacation. CMH agrees to pay all costs, dollar for dollar, associated with such additional coverage, if CMH chooses to request it.
- 4.5 If, during the period covered by this Contract, an increase in salary, fringe benefits or other costs is implemented as a result of negotiation between the County and the collective bargaining organization (labor union) of the employees or as a result of rate increases, this Contract shall be amended to include the increased cost of providing the services covered by this Contract, and CMH agrees to reimburse the County to the extent of the increased costs.

4.6 The County and the Sheriff agree that overtime incurred during the period covered by this Contract shall be kept to a minimum. The County and Sheriff further agree to report overtime costs, if any, to CMH monthly.

5. Taxes.

The County is a Michigan Municipal Corporation. CMH acknowledges that the County is exempt from Federal Excise Tax and Michigan Sales Tax.

6. Contract Administrator

The contract administrator for this Contract is Sheriff Robert Pickell (the "Contract Administrator"). CMH acknowledges that the Contract Administrator is the primary County contact for notices and instructions related to this Contract. The CMH agrees to provide a copy of all notices related to this Contract to the Contract Administrator.

7. Termination

7.1 Any party may terminate this Contract for any reason upon written notice to the other parties of not less than forty-five (45) days prior to the date of such termination.

7.2 The County may terminate this Contract immediately in the event its costs exceed, or are anticipated to exceed, \$99,060.00 for the Contract Term and CMH declines to pay the County for such additional costs.

7.3 In the event of termination, the County is not liable to CMH for any costs incurred to obtain substitute performance.

8. Nondiscrimination

The Parties covenant that they will not discriminate against an employee or applicant of employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex, height, weight, marital status or a disability that is unrelated to the individual's ability to perform the duties of a particular job or position, and that they will require the same non-discrimination assurances from any subcontractor who may be used to carry out duties described in this contract. The Parties further covenant that they will not discriminate against businesses that are owned by women, minorities or persons with disabilities in providing services covered by this Contract. Breach of this covenant shall be regarded as a material breach of this Contract.

9. Freedom of Information Act

This Contract and all attachments, as well as all other information submitted by CMH to the County, are subject to disclosure under the provisions of MCL §15.231, *et seq.*, known as the "Freedom of Information Act".

10. Liability

Each party to this Agreement will remain responsible for any claims arising out of that party's performance of this Agreement, as provided for in this Agreement or by law. This Agreement is not intended to either increase or decrease either party's liability to or immunity from tort claims.

This Agreement is not intended to, nor will it be interpreted as giving, either party a right of indemnification either by contract or at law for claims arising out of the performance of this Agreement.

11. General Provisions**11.1 Entire Contract**

This Contract, consisting of the following documents and Exhibits, embodies the entire Contract between the Parties.

11.1.1. The Contract – This Professional Services Contract**11.1.2. Exhibit A –Anticipated Budget**

There are no promises, terms, conditions, or obligations relating to the Services other than those contained herein. In the event of a conflict between this Contract and any Exhibit, the terms of this Contract shall control.

11.2 No Assignment

The County may not assign or subcontract this Contract without the express written consent of CMH.

11.3 Modification

This Contract may be modified only in writing executed with the same formalities as this Contract.

11.4 Binding Effect

The provisions of this Contract shall apply to and bind the heirs, executors, administrators, and assigns all of the parties hereto.

- 11.5 Headings
The paragraph headings in this Contract are used only for ease of reference, and do not limit, modify, construe, and or interpret any provision of this Contract.
- 11.6 Governing Law and Venue
This Contract is entered into under the laws of the State of Michigan. Any litigation between the Parties arising out of this Contract must be initiated within two years of the cause of action accruing and must be brought in a court of competent jurisdiction in Genesee County, Michigan.
- 11.7 Severability and Survival
In the event that any provision of this Contract is deemed by any court of competent jurisdiction to be legally ineffective, such decision shall have no effect on the remaining provisions of this Contract.
- 11.8 Interpretation
Each Party has had opportunity to have this Contract reviewed by legal counsel and has had equal opportunity to contribute to its contents. In the event of any dispute concerning the interpretation of this Contract, there shall be no presumption in favor of any interpretation solely because the form of this Contract was prepared by the County.
- 11.9 Remedies
All remedies specified in this Contract are non-exclusive. The County reserves the right to seek any and all remedies available under this Contract and applicable law in the event that CMH fails to abide by the terms of this Contract

EXHIBIT A

Anticipated Budget

**Genesee County, Michigan
Projected Costs of Proposed CMH SRO
10/1/12-9/30/12**

<u>Account</u>	<u>Account Name</u>	<u>2012/2013 Requested Budget</u>
30015	Salary Permanent	46,213

30055	Salary Overtime	-
30065	Overtime Holiday Pay	-
30070	Salary Premium	-
30080	Longevity	-
	SALARIES Total	46,213
33010	Social Security	3,535
33045	Medical Insurance	14,474
33060	Optical Insurance	198
33080	Dental Insurance	1,032
33085	Life Health Insurance	1,350
33095	Retirement	4,621
33110	Workers Compensation	1,479
33125	Unemployment	185
33126	Post-Retirement Benefits	9,243
	FRINGES Total	36,117
35050	Supplies Computer	-
35160	Laundry Robes Uniforms	550
65070	Equipment	-
75025	Motor Pool Charges	15,000
80025	Governmental Service Fee	1,180
	OTHER NON-PERSNL EXP. Total	16,730
	EXPENSE Total	99,060

Commissioner Brenda Clack moved that the following Resolution, item number H1, as printed on the agenda, be adopted.

Supported by Commissioner Omar A. Sims.

Carried

RESOLUTION (12-483)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Executive Director of the Genesee County Community Resource Department (GCCARD) to authorize entering a Memorandum of Understanding (MOU) with Priority Children for the purpose of providing and installing carbon monoxide alarms in GCCARD weatherized homes, funded by a grant from Flint/Genesee County Green and Healthy Homes Initiative in the amount of \$63,650, is approved (a copy of the memorandum request dated October 24, 2012 and the proposed memorandum of understanding being on file with the official records of the October 24, 2012 meeting of the Human Services Committee of this Board), and the Director of GCCARD is authorized to sign said MOU on behalf of Genesee County.

HUMAN SERVICES COMMITTEE

H102412VIA2

Commissioner Brenda Clack moved that the following Resolution, item number H2, as printed on the agenda, be adopted.

Supported by Commissioner Omar A. Sims.

Carried

RESOLUTION (12-484)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, that this Board of Commissioners of Genesee County, Michigan, hereby ratifies the expedited action taken October 24,

2012, by the Human Services Committee of this Board in authorizing acceptance by the Genesee County Community Resource Department (GCCARD) of three contract modifications to contracts with Michigan Works! Career Alliance, Inc. as identified below:

Contract #	Modification Intent/Specifics	Funding Change
019-JOA-11 EXT# 130-JOA-13	TANF/JET – Orientation and Assessment Services for an additional year	\$ 375,000
019-JOA-11 EXT # 130-JVET-13	TANF/JET – Vocational Education Training activities for an additional year	\$ 62,400
019-JOA-11 EXT # 130-GOA-13	GF/GR//JET – Orientation and Assessment Activities for an additional year	\$ 30,000

(a copy of the memorandum request dated October 10, 2012 and contract modification documents being on file with the official records of the October 24, 2012 meeting of the Human Services Committee of this Board), and the Executive Director of GCCARD is authorized to sign said document on behalf of Genesee County.

HUMAN SERVICES COMMITTEE

H102412VIA3

Commissioner Brenda Clack moved that the following Resolution, item number H3, as printed on the agenda, be adopted.

Supported by Commissioner Omar A. Sims.

Carried

RESOLUTION (12-485)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Genesee County Health Officer to authorize acceptance of \$53,982 in grant funding from the US Centers for Disease Control and Prevention for the REACH/CEED program, to permit completion of the work related to the Genesee County REACH US project, for the period October 1, 2012 through November 29, 2012, is approved, and the Health Officer and Chairperson of this Board are authorized to sign, as necessary, the extension document (a copy of the memorandum request dated October 18, 2012 and supporting documentation being on file with the official records of the October 24, 2012, meeting of the Human Services Committee of this Board).

HUMAN SERVICES COMMITTEE

H102412VIIB1

Commissioner Brenda Clack moved that the following Resolution, item number H4, as printed on the agenda, be adopted.

Supported by Commissioner Omar A. Sims.

Carried

RESOLUTION (12-486)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Genesee County Health Officer to approve the amendment to the professional services contract between Genesee County and InnerCity Production, LLC, P.O. Box 320992, Flint, MI 48532, funded by the REACH US/ CEED grant, to include additional funding and to extend the effective date of said agreement through November 29, 2012, for the production of a REACH US documentary, is approved, and the Chairperson of this Board is authorized to sign said contract amendment on behalf of Genesee County (a copy of the memorandum request dated October 18, 2012 and contract amendment being on file with the official records of the October 24, 2012 meeting of the Human Services Committee of this Board).

HUMAN SERVICES COMMITTEE

H102412VIIB2

Commissioner Brenda Clack moved that the following Resolution, item number H5, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-487)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Genesee County Health Officer to approve the second amendment to the professional services contract between Genesee County and Denise Carty, 1509 Pine Valley Blvd., Ann Arbor, MI 48104, funded by the REACH US/ CEED

grant, to extend the current contract through November 29, 2012, said contract having been previously extended through September 29, 2012, for the continued provision of evaluative services at a cost of \$3,000, is approved, and the Chairperson of this Board is authorized to sign said contract amendment on behalf of Genesee County (a copy of the memorandum request dated October 18, 2012 and contract amendment being on file with the official records of the October 24, 2012 meeting of the Human Services Committee of this Board).

HUMAN SERVICES COMMITTEE

H102412VIIB3

Commissioner Brenda Clack moved that the following Resolution, item number H6, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-488)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Genesee County Health Officer to approve the amendment to and extension of the professional services contract between Genesee County and the Regents of the University of Michigan, Ann Arbor, MI 48109, whereby the University has been contracted for evaluation of the REACH US program, said contract to be extended through November 29, 2012, at an additional cost of \$2,500, is approved, and the Chairperson of this Board is authorized to sign said contract amendment on behalf of Genesee County (a copy of the memorandum request dated October 18, 2012 and contract amendment being on file with the official records of the October 24, 2012 meeting of the Human Services Committee of this Board).

HUMAN SERVICES COMMITTEE

H102412VIIB4

Commissioner Brenda Clack moved that the following Resolution, item number H7, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-489)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Genesee County Health Officer to approve the comprehensive agreement between Genesee County and the Michigan Department of Community Health, contract no. 20130405-00, for the period October 1, 2012 through September 30, 2013, in the amount of \$5,616,659, for the delivery of public health services, is approved, and the Health Officer is authorized to sign said contract on behalf of Genesee County (a copy of the memorandum request dated October 18, 2012 and Comprehensive Agreement being on file with the official records of the October 24, 2012 meeting of the Human Services Committee of this Board).

HUMAN SERVICES COMMITTEE

H102412VIIB5

Commissioner Brenda Clack moved that the following Resolution, item number H8, as printed on the agenda, be adopted.

Supported by Commissioner Ted Henry.

Carried

RESOLUTION (12-490)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Senior Services Administrator to authorize the following travel requests are approved (a

copy of the memoranda requests dated October 9, 2012 and supporting documentation being on file with the official records of the October 24, 2012 meeting of the Human Services Committee of this Board):

1) A Carman-Ainsworth staff person is approved to accompany seniors on trips arranged by the Center for the period October 1, 2012 through September 30, 2012, travel costs not to be paid by the Senior Millage.

2) The Krapohl Senior Center Director, Gayle Reed, and her social work technician, Ruben Quintanilla, are authorized to attend the 2012 Michigan Association of Senior Centers Conference being held at the Crystal Mountain Resort in Thompsonville, MI for the period November 7-9, 2012, expenses in the amount of \$500 to be paid from the Senior Millage.

HUMAN SERVICES COMMITTEE

H102412VIIC1 & C2

Commissioner Ted Henry moved that the following Resolution, item number P1, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-491)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Director of the Information Technology Department to authorize contract negotiations with Avalon Technologies for the purchase of SAN and network infrastructure upgrades, and to enter into a contract with Avalon Technologies at a price not to exceed \$515,000.00, is approved (a copy of the memorandum request dated October 26, 2012, being on file with the official records of the October 31, 2012, meeting of the Public Works Committee of this Board); and that the Chairperson is authorized to

execute the final negotiated contract on behalf of Genesee County upon review by Genesee County Corporation Counsel.

PUBLIC WORKS COMMITTEE

P103112VIA

Commissioner Ted Henry moved that the following Resolution, item number P2, as printed on the agenda, be adopted.

Supported by Commissioner Fred Shaltz.

Carried

RESOLUTION (12-492)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Director of the Information Technology Department to extend the managed hosting contract with Bull HN Information Systems for one year at a cost of \$287,340.00, is approved (a copy of the memorandum request dated October 26, 2012, being on file with the official records of the October 31, 2012, meeting of the Public Works Committee of this Board); and that the Chairperson is authorized to execute the contract on behalf of Genesee County.

PUBLIC WORKS COMMITTEE

P103112VIB

Commissioner Ted Henry moved that the following Resolution, item number P3, as printed on the agenda, be adopted.

Supported by Commissioner John Northrup.

Carried

RESOLUTION (12-493)

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE
GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE
COUNTY, MICHIGAN

LADY AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the bids shown in bold print on the one

page document captioned **Bid Tabulation - #12-026-2013 Vehicles** (attached) are hereby accepted, and the Purchasing Director is directed to present the 2013 Genesee County Vehicle Replacement Plan to the Motor Pool Subcommittee of the Public Works Committee.

PUBLIC WORKS COMMITTEE

P103112VIIC

GENESEE COUNTY BID TABULATION (Local Preference Policy) - #12-026 - 2013 VEHICLES -

Item	Vehicle	Company: City:	Graff Chevrolet Davison	Applegate Chevrolet Flint	Simms Chevrolet Clio	Shaheen Chevrolet Lansing
1.	2013 GM CC10706, Chev Tahoe, 2WD, 4DR		\$ 25,845.00	\$ 26,576.65	\$ 27,292.12	\$25,846.65
2.	2013 GM CK10706, Chev Tahoe 1/2 T, 4WD, 4DR		\$ 30,266.00	\$ 30,641.20	\$ 31,389.00	\$ 29,826.20
3.	2013 GM 1EW19, Chev Caprice Police Patrol Veh, 4 DR, Sdn		\$ 27,181.00	\$ 27,056.05	\$ 27,589.00	\$ 27,611.05
4.	2013 GM 1EW19, Chev Caprice Detective, 4DR, Sedan		\$ 26,565.00	\$ 26,439.80	\$ 26,942.00	\$ 26,994.80
5.	2013 GM 1WS19, Chev Impala Police 4DR Sedan		\$ 20,436.00	\$ 21,131.66	\$ 21,646.00	\$ 20,437.66
6.	2013 GM 1WS19, Chev Impala Police, 4DR, Sedan		\$ 20,049.00	\$ 20,744.91	\$ 21,249.00	\$ 20,050.91
7.	22013 GM 1PL69, Chev Cruze LS, 4DR, Sedan		\$ 16,899.00	\$ 17,313.88	\$ 17,647.00	\$ 17,693.88
8.	2013 GM 1GB69, Chev Malibu LS, 4DR, Sedan		\$ 18,963.00	\$ 19,137.43	\$ 19,586.00	\$ 19,657.93
9.	2013 GM 4GB69, Buick LaCrosse, 4DR, FWD Sedan		\$ No Bid	\$ No Bid	\$ No Bid	\$ No Bid
10.	2013 GM 4GR69, Buick Regal 4DR, Sedan		\$ No Bid	\$ No Bid	\$ No Bid	\$ No Bid
11.	2013 GM CG13405, 135" WB, Chev Express 1/2 T Cargo, RWD, Van		\$ 17,803.00	\$ 19,578.25	\$ 20,149.00	\$ No Bid
12.	2013 GM CG23405, 135" WB, Chev Express 3/4 T Cargo, RWD, Van		\$ 18,975.00	\$20,750.01	\$21,319.00	\$ No Bid
13.	2013 GM CG33405, 135" WB, Chev Express 1 T Cargo, RWD, Van		\$ 21,283.00	\$23,457.51	\$23,986.00	\$ No Bid
14.	2013 GM CG33706, 155" WB, Chev Express Passenger LS, 1 T Van, RWD		\$ 24,430.00	\$ 27,204.75	\$ 27,758.00	\$ No Bid
15.	2013 GM CG33705, 155" WB, Chev Express 1 T Cargo Van, RWD		\$ 22,079.00	\$ 24,254.00	\$ 24,791.00	\$ No Bid
16.	2013 GM CC10903, 133" WB, Chev Silverado Reg Cab, 1/2 T, 2WD, P/U		\$ 16,635.00	\$ 17,309.71	\$ 17,944.00	\$ No Bid
17.	2013 GM CC10903, 133"WB, Chev Silverado Reg Cab, 1/2 T, 2WD, P/U		\$ 16,456.00	\$ 17,030.96	\$ 17,674.00	\$ No Bid
18.	2013 GM CC20903, 133.7" WB, Chev Silverado HD, 3/4 T, Reg Cab, 2WD, P/U		\$ 19,899.00	\$ 19,963.50	\$ 20,591.00	\$ No Bid
19.	2013 GM CK10903, 133.0" WB, Chev Silverado Reg Cab, 1/2 T, 4WD, P/U		\$ 20,200.00	\$ 20,975.46	\$ 21,596.00	\$ No Bid
20.	2013 GM CC10753 143.5" WB, Chev Silverado Ext Cab, 1/2 T, 2WD, P/U		\$ 18,306.00	\$ 19,680.70	\$ 20,324.00	\$ No Bid
21.	2013 GM CK20903, 133.7" WB, Chev Silverado Reg Cab, HD 3/4 T, 4WD, P/U		\$ 23,282.00	\$ 24,092.81	\$ 24,381.00	\$ No Bid
22.	2013 GM CK20903, 133.7" WB, Chev Silverado Reg Cab, HD 3/4 T, 4WD, P/U,		\$ 30,596.00	\$ 31,407.06	\$ 31,712.00	\$ No Bid
23.	2013 GM CK20753, 144.2" WB, Chev Silverado Ext Cab, HD 3/4 T, 4WD, P/U		\$ 24,797.00	\$ 26,007.26	\$ 26,321.00	\$ No Bid
24.	2013 GM CK20953, 158.2" WB, Chev Silverado Ext Cab, HD 3/4 T, 4WD, P/U		\$ 24,874.00	\$ 26,184.72	\$ 26,496.00	\$ No Bid

25.	2013 GM CK20753, 144.2" WB, Chev Silverado Ext Cab, HD 3/4 T, 4WD P/U	\$ 32,411.00	\$ 33,321.51	\$ 33,638.00	\$ No Bid
26.	2013 GM CK20953, 158.2" WB, Chev Silverado Ext Cab, HD 3/4 T, 4WD P/U	\$ 32,188.00	\$ 33,498.95	\$ 33,797.00	\$ No Bid
27.	2013 GM CK20743, 153.7" WB, Chev Silverado Crew Cab, HD 3/4 T, 4WD P/U	\$ 25,476.00	\$ 27,186.70	\$ 27,497.00	\$ No Bid
28.	2013 GM CK20743, 153.7" WB, Chev Silverado Crew Cab, HD 3/4 T, 4WD, P/U	\$ 32,790.00	\$ 34,500.95	\$ 34,820.00	\$ No Bid
29.	2013 GM CK20943, 167.7" WB, Chev Silverado Crew Cab, HD 3/4 T, 4WD, P/U	\$ 25,653.00	\$ 27,364.16	\$ 27,686.00	\$ No Bid
30.	2013 GM CK20943, 167.7" WB, Chev Silverado Crew Cab, HD 3/4 T 4WD, P/U	\$ 32,555.00	\$ 33,930.41	\$ 34,581.00	\$ No Bid
31.	2013 GM CK30903, 133.7" WB, Chev Silverado Reg Cab, HD 3/4 T, Crew Cab 4WD, P/U	\$ 23,952.00	\$ 24,127.00	\$ 24,771.00	\$ No Bid
32.	2013 GM CK30903, 133.7" WB, Chev Silverado Reg Cab, HD 1 T, 4WD, P/U	\$ 31,640.00	\$ 31,815.30	\$ 32,469.00	\$ No Bid
33.	2013 GM CK30943, 167.7" WB, Chev Silverado Crew Cab, HD 1 T, 2WD, P/U	\$ 26,901.00	\$27,676.36	\$ 28,318.00	\$ No Bid
34.	2013 GM CR14526, Chev Traverse LS, FWD, 4DR	\$ 24,575.00	\$ No Bid	\$ 24,521.00* *(2012 LS)	\$ No Bid
35.	2013 GM 1LF26, Chev Equinox LS, FWD, 4DR	\$20,109.00	\$20,984.36	\$ 21,516.00	\$ 19,027.30

This is a draft tabulation. Entries are as recorded during bid opening, may include incorrect price extensions or transcription errors, and are subject to change if conflicting information is discovered during analysis of the bid responses. 12-026bt

LAUDATORY RESOLUTION:

Commissioner Fred Shaltz moved that the following Laudatory Resolution be adopted.
Supported by Commissioner Ted Henry. Carried

RESOLUTION (12-L18)

WHEREAS, it is a pleasure to pay special tribute to Annie M. Dye as she retires after nine years as the President of the Great Lakes Baptist District Association Women's Auxiliary; and

WHEREAS, Sister Dye is the third of nine children born to the late Mr. and Mrs. Bynum and Hattie James, Water Valley, Mississippi. She graduated from Water Valley High School and attended Rust College, Holly Spring, Mississippi; and

WHEREAS, Sister Dye was married to the late Joe Dye, Sr. and to this union two sons were born, the late James Dye and the late Joe Dye, Jr. She is also the grandmother of four and great-grandmother of three; and

WHEREAS, Sister Dye became a member of the Metropolitan Baptist Tabernacle under Reverend Dr. Thomas Ballou and is presently serving under the leadership of Reverend Carlos D. Williams; is active in

the Wolverine State Baptist Convention (serving as Woman's Auxiliary Co-Chairman for the District Presidents' Prayer Hour Program; served the National Baptist Convention, USA, Inc. Woman's Auxiliary on the Registration Committee; and has remained active in her Church, District, State, National and community activities while she worked for 31 years at AC Spark Plug Division of General Motors; and

WHEREAS, one of Sister Dye's favorite bible verses is:

"I will bless the Lord at all times: This praise shall continually be in my mouth." Psalm 34:1

NOW, THEREFORE, BE IT RESOLVED, that this Board of County Commissioners of Genesee County, Michigan, on a motion by Commissioner Brenda Clack, and supported by Commissioner Omar A. Sims does hereby laud, applaud, and congratulate:

ANNIE M. DYE

as she retires as President of the Great Lakes Baptist District Association Women's Auxiliary.

UNFINISHED BUSINESS: None

NEW AND MISCELLANEOUS BUSINESS: None

ADJOURNMENT:

There being no objection from any member of the Board, Chairperson declared the meeting adjourned at 10:23 a.m.



JAMIE W. CURTIS, CHAIRPERSON

MICHAEL J. CARR, CLERK



MARY A. LAETZ, DEPUTY CLERK

STATE OF MICHIGAN)
County of Genesee

ss Karen Jones

KR

Being duly sworn deposes and say he/she is Principal Clerk of



THE FLINT JOURNAL

DAILY EDITION

a newspaper published and circulated in the County of Genesee and otherwise qualified according to Supreme Court Rule; and that the annexed notice, taken from said paper, has been duly published in said paper on the following day(day(s)) _____

September 23 A.D. 20 12

Sworn to and subscribed before me this 2nd day of October 20 12

Janice M. Ringler

JANICE M. RINGLER
Notary Public, State of Michigan
County of Kent
My Commission Expires: 10/03/2014
Acting in the County of Genesee

PUBLIC NOTICES

ATTENTION! PUBLIC COMMENT PERIOD & PUBLIC HEARING:

The Genesee County Solid Waste Management Plan Amendment that is authorized under Act 451, Part 115 of the Michigan Environmental Protection Act, 1994 will be released for public review and comment. The release of the draft plan amendment is the first task in the approval process of the plan.

A 90-day public comment period for the Draft Solid Waste Management Plan Amendment will be held from Friday, September 28, 2012 through Friday, December 28, 2012. The draft plan can be reviewed at the main branch of the Flint Public Library, the headquarters of the Genesee District Library, local units of government, the Genesee County Metropolitan Planning Commission (GCMPCC) offices, and at www.gcmpcc.org. GCMPCC office hours are Monday through Friday, 8:00 a.m. to 12:00 p.m., and 1:00 p.m. to 5:00 p.m. Comments may be made in person or by mail, telephone, facsimile, or e-mail. A public hearing for the plan is scheduled for:

Thursday, November 8, 2012, at 9:00 a.m.
Harris Auditorium, 3rd Floor
Genesee County Administration Building
1101 Beach Street, Flint

This hearing complies with the intent of the Michigan Environmental Protection Act, 1994. The Genesee County Metropolitan Planning Commission will furnish reasonable auxiliary aids and services to individuals with disabilities upon request. Individuals with disabilities requiring auxiliary aids and services should contact the Planning Commission by writing or calling the address listed below.

After the comment period, the Solid Waste Management Planning Committee will make any necessary changes based on comments received, either in writing or at the public hearing. All written comments should be submitted in writing to:

Genesee County Metropolitan Planning Commission
Attn: Mr. Jason Nordberg
1101 Beach Street, Room 223
Flint, MI 48802
Phone: (810)-257-2010
Facsimile: (810)-257-2125
E-mail: gcmpcc@co.genesee.mi.us
Michigan Relay Center: 1-800-645-3777 or 711
An Equal Opportunity Organization

RECEIVED
GENESEE COUNTY
OCT 05 2012
METROPOLITAN
PLANNING COMMISSION

m/departments/planning_con GENEESEE COUNTY

Planning Commission

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Email Print

ATTENTION!

PUBLIC COMMENT PERIOD & PUBLIC HEARING:

The Genesee County Solid Waste Management Plan Amendment that is authorized under Act 451, Part 115 of the Michigan Environmental Protection Act, 1994 will be released for public review and comment. The release of the draft plan amendment is the first task in the approval process of the plan.

A 90-day public comment period for the Draft Solid Waste Management Plan Amendment will be held from Friday, September 28, 2012 through Friday, December, 28, 2012. The draft plan can be reviewed at the main branch of the Flint Public Library, the headquarters of the Genesee District Library, local units of government, the Genesee County Metropolitan Planning Commission (GCMPC) offices, and at the [GCMPC Website](#). GCMPC office hours are Monday through Friday, 8:00 a.m. to 12:00 p.m., and 1:00 p.m. to 5:00 p.m. Comments may be made in person or by mail, telephone, facsimile, or e-mail. A public hearing for the plan is scheduled for:

Thursday, November 8, 2012, at 9:00 a.m.
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After the comment period, the Solid Waste Management Planning Committee will make any necessary changes based on comments received, either in writing or at the public hearing. All written comments should be submitted in writing to:

Genesee County Metropolitan Planning Commission
 Attn: Mr. Jason Nordberg
 1101 Beach Street, Room 223
 Flint, MI 48502
 Phone: (810)-257-3010 Facsimile: (810)-257-3185
 E-mail: gcmpec@co.genesee.mi.us
 Michigan Relay Center: 1-800-649-3777 or 711
 "An Equal Opportunity Organization"

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GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE MEETING
May 7, 2013, 2:00 p.m.

MINUTES

The Solid Waste Management Planning Committee met at 2:00 p.m. on Tuesday, May 7, 2013, in the Conference Room of the Genesee County Metropolitan Planning Commission (GCMPC), 1101 Beach Street, Room 223, Flint, Michigan.

I. CALL TO ORDER

 Chairman Brake called the meeting to order at 2:05 pm.

II. ROLL CALL

 **Present:** Amy Freeman-Rosa, Bob Thornton, Derek Bradshaw, Jacky King, Pegge Adams, Rebecca Fedewa, Mike Csapo, Paul Brake, John Morrissey.

Absent/Excused: Dan Gudgel, Fred Domine, Holly Lubowicki, Bernie Scibienski, Jason Gagne.


Others Present: Tim Church, Dominic Remmes, Joseph Madore, Jason Nordberg, Kelly Richardson.

III. OPPORTUNITY FOR PUBLIC COMMENT


 None.


IV. MINUTES

Minutes of the January 17, 2013 Regular Meeting


 **Motion: Action:** Approve, **Moved by** Mike Csapo, **Seconded by** Jacky King, to approve the minutes of the January 17, 2013 meeting, as written.

V. COMMUNITY AND ECONOMIC DEVELOPMENT COMMITTEE OF THE BOARD OF COMMISSIONERS CHANGES TO SWP

 Ms. Richardson reviewed the one change proposed by the Community and Economic Development Committee, in regards to the Richfield Landfill property description, and stated that this committee must discuss it and provide a written statement back to the Board of Commissioners. Discussion ensued. Comments were heard from Joe Madore, Richfield Township Supervisor, and Dominic Remmes of Brent Run Landfill.

 **Motion: Action:** Approve, **Moved by** Mike Csapo, **Seconded by** Amy Freeman-Rosa, to approve the facility description for the Richfield Landfill, including that the total area sited for use has an asterisk foot note that reads that should the MDEQ move forward with permanent closure and the property on which the total area permitted for use reverts to public ownership, then the total area sited for use by the County shall be limited to the total area permitted at the time of closure.

Motion passed unanimously.

 **Motion: Action:** To Amend, **Moved by** Pegge Adams, **Seconded by** Jacky King, to amend the motion that such amendment is subject to review by Corporation Counsel.
Motion passed unanimously.

VI.ADJOURNMENT

Mr. Brake adjourned the meeting at 3:06 pm.


Respectfully submitted,
Nichole Odette, Secretary

GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE MEETING
January 17, 2013, 2:00 p.m.


MINUTES

The Solid Waste Management Planning Committee met at 2:00 p.m. on Thursday, January 17, 2013, in the Conference Room of the Genesee County Metropolitan Planning Commission (GCMPC), 1101 Beach Street, Room 223, Flint, Michigan.

I. CALL TO ORDER

 Chairman Brake called the meeting to order at 2:02 p.m. and introduced the new Secretary, Nichole Odette. Mr. Brake asked the members to introduce themselves by name and affiliation.

II. ROLL CALL

 **Present:** Amy Freeman-Rosa, Bob Thornton, Dan Gudgel, Derek Bradshaw, Fred Domine, Jason Gagne, John Morrissey, Mike Csapo, Paul Brake, Pegge Adams, Rebecca Fedewa.

Absent/Excused: Bernie Scibienski, Holly Lubowicki, Jacky King.


Others present: Joseph Madore, Jason Nordberg, Kelly Richardson.

III. OPPORTUNITY FOR PUBLIC COMMENT

 None.


IV. MINUTES

Minutes of the September 20, 2012 Regular Meeting


 **Motion: Action:** Approve, **Moved by** Pegge Adams, **Seconded by** Bob Thornton to approve the minutes of the September 20, 2012 meeting, as written.


Motion passed unanimously.

V. COMMENTS RECEIVED DURING PUBLIC COMMENT PERIOD


 Ms. Richardson briefed the committee on the comments received by the DEQ and a Resolution from the Genesee County Parks and Recreation Commission. Ms. Richardson discussed the minor updates staff made to the SWMP, per comments received. Discussion ensued.

VI. FINAL PLAN DRAFT


 Ms. Richardson stated that although staff is not requesting committee approval of the SWMP today, it should be presented to the Board of Commissioners within the next 30 days. Discussion ensued.

 **Motion: Action:** Approve, **Moved by** John Morrissey, **Seconded by** Jason Gagne to approve the final draft of the SWMP.
Motion passed unanimously.

VII. TIMELINE PROGRESS

 Ms. Richardson stated that now approved, the SWMP will go to the Board of Commissioner's C& ED Committee meeting on February 13th, then on to the full Board on March 20th. If approved, staff will then present the SWMP to all 33 local units; however, an approval rate of 67% is required before the SWMP can be sent to the DEQ. The SWMPC will not reconvene unless the Board of Commissioners sends it back with concerns.

VII. ADJOURNMENT

 Mr. Brake adjourned the meeting at 2:56 p.m.

Respectfully submitted,
Nichole Odette, Secretary



ROOM 223 – 1101 BEACH STREET

FLINT, MICHIGAN 48502-1470

TELEPHONE (810) 257-3010 FAX (810) 257-3185

GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
GENESEE COUNTY ADMINISTRATION BUILDING
1101 BEACH STREET
GENESEE COUNTY METROPOLITAN PLANNING COMMISSION
CONFERENCE ROOM, 2ND FLOOR
THURSDAY, SEPTEMBER 20, 2012
2:00 P.M.

MINUTES

I. Introductions

Roll Call.

Present: Bernie Scibienski, Bob Thornton, Dan Gudgel, Fred Domine, Holly Lubowicki, Jacky King, Jason Gagne, Mike Csapo, Patrick Gleason, Paul Brake, Rebecca Fedewa.

Absent/Excused: Amy Freeman-Rosa, John Morrissey.



Staff Present: Derek Bradshaw, Peggy Cole, Jason Nordbert, Kelly Richardson

Others Present: Pegge Adams, Joe Madore, Carol Hinterman, Bobbie Walton

II. Opportunity for Public Comment

 Carol Hinterman
Pegge Adams


III. Minutes of the August 16, 2012 SWMPC (attached)***

  **Motion:** Approve the minutes of the August 16, 2012 meeting, as written, **Moved by** Bernie Scibienski, **Seconded by** Bob Thornton.
Motion passed unanimously.

AN EQUAL OPPORTUNITY ORGANIZATION

IV. Import/Export Authorizations (attached)***


 Kelly Richardson reviewed.

 **Motion:** Approve the Import/Export Authorizations and include them in the final draft of the Solid Waste Management Plan, **Moved by** Bernie Scibienski, **Seconded by** Bob Thornton.

Motion passed unanimously.

V. Final Plan Draft (attached)***

 Kelly Richardson reviewed.


 **Motion:** Approve with new verbage in the conclusion regarding Richfield landfill, and release for 90 day public comment, **Moved by** Bernie Scibienski, **Seconded by** Jason Gagne.

Motion passed unanimously.

VI. Timeline Progress (attached)

 Kelly Richardson summarized.

VII. October/November Meeting Change

 Because of the public comment period, there will be no SWMPC meetings in October or November, unless necessary for urgent business.

VIII. Adjournment

 Chairperson Brake, without objection, adjourned the meeting at 2:55 p.m.

Respectfully submitted,
Peggy Cole, Secretary
GCMPC



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

January 4, 2013

Ms. Kelly Richardson,
Genesee County Metropolitan Planning Commission
1101 Beach Street, Room 223
Flint, Michigan 48502

**RECEIVED
GENESEE COUNTY**

JAN 10 2013

**METROPOLITAN
PLANNING COMMISSION**

Dear Ms. Richardson:

SUBJECT: 2012 Genesee County Solid Waste Management Plan Amendment

The Department of Environmental Quality (DEQ) received and reviewed the documentation provided by the Genesee County Metropolitan Planning Commission for the draft 2012 Genesee County Solid Waste Management Plan (Plan) Amendment 90-day public comment period beginning September 28, 2012. The first few comments apply to the Plan Amendment overall.

Not all of the pages currently show a page number; please make sure that each page is labeled with a page number, for easier reference.

Please note that there is a lot of duplicative language is found in the Plan Amendment and the Technical Reports and Genesee County Recycling Assessment (Recycling Assessment) found in the Appendix; therefore, please ensure that all changes identified in this letter within the Plan Amendment are also corrected in the appropriate areas within the Technical Reports and Recycling Assessment.

Additionally, to alleviate any confusion regarding any conflicting information that may exist between the Plan Amendment and the Technical Reports and Recycling Assessment, please add a statement at the beginning of the Plan Amendment to indicate that the information found in the body of the Plan Amendment will take precedence over the Technical Reports and Recycling Assessment.

Once an acronym is identified, please continue to use it throughout the Plan Amendment. One example, on page 12, first sentence, the Plan Amendment identifies the Genesee Metropolitan Planning Commission as "GCMPC" and again identifies the same acronym on page 19.

Additionally, please use acronyms consistently throughout the Plan Amendment. One example, on page 7, third paragraph, first sentence, the Plan Amendment identifies the Michigan Department of Environmental Quality as "MDEQ"; however, on page 9, third paragraph, the Plan Amendment identifies "DEQ" and in the fourth paragraph on page 9 identifies the same entity as "Michigan DEQ."

While not a requirement, it would be helpful to place dividers between each of the format sections. This would allow for easier distinction between each section for reviewing and reference purposes.

Comments will be addressed below in the same order as the topics appear in the Plan Amendment.

Page 2, 2012 Plan Update Cover Page should be changed to reflect that this is a Plan Amendment and not an update that was initiated by the DEQ Director. Therefore, the title should be "2012 Plan Amendment Cover Page."

Pages 4 – 5, Table of Contents, The Selected Solid Waste System, does not identify where the siting procedure or local ordinance and regulations sections are in the Plan Amendment. Please add these sections as appropriate to the Table of Contents.

Page 9, Executive Summary, Conclusions, Richfield Landfill, while not an approval issue; the Plan Amendment specifically describes this facility and does not identify the other facilities that are located within the County. In an effort to be equitable, it is suggested that you also identify and describe the other facilities located in the County as well or, alternatively, delete the description for the Richfield Landfill.

Page 29, Database Section, Total Waste Generated, does identify the total waste generated for each sector; however, the DEQ format requires the following two items to be included in the Plan: "Total Quantity of Solid Waste Generated" and "Total Quantity of Solid Waste Needing Disposal." Also, the total quantity of solid waste needing disposal is the total waste generated minus any existing diversion programs. This section allows the DEQ and others to determine the landfill disposal capacity needed for the County. Please add this information to the Plan Amendment.

Page 30, Database Section, Solid Waste Area Summaries, second paragraph, last sentence indicates to "see the selected system section of the plan for the facility descriptions." In order to alleviate any confusion on where this information can be found, please indicate the page number where this information starts; in this case, it starts on page 49 of the Plan Amendment.

Similarly, page 31, Database Section, Solid Waste Collection Services and Transportation Infrastructure, last sentence should also include the page number where this information can be found; in this case it starts on page 57 of the Plan Amendment.

Page 44, Selected Solid Waste Management System Section, Importation and Exportation Authorizations, last paragraph states, "...Genesee County may authorize all other Michigan counties for importation and exportation of solid waste not specifically listed in the Import and Export Authorization Tables pending future solid waste import/export authorizations requests." The Plan Amendment must specifically identify the counties that are authorized for importation and exportation. As discussed with you on December 19, 2012, the County can either list all of the desired import/export

counties for authorization; then let the reciprocity exist, if and only if, the importing or exporting county has Genesee County identified as an authorized county. Alternatively, Genesee County can identify the desired counties and require an import/export agreement to be signed by the other county in order to be authorized per the Plan Amendment.

Page 47, Selected Solid Waste Management System Section, Current Export Authorization of Solid Waste Table 2-A, the first footnote in the table appears to be missing some language. A similar issue can be found on pages 67 under "Existing and Proposed Recycling" and 70 under "Existing and Proposed Composting."

Page 49, Selected Solid Waste Management System Section, Solid Waste Disposal Areas, last sentence of the first paragraph states, "Any new Type B transfer facilities that may become operation after this plan amendment that are owned and/or sponsored by the County or any municipality within the County will be considered consistent with this plan." This is not the appropriate area of the Plan Amendment for this siting language. This language should be moved to the "Siting Review Procedures" found on page 83 of the Plan Amendment under the "Siting Criteria and Procedures" section.

Pages 50 through 56, Facility Descriptions, none of these pages are labeled with a page number; please add page numbers appropriately. For clarification purposes only, please note the "Site Size" information found on each of the facility description pages identifies the "total area sited for use" acreage. The facility would be authorized by the County to site/expand a facility up to the number of acres identified under this category.

Page 83, Selected Solid Waste Management System Section, Siting Review Procedures, it would alleviate confusion if language would be added to this section indicating that the all sited for use acreages identified under the facility descriptions for Genesee County facilities are authorized by the Plan Amendment.

Also, while not an approval issue, because the Plan Amendment does not contain a siting process, if any future recycling and utilization activities no specifically authorized in the plan amendment, such as setting up a dirty material recovery facility/processing facility would like to be sited, the County would need to do a Plan Amendment in order to allow this type of activity to take place.

Page 86, Selected Solid Waste Management System Section, Genesee County Municipalities, second sentence states, "They must provide local ordinances or other mechanisms to ensure that solid waste is disposed of according to Act 451...." Please note that any ordinance, law, rule, regulation, policy or practice of a municipality, county, or government authority, which prohibits or regulates the location, development or operation of a solid waste disposal area must be included in the Solid Waste Management Plan. Otherwise it is considered to be in conflict with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and is not enforceable. Therefore, once these ordinances are adopted a Plan Amendment will need to be completed.

Page 86, Selected Solid Waste Management System Section, Michigan Department of Environmental Quality, last sentence states, "The DEQ also oversees the Genesee County Solid Waste and Recycling Program, including the preparation and implementation of the Solid Waste Management Plan." While the DEQ does oversee these programs, it should be noted that the implementation of the Plan is done within and by the County.

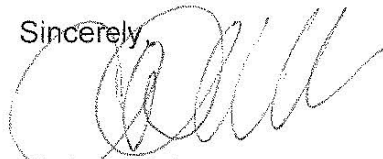
Additionally, the DEQ does approve County Solid Waste Management Plans (County Plans) and will prepare those County Plans when the county and municipalities decline to prepare a plan update; however, the preparation of a County Plan is usually the responsibility of the county itself.

Page 89, Selected Solid Waste Management System Section, Local Ordinances and Regulations Affecting Solid Waste Disposal, number 3 is checked that states, "This Plan authorizes adoption and implementation of local ordinances governing the following subjects by the indicated units of government without further authorization from or amendment to the Plan." However, there were no allowable areas of local regulation identified. Please make sure to either uncheck this box or list the areas of regulation that are allowed.

Appendix D, the Plan Amendment refers to a Genesee County Solid Waste Ordinance; however, one was not included in the Plan Amendment. Prompted by our conversation, you did email me a copy of the ordinance; however, please make sure to include the ordinance in the Plan Amendment in Appendix D. Also, please include the location of this section in the Table of Contents as well.

If you have any questions or comments, please contact me at the telephone number below; via e-mail at millerc1@michigan.gov; or DEQ, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,



Christina Miller
Sustainable Materials Management Unit
Solid Waste Section
Office of Waste Management and
Radiological Protection
517-373-4741

cc: Mr. Jason Nordberg, Genesee County
Ms. Rhonda S. Oyer, DEQ
Genesee County File

GENESEE COUNTY PARKS AND RECREATION COMMISSION

RECEIVED
GENESEE COUNTY

NOV 02 2012

METROPOLITAN
PLANNING COMMISSION

RESOLUTION NO. 010-12

WHEREAS, the Genesee County Parks and Recreation Commission (the Commission) has been entrusted with jurisdiction over the recreational use of the Holloway Reservoir, portions of which are near the location of the Richfield Landfill in Richfield Township, Michigan, and

WHEREAS, Richfield Landfill is operated pursuant to Solid Waste Disposal Area Operating License, a Corrective Action Plan and Consent Judgement issued by or approved by the Michigan Department of Natural Resources; and

WHEREAS, these documents under which Richfield Landfill is being operated contain requirements with respect to construction and operation of the Landfill, including, among other things, the construction of a slurry wall around the landfill area sufficient to prevent the migration of the contents of the Landfill into the surrounding land and aquifer and provisions for a long term plan to dispose of the leachate taken from the Landfill in a manner that protects the surrounding area, including the Holloway Reservoir; and

WHEREAS, these documents also require that the Landfill be operated in compliance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, Michigan Compiled Laws 324.11501 et seq, and the administrative rules promulgated pursuant to the Act; and

WHEREAS, the operators of the Landfill have not complied with these requirements; and

WHEREAS, the Genesee County Metropolitan Planning Commission has convened a public hearing for the consideration of a Solid Waste Management Plan for the County of Genesee where the potential continuation of the operation or expansion of the Richfield Landfill is under consideration; and

WHEREAS, the Commission has an interest in preserving the quality of the Holloway Reservoir both in its recreation use and as a source of drinking water for residents within Genesee County; and

WHEREAS, violation of the conditions referenced above in the continued operation of the Richfield Landfill as above specified have caused the actual and potential migration of the contents of the Landfill into the surrounding area and eventually into the Holloway Reservoir.

NOW, THEREFORE, BE IT RESOLVED, that the Genesee County Parks and Recreation Commission does hereby urge the Genesee County Metropolitan Planning Commission to include in its Solid Waste Management Plan as a condition for any further

continued operation of the Richfield Landfill that it first comply with all conditions of the License, the Corrective Action Plan and Consent Judgement under which it is currently being operated and the imposition of such other and further conditions as will, in the opinion of the Planning Commission, ensure a proper, efficient and safe operation of the Landfill to protect the surrounding landowners from the deleterious effects of such operation and prevent the migration of leachate and other materials from the Landfill into surrounding lands and the Holloway Reservoir.

I do hereby certify that the foregoing resolution was adopted by vote at a meeting of the Genesee County Parks and Recreation Commission on the 25th of October, 2012.

GENESEE COUNTY PARKS AND
RECREATION COMMISSION
Genesee County, Michigan



By: WILLIAM C. LUCAS
Its: SECRETARY

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ROOM 223 – 1101 BEACH STREET

FLINT, MICHIGAN 48502-1470

TELEPHONE (810) 257-3010 FAX (810) 257-3185

GENESEEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
GENESEEE COUNTY ADMINISTRATION BUILDING
1101 BEACH STREET
GENESEEE COUNTY METROPOLITAN PLANNING COMMISSION
CONFERENCE ROOM, 2ND FLOOR
THURSDAY, SEPTEMBER 20, 2012
2:00 P.M.

MINUTES

I. Introductions

Roll Call.

Present: Bernie Scibienski, Bob Thornton, Dan Gudgel, Fred Domine, Holly Lubowicki, Jacky King, Jason Gagne, Mike Csapo, Patrick Gleason, Paul Brake, Rebecca Fedewa.

Absent/Excused: Amy Freeman-Rosa, John Morrissey.



Staff Present: Derek Bradshaw, Peggy Cole, Jason Nordbert, Kelly Richardson

Others Present: Pegge Adams, Joe Madore, Carol Hinterman, Bobbie Walton

II. Opportunity for Public Comment

 Carol Hinterman
Pegge Adams

III. Minutes of the August 16, 2012 SWMPC (attached)***

  **Motion:** Approve the minutes of the August 16, 2012 meeting, as written, **Moved by** Bernie Scibienski, **Seconded by** Bob Thornton.
Motion passed unanimously.

AN EQUAL OPPORTUNITY ORGANIZATION

IV. Import/Export Authorizations (attached)***


 Kelly Richardson reviewed.

 **Motion:** Approve the Import/Export Authorizations and include them in the final draft of the Solid Waste Management Plan, **Moved by** Bernie Scibienski, **Seconded by** Bob Thornton.

Motion passed unanimously.

V. Final Plan Draft (attached)***

 Kelly Richardson reviewed.


 **Motion:** Approve with new verbage in the conclusion regarding Richfield landfill, and release for 90 day public comment, **Moved by** Bernie Scibienski, **Seconded by** Jason Gagne.

Motion passed unanimously.

VI. Timeline Progress (attached)

 Kelly Richardson summarized.

VII. October/November Meeting Change

 Because of the public comment period, there will be no SWMPC meetings in October or November, unless necessary for urgent business.

VIII. Adjournment

 Chairperson Brake, without objection, adjourned the meeting at 2:55 p.m.

Respectfully submitted,
Peggy Cole, Secretary
GCMPC



ROOM 223 – 1101 BEACH STREET

FLINT, MICHIGAN 48502-1470

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GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
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GENESEE COUNTY METROPOLITAN PLANNING COMMISSION
CONFERENCE ROOM, 2ND FLOOR

THURSDAY, AUGUST 16, 2012
2:00 P.M.

A-G-E-N-D-A

I. Introductions

  **Roll Call.** Meeting was called to order by Chairperson Brake at 2:06 p.m.

Present: Amy Freeman-Rosa, Bob Thornton, Jacky King, Jason Gagne, John Morrissey, Mike Csapo, Patrick Gleason, Paul Brake.

Absent/Excused: Bernie Scibienski, Dan Gudgel, Fred Domine, Holly Lubowicki, Rebecca Fedewa.

II. Opportunity for Public Comment

No public comments.

III. Minutes of the July 19, 2012 SWMPC (attached)***

 **Motion:** Approve, **Moved by** Mike Csapo, **Seconded by** Jason Gagne.

Motion passed unanimously.

IV. Import/Export Authorizations (attached)***

AN EQUAL OPPORTUNITY ORGANIZATION

 No Action taken-will revisit in September.

V. Final Plan Draft (attached)

 Ann Marie Kerby reviewed

VI. Timeline Progress (attached)

 Kelly Richardson reviewed

VII. Adjournment

 Mr. Bradshaw announced that Ms. Kerby was leaving for a job in Cincinnati.

Paul Brake adjourned the meeting at 3:10 p.m.

*****Action Item**

Respectfully submitted,
Peggy Cole, Secretary
GCMPC



ROOM 223 – 1101 BEACH STREET

FLINT, MICHIGAN 48502-1470

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GENESEEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
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CONFERENCE ROOM, 2ND FLOOR

THURSDAY, JULY 19, 2012
2:00 P.M.


I. Introductions

 **Roll Call**



Present: Amy Freeman-Rosa, Bob Thornton, Dan Gudgel, Holly Lubowicki, Rebecca Fedewa. Mike Csapo

Absent/Excused: Bernie Scibienski, Fred Domine, Jacky King, Jason Gagne, John Morrissey, Patrick Gleason, Paul Brake.

II. Opportunity for Public Comment



 There were no public comments,

III. Minutes of the June 21, 2012 SWMPC (attached)***

  **Motion:** To approve, **Moved by** Amy Freeman-Rosa, **Seconded by** Mike Csapo.

Motion passed unanimously.

IV. Technical Report 3 (attached)***

  **Motion:** To approve, **Moved by** Amy Freeman-Rosa, **Seconded by** Mike Csapo.

Motion passed unanimously.

V. Technical Report 4 (attached)***

  **Motion:** Approve, minus import/export, **Action:** Approve, **Moved by** Dan Gudgel, **Seconded by** Rebecca Fedewa.

AN EQUAL OPPORTUNITY ORGANIZATION

Motion passed by a vote of 5 yeas, 1 nay

VI. Executive Summary Draft (attached)



VII. Import/Export Letter Response Update



VIII. Timeline Progress (attached)



Meeting was adjourned, without objection, at 3:04 p.m. by Vice Chairperson Bob Thornton.

*****Action Item**



ROOM 223 – 1101 BEACH STREET

FLINT, MICHIGAN 48502-1470

TELEPHONE (810) 257-3010 FAX (810) 257-3185

JULIE A. HINTERMAN
DIRECTOR-COORDINATOR

GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
GENESEE COUNTY ADMINISTRATION BUILDING
1101 BEACH STREET
GENESEE COUNTY METROPOLITAN PLANNING COMMISSION
CONFERENCE ROOM, 2ND FLOOR

THURSDAY, JUNE 21, 2012
2:00 P.M.

DRAFT MINUTES

I. Introductions


 **Roll Call.**

Present: Bob Thornton, Jason Gagne, John Morrissey, Mike Csapo, Paul Brake, Rebecca Fedewa, Lee McAllister.



Absent/Excused: Amy Freeman-Rosa, Bernie Scibienski, Dan Gudgel, Fred Domine, Holly Lubowicki, Jacky King, Patrick Gleason.

The meeting was called to order at 2:03 p.m., by Vice Chairperson Bob Thornton, however, Chairperson Paul Brake arrived shortly thereafter and chaired the remainder of the meeting.

II. Opportunity for Public Comment

 There was no public comment(s).

III. Minutes of the May 17, 2012 SWMPC (attached)***

  **Motion: To approve the Minutes of the May 17, 2012 SWMPC meeting, as written , Action: Approve, Moved by** Bob Thornton, **Seconded by** John Morrissey. Motion passed unanimously.

IV. Technical Report 3 (attached)***

 No action taken, will reconsider next month.

AN EQUAL OPPORTUNITY ORGANIZATION

V. Import/Export Authorization Letter (attached)***

  **Motion: To approve the Import/Export Authorization letter, as presented,**
Action: Approve, **Moved by** Bob Thornton, **Seconded by** Jason Gagne. Motion passed by a vote of 6 yeas to 1 nay (Morrissey)

VI. Technical Report 4 Draft (handout)



VII. Presentation on Facility Tours



VIII. Presentation on MDEQ Meeting



IX. Timeline Progress (attached)



X. Adjournment

Paul Brake, without objection, adjourned the meeting at 3:21p.m.

***Action Item

Respectfully submitted,
Peggy Cole, Secretary
GCMPC



ROOM 223 – 1101 BEACH STREET

FLINT, MICHIGAN 48502-1470

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JULIE A. HINTERMAN
DIRECTOR-COORDINATOR

GENESEEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
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CONFERENCE ROOM, 2ND FLOOR

THURSDAY, MAY 17, 2012
2:00 P.M.

A-G-E-N-D-A

I. Introductions

Roll Call.



Present: Amy Freeman-Rosa, Bernie Scibienski, Bob Thornton, Dan Gudgel, Fred Domine, Holly Lubowicki, John Morrissey, Julie Hinterman, Patrick Gleason, Paul Brake, Rebecca Fedewa.

Absent/Excused: Jacky King, Jason Gagne, Mike Csapo.



Also Present: Derek Bradshaw, Peggy Cole, Ann Marie Kerby, Jason Nordberg, Kelly Richardson

II. Opportunity for Public Comment

III. Minutes of April 19, 2012 (attached)***

  **Motion: Action:** Approve, **Moved by** Amy Freeman-Rosa, **Seconded by** Bernie Scibienski.
Motion passed unanimously.

IV. Technical Report 2 (attached)***

  **Motion: , Action:** Approve, **Moved by** Dan Gudgel, **Seconded by** John Morrissey.
Motion passed unanimously.

V. Technical Report 3 Draft (attached)

AN EQUAL OPPORTUNITY ORGANIZATION

VI. Import/Export Authorization Letter Draft (attached)



VII. Michigan Recycling Coalition Conference Update



VIII. Kent County MRF Update

IX. Facility Tours Update



X. Technical Report 4 – Selected Solid Waste System and Implementation Strategy (attached)



XI. Timeline Progress (attached)

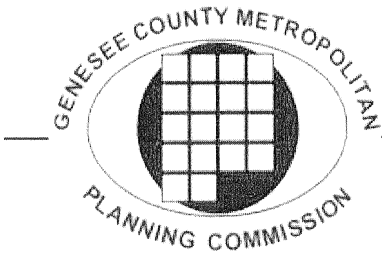


XII. Adjournment



3:20 p.m.

*****Action Item**



ROOM 223 – 1101 BEACH STREET

FLINT, MICHIGAN 48502-1470

TELEPHONE (810) 257-3010 FAX (810) 257-3185

JULIE A. HINTERMAN
DIRECTOR-COORDINATOR

**GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
GENESEE COUNTY ADMINISTRATION BUILDING
1101 BEACH STREET
GENESEE COUNTY METROPOLITAN PLANNING COMMISSION
CONFERENCE ROOM, 2ND FLOOR**

**THURSDAY, APRIL 19, 2012
2:00 P.M.**

MINUTES

I. Introductions

Roll Call. Present: Bernie Scibienski, Bob Thornton, Dan Gudgel, Fred Domine, Jason Gagne, Julie Hinterman, Mike Csapo, Paul Brake.*

Absent/Excused: Amy Freeman-Rosa, Holly Lubowicki, Jacky King, John Morrissey, Patrick Gleason, Rebecca Fedewa.

II. Opportunity for Public Comment

***** III. Minutes of March 15, 2012 (attached)**

Motion: Action: Approve, **Moved by** Julie Hinterman, **Seconded by** Jason Gagne.

Motion passed unanimously.

*****IV. Genesee County Recycling Assessment & Strategies (attached)**

Motion: Action: Approve, **Moved by** Mike Csapo, **Seconded by** Dan Gudgel.

Motion passed unanimously.

AN EQUAL OPPORTUNITY ORGANIZATION

IV. Inventory of Solid Waste Areas and Deficiencies in the Solid Waste System
Technical Report & Summary (handout)

Ms. Kerby made a PowerPoint Presentation

VI. Goals and Objectives (handout)

VII. Timeline Progress

VII. Adjournment

Chairperson Brake adjourned the meeting at 3:28 p.m.

***** Action Item**

Others present: Derek Bradshaw, Jason Nordberg, Kelly Richardson, Ann Marie Kerby, Peggy Cole and Commissioner Northrup. *Mr. King arrived and picked up all the information, but had to leave before the meeting, so he did not vote.

GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE

GCMPC Conference Room
March 15, 2012 at 2:00 p.m.



CALL TO ORDER – the meeting was called to order at 2:00 p.m.

I. INTRODUCTIONS

Roll Call.

Present: Amy Freeman-Rosa, Bernie Scibienski, Bob Thornton, Dan Gudgel, Fred Domine, Holly Lubowicki, Jason Gagne, Julie Hinterman, Patrick Gleason, Paul Brake - Chairperson, Rebecca Fedewa.

Absent/Excused: Jacky King, John Morrissey, Mike Csapo.

Others Present: Derek Bradshaw, Ann Marie Kerby, Jason Nordberg, Steve Essling



II. OPPORTUNITY FOR PUBLIC COMMENT



III. MINUTES OF FEBRUARY 16, 2012

Motion: to approve the minutes of February 16, 2012 as presented,

Action: Approve, **Moved by** Bob Thornton, **Seconded by** Amy Freeman-Rosa.

Motion passed unanimously.



IV. GENESEE COUNTY RECYCLING ASSESSMENT & STRATEGIES



V. COUNTY OVERVIEW & DATA COLLECTION FINAL DRAFT SUMMARY & TECHNICAL REPORT

Motion: to approve the County Overview and Data Collection Final Summary and Technical Report as presented, **Action:** Approve, **Moved by** Bernie Scibienski, **Seconded by** Bob Thornton.

Motion passed unanimously.

 VI. PUBLIC NEEDS ASSESSMENT

 VII. WORKING SESSION

VII. INVENTORY OF SOLID WASTE AREAS AND DEFICIENCIES IN THE SOLID WASTE SYSTEM

 VIII. TIMELINE PROGRESS

 IX. ADJOURNMENT

Chairperson Paul Brake adjourned the meeting at 3:53 a.m.

Respectfully submitted,
Alberta Gunsell, Secretary

**GENESEE COUNTY SOLID WASTE
MANAGEMENT PLANNING COMMISSION
MEETING MINUTES
FEBRUARY 16, 2012**

The Genesee County Solid Waste Management Planning Commission met at 1:30 p.m. on Thursday, February 16, 2012, in the Conference Room of the Genesee County Metropolitan Planning Commission (GCMPC), 1101 Beach Street, Room 223, Flint, Michigan.

MEMBERS PRESENT: Paul Brake, City of Grand Blanc, City Manager, Chairman
Mike Csapo, RRASSOC, General Manager
Fred Domine, Montrose Township, Clerk
Rebecca Fedewa, Flint River Watershed Coalition
Amy Freeman-Rosa, Enviroworld
Jason Gagne, Republic Waste Services - Hauling
Patrick Gleason, Genesee County Commissioner
Dan Gudgel, Brent Run Landfill
Julie Hinterman, GCMPC
Jacky King, Harvesting Earth Educational Farm
Holly Lubowicki, Keep Genesee County Beautiful
John Morressey, Great Lakes Recycling
Bob Thornton, Citizen's Landfill, Vice-Chairperson

MEMBERS ABSENT: Bernie Scibienski, Landaal Packaging

OTHERS PRESENT: Derek Bradshaw, GCMPC
Steve Essling, Waste Management
John Gall, Waste Management
Alberta Gunsell, GCMPC
Ann Marie Kerby, GCMPC
Joseph Madore, Richfield Township Supervisor
Nate Scramlin, GCMPC

CALL TO ORDER

Chairperson Brake called the meeting to order at 2:00 p.m.

I. INTRODUCTIONS

Introductions were done at this time.

II. OPPORTUNITY FOR PUBLIC COMMENT

No one spoke at this time.

III. **Minutes of January 19, 2012**

Chairperson Brake asked for corrections/additions to the January 19, 2012, regular meeting.

Action Taken: Motion by Mr. Thornton, supported by Ms. Fedewa, to approve the minutes of January 19, 2012 as presented.

MOTION CARRIED UNANIMOUSLY

IV. **Genesee County Recycling Assessment & Strategies**

Mr. Scramlin reviewed the handout of the Genesee County Recycling Assessment & Strategies. The Solid Waste Plan was last done in 2002. The last rate study was completed in 2005. Staff has requested information from local waste haulers and received a lot of useful information to update the plan. In 2011 the countywide residential recycling rate was 17%. From 2005 to 2011 there has been a 200% increase in recycling. Discussion ensued. The committee was asked to review the Genesee County Recycling Assessment & Strategies and if there are any questions or suggestions to email staff.

V. **County Overview & Data Collection Draft Summary & Technical Report**

Ms. Kerby reviewed the first draft summary and technical report of the Solid Waste Plan, titled County Overview and Data Collection. The report looked at land use and socioeconomic projections. The database portion of the report analyzed waste generation numbers. The commercial waste generation Methodology was based on the Washtenaw County methodology. Staff needs to look at the possibility of increasing and decreasing imports and/or exports. Discussion ensued. The committee was asked to review at their leisure and email questions or suggestions to Ms. Kerby.

VI. **Public Needs Assessment & Working Session**

Ms. Kerby stated that at the March 15th Solid Waste meeting, staff will be presenting the results and evaluation of the Public Needs Assessment Survey. Staff will also conduct a working session with the committee to gain valuable insight on deficiencies in the solid waste system and possible solutions to those problems. That meeting is expected to last 2 hours.

VII. **Timeline Progress**

Ms. Kerby stated that at the next meeting staff will be asking for approval on the first summary and technical report with any corrections being made. The second draft report will be available at the April meeting.

Announcements

Mr. Bradshaw advised the committee that Genesee County is going to digital recording of meeting minutes instead of the current paper minutes. The written minutes will be Action Items only. The recordings will be available for review.

Mr. Bradshaw also announced that this was Mr. Scramlin's last day with Genesee County. He will be working with the MEDC Michigan Economic Development Committee as a representative. If there are any questions on the new Solid Waste Plan they should contact Ms. Kerby.

The next scheduled meeting is March 15th.

VIII. ADJOURNMENT

Chairperson Brake adjourned the meeting at 3:08 p.m.

Respectfully submitted,
Alberta Gunsell, Secretary

**GENESEE COUNTY SOLID WASTE
MANAGEMENT PLANNING COMMISSION
MEETING MINUTES
JANUARY 19, 2012**

The Genesee County Solid Waste Management Planning Commission met at 1:30 p.m. on Thursday, January 19, 2012, in the Conference Room of the Genesee County Metropolitan Planning Commission (GCMPC), 1101 Beach Street, Room 223, Flint, Michigan.

MEMBERS PRESENT: Paul Brake, City of Grand Blanc, City Manager
Mike Csapo, RRASSOC, General Manager
Fred Domine, Montrose Township, Clerk
Rebecca Fedewa, Flint River Watershed Coalition
Jason Gagne, Republic Waste Services - Hauling
Dan Gudgel, Bren Run Landfill
Julie Hinterman, GCMPC
Jacky King, Harvesting Earth Educational Farm
John Morrissey, Great Lakes Recycling
Bernie Scibienski, Landaal Packaging Systems
Bob Thornton, Citizen's Landfill

MEMBERS ABSENT: Amy Freeman-Rosa, Enviroworld
Patrick Gleason, Genesee County Commissioner
Holly Lubowicki, Keep Genesee County Beautiful

OTHERS PRESENT: Derek Bradshaw, GCMPC
Peggy Cole, GCMPC
Ann Marie Kerby, GCMPC
Nate Scramlin, GCMPC

CALL TO ORDER

Mr. Bradshaw, acting as Chairperson of this meeting, called the meeting to order at 2:00 p.m. He added one item to the agenda: new item #IV Literature Review and Comment. This item is informational only.

I. INTRODUCTIONS

Introductions were done at this time. Members were present and absent as aforementioned.

II. OPPORTUNITY FOR PUBLIC COMMENT

No one spoke at this time.

III. MINUTES OF DECEMBER 14, 2011

Mr. Bradshaw asked for any additions or corrections to the minutes of the December 15, 2011, regular meeting. There were no additions or corrections. Mr. Bradshaw asked for a motion concerning the minutes.

Action Taken: Motion by Mr. Morrissey, supported by Ms. Hinterman, to approve the minutes of the December 15, 2011 meeting, as written.

MOTION CARRIED UNANIMOUSLY

IV. ELECTION OF OFFICERS

Nominations for the Office of Chairperson:

Recommendation of Election Subcommittee – Paul Brake. Mr. Bradshaw asked if there were any other nominations, three times. There were no other nominations. Nominations were closed. Mr. Brake was elected Chairperson by a unanimous vote.

Nominations for the Office of Vice-Chairperson:

Recommendation of Election Subcommittee – Bob Thornton. Mr. Bradshaw asked if there were any other nominations, three times. There were no other nominations. Nominations were closed. Mr. Thornton was elected Vice-Chairperson by a unanimous vote.

At this time, Mr. Bradshaw turned the meeting over to the newly elected Chairperson, Paul Brake.

V. COMMITTEE BYLAWS

Mr. Scramlin noted the one change that was made since the last meeting, which dealt with what constitutes a quorum. He said it had been decided that the members present, at any given meeting, constitutes a quorum and a majority of that quorum would be necessary to carry a motion. Discussion ensued.

Action Taken: Motion by Mr. Gudgel, supported by Mr. King, to approve the Committee Bylaws, as presented.

MOTION CARRIED UNANIMOUSLY

VI. GENESEE COUNTY SOLID WASTE PUBLIC NEEDS ASSESSMENT

Mr. Scramlin reviewed the Public Needs Assessment. He added that there will be incentives to fill out the needs assessment on Survey Monkey. Survey Monkey has been used successfully by staff and is an excellent tool. Mr. Bradshaw noted that staff will also be targeting the media on several fronts. Whatever changes are made today will be final, as this assessment needs to be disbursed quickly. Ms. Fedewa volunteered to help with distribution, if needed. There was discussion regarding the wording regarding cardboard. Ms. Hinterman suggested differentiating between plastic grocery bags and plastic. Discussion ensued.

Action Taken: Motion by Mr. Thornton, supported by Mr. Gagne, to approve the Genesee County Solid Waste Public Needs Assessment, as amended.

MOTION CARRIED UNANIMOUSLY

VII. LITERATURE REVIEW AND COMMENT

Mr. Scramlin noted that the literature had been distributed at the meeting prior to this one and staff is looking for any comments. The literature includes plans from other areas for BMPs (Best Management Practices). He stated that if there are other plans we should look at, let it be known as soon as possible. Mr. Scibienski stated that UpJohn has a dashboard program we could check out and perhaps combine all four (4) counties into one region. Consolidating has been looked at and dropped, but it will come up again. Discussion ensued.

VIII. COUNTY OVERVIEW AND DATA COLLECTION

Ms. Kerby summarized what will be on this report. Staff is requesting that the committee provide feedback on the plans for this particular report prior to the next meeting.

IX. ADJOURNMENT

Chairperson Brake adjourned the meeting at 2:30 p.m.

Respectfully submitted,
Peggy Cole, Secretary

**GENESEE COUNTY SOLID WASTE
MANAGEMENT PLANNING COMMISSION
MEETING MINUTES
DECEMBER 15, 2011**

The Genesee County Solid Waste Management Planning Commission met at 1:30 p.m. on Thursday, December 15, 2011, in the Conference Room of the Genesee County Metropolitan Planning Commission (GCMPC), 1101 Beach Street, Room 223, Flint, Michigan.

MEMBERS PRESENT: Paul Brake, City of Grand Blanc, City Manager
Mike Csapo, RRASSOC, General Manager
Rebecca Fedewa, Flint River Watershed Coalition
Amy Freeman-Rosa, Enviroworld
Jason Gagne, Republic Waste Services - Hauling
Patrick Gleason, Genesee County Commissioner
Dan Gudgel, Bren Run Landfill
Julie Hinterman, GCMPC
John Morrissey, Great Lakes Recycling
Bob Thornton, Citizen's Landfill

MEMBERS ABSENT: Fred Domine, Montrose Township, Clerk
Jacky King, Harvesting Earth Educational Farm
Holly Lubowicki, Keep Genesee County Beautiful
Bernie Scibienski, Landaal Packaging Systems

OTHERS PRESENT: Derek Bradshaw, GCMPC
Alberta Gunsell, GCMPC
Ann Marie Kerby, GCMPC
Nate Scramlin, GCMPC

CALL TO ORDER

Mr. Bradshaw was the Chairperson of this meeting and called the meeting to order at approximately 1:30 p.m.

I. INTRODUCTIONS

Introductions were done at this time.

II. OPPORTUNITY FOR PUBLIC COMMENT

No one spoke at this time.

III. HISTORY OF GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN

Mr. Bradshaw stated that the current Solid Waste Plan was approved in 2002. Solid Waste Plans are to be updated every 5 years per State guidelines. The municipalities are to be notified by the State advising it is time to update the plan. In last couple year's staff has been looking at our plan and found that it

needs to be amended. Genesee County Solid Waste program has decided to amend the plan. Discussion ensued.

IV. COMMITTEE BYLAWS

Mr. Scramlin reviewed the draft By-Laws for the Genesee County Solid Waste Management Planning Committee. An election sub-committee needs to be formed to compile a slate of officers for election at the next meeting. Contact Mr. Scramlin if you are interested in being on the election sub-committee or accepting the office of Chairperson or Vice-Chairperson after the meeting. The By-Laws are for review and any comments or suggestions can be submitted to Mr. Scramlin by Friday, December 23rd. The By-Laws will be ready for approval at the next meeting.

V. GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN AMENDMENT TIMELINE

Ms. Kerby reviewed the timeline that was distributed at the meeting. Staff has met with MDEQ to discuss the amendment to this plan. The Genesee County Board of Commissioners was contacted along with all of the local units regarding the amendment of the plan. A draft survey that will be distributed to all of the local units will be emailed to the committee on Friday for review and feedback. The local units will need to approve the plan before it can be approved by MDEQ. Discussion ensued.

VI. SOLID WASTE PLAN LITERATURE REVIEW

Ms. Kerby stated that staff reviewed different solid waste plans as a guide for amending our plan. These plans are available to review and a link will be sent to the committee.

VII. 2012 MEETING DATES

Mr. Bradshaw reviewed the 2012 meeting dates. The meetings are scheduled for the third Thursday of each month at 1:30 p.m. It was suggested that the time be moved to 2:00 p.m. Discussion ensued about conference calling into meetings and this needs to be addressed in the By-Laws.

Action Taken: Motion by Ms. Hinterman, supported by Mr. Brake, to approve the meeting dates as submitted with the time being 2:00 p.m.

MOTION CARRIED UNANIMOUSLY

VIII. COMMITTEE EXPECTATIONS

Mr. Bradshaw stated that staff is looking for feedback from the committee on this plan.

Mr. Brake stated that he is interested in increasing recycling possibilities and setting realistic goals for the future.

Mr. Csapo stated he wants the best practices and a good working relationship with the communities.

Mr. Gleason stated that legislative matters regarding the way landfills may affect our large bodies of waters in the future. Also it doesn't seem like there is much protection for county residents from the landfills. There has to be some type of a long term plan regarding what will happen when the landfills are full.

Mr. Bradshaw stated that as a committee member if you have a question you may contact Mr. Bradshaw or Mr. Scramlin.

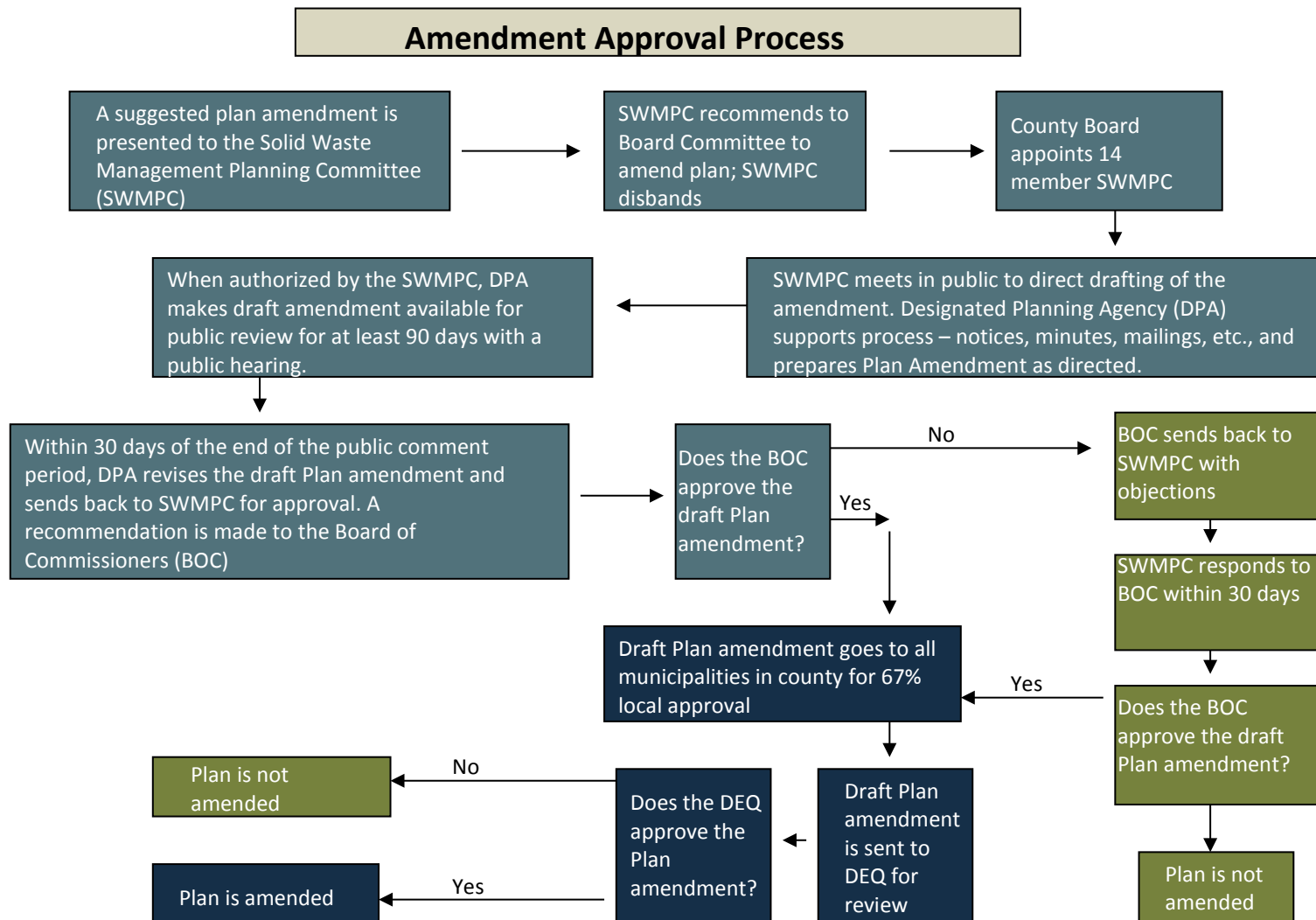
IX. ADJOURNMENT

Mr. Bradshaw adjourned the meeting at approximately 2:12 p.m.

Respectfully submitted,
Alberta Gunsell, Secretary

The Planning Process

The DPA is the GCMPC whose staff is tasked with implementing the Solid Waste Management Plan. The amendment approval process for the Solid Waste Plan is shown below.



Planning Committee Appointment Procedure

BY-LAWS OF THE
GENESEE COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE
COUNTY OF GENESEE
STATE OF MICHIGAN
2012

Article I: Establishment

- Section 1: This Committee was established by the Genesee County Board of Commissioners on November 30, 2011 under the authority of Part 115 of PA 451 of Michigan Public Acts of 1994.
- Section 2: The official title of this Committee shall be the Genesee County Solid Waste Management Planning Committee.

Article II: Scope and Purpose

- Section 1: The Committee shall assist in the preparation of the Solid Waste Management Plan by providing advice and consultation. The duties of the Committee include, but are not limited to:
1. Identification of local policies and priorities.
 2. Insuring coordination and public participation.
 3. Periodically advising the County and Municipalities of the Plan's status.
 4. Reviewing and approving the plan.
 5. Submitting the Plan for approval to the Genesee County Board of Commissioners.
- Section 2: It is the responsibility of the Committee to assure that the Genesee County Metropolitan Planning Commission is fulfilling all the requirements of the act and rules as to both the content of the plan and the public participation.

Article III: Membership

Section 1: Membership on the Committee shall be in accordance with Section 11534 of Part 115 of Act 451 of the Michigan Public Acts of 1994.

Section 2: Membership on the Planning Committee shall include:

1. Four (4) Solid Waste Management Industry
2. Two (2) Environmental Interest Groups
3. One (1) County Government
4. One (1) City Government
5. One (1) Township Government
6. One (1) Regional Solid Waste Planning Agency
7. One (1) Industrial Waste Generators
8. Three (3) General Public

Section 3: The Board of Commissioners of Genesee County shall appoint the Committee.

Article IV: Officers

Section 1: Each year the Committee shall select from its membership a Chairperson and Vice-Chairperson. All officers are eligible for re-election.

Section 2: The Chairperson shall: preside at all meetings; appoint subcommittees; and decide all questions of procedure under the Committee's rules of procedures subject to appeal by a majority vote of the full membership.

Section 3: The Vice-Chairperson shall: preside at a meeting in the absence of the Chairperson; assume the duties and responsibilities of the Chairperson when the Chairperson is absent.

Article V: Meeting

- Section 1: All meetings shall be open to the public, and the public shall be afforded the opportunity to speak.
- Section 2: Any person so requesting, shall be notified by letter not less than seven (7) days before each public meeting at which the Committee plans to discuss the County Plan.
- Section 3: A quorum at any meeting shall consist of the MEMBERS PRESENT at the place and time of meeting. A simple majority of affirmative votes is necessary to pass a motion.


Article VI: Public Hearings and Adoption of a Plan

- Section 1: A Public Hearing shall be held when required by: Part 115 of Public Act 451 of 1994, the duly adopted by-laws of the Solid Waste Planning Committee, or when a majority of the membership of the Committee deem a public hearing necessary. Such a hearing shall be advertised on the GCMPC website described in the initial public notice announcing the amendment to the plan, no less than thirty (30) days before such a hearing. GCMPC staff will also send notices to the public participation list. Additional notices may be posted and sent when deemed necessary by the majority of the membership of the Committee. The notice shall indicate a location where copies of the plan are available for Public inspection and the time and place of the public hearing.
- Section 2: The Solid Waste Management Plan, as designated in Part 115 of Public Act 451 of 1994, shall be approved in accordance with Part 115 of Act 451 of 1994.

Article VII: Parliamentary Procedures

- Section 1: Current edition of Roberts Rules of Order will be referred to for parliamentary procedures.

Article VIII: Amendments



Section 1: Amendments of these by-laws may be made at any meeting of the Committee, provided notice of such amendments was included in the call for the meeting. A majority vote of the members of the Committee is required to amend the by-laws.

Planning Committee

Committee member names and the company, group, or governmental entity represented from throughout the County are listed below.

Four representatives of the solid waste management industry

1. Dan Gudgel, Brent Run Landfill
2. Bob Thornton, Citizen's Disposal
3. Jason Gagne, Republic Waste Services – Hauling
4. John Morrissey, Great Lakes Recycling

One representative from an industrial waste generator

1. Bernie Scibienski, Landaal Packaging Systems

Two representatives from environmental interest groups from organizations that are active within the County

1. Jacky King, Harvesting Earth Educational Farm
2. Rebecca Fedewa, Flint River Watershed Coalition

One representative from County government. All government representatives shall be elected officials or a designee of an elected official.

1. Patrick Gleason, County Commissioner

One representative from township government

1. Fred Domine, Montrose Township Clerk

One representative from city government

1. Paul Brake, City of Grand Blanc Manager



One representative from the regional solid waste planning agency

1. Julie Hinterman, GCMPC

Three representatives from the general public who reside within the County

1. Mike Csapo, Fenton Resident
2. Holly Lubowicki, Flint Resident
3. Amy Freeman-Rosa, Fenton Resident



Appendix D

Plan Implementation Strategy

Resolutions

Listed Capacity

Maps

Inter – County Agreements

Special Conditions



Plan Implementation Strategy

The following discusses how the County intends to implement the plan and provides documentation of acceptance of responsibilities from all entities that will be performing a role in the Plan.

N/A



Resolutions

The following are resolutions from County Board of Commissioners approving municipality's request to be included in an adjacent County's Plan.

TO THE HONORABLE CHAIRPERSON AND MEMBERS OF THE GENESEE COUNTY BOARD OF COMMISSIONERS, GENESEE COUNTY, MICHIGAN

LADIES AND GENTLEMEN:

BE IT RESOLVED, by this Board of Commissioners of Genesee County, Michigan, that the request by the Genesee County Metropolitan Planning Commission to approve the amendment to the Genesee County Solid Waste Management Plan is approved (a copy of the memorandum request dated May 15, 2013, and Solid Waste Plan Amendment being on file with the official records of the May 15, 2013, meeting of the Board of Commissioners).

COMMUNITY & ECONOMIC DEVELOPMENT COMMITTEE
(On agenda with permission of Board and Community & Economic Development
Committee Chairpersons)

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ACT:ms
05-13-13
05-15-C01

C01

RECEIVED
GENESEE COUNTY
MAY 23 2013
METROPOLITAN
PLANNING COMMISSION

RESOLUTION 03-03-14-05

of the

CHARTER TOWNSHIP OF VIENNA

**A RESOLUTION APPROVING THE GENESEE COUNTY SOLID WASTE
MANAGEMENT PLAN**

At a regular meeting of the Township Board of the Charter Township of Vienna, Genesee County, Michigan, held on the 3rd day of March, 2014, at 5:30 P. M. Local Time.

Present: Taylor, Cain, Bryan, Fuller, Lemieux, Belill, Thomas

Absent: None

After discussion, the following resolution was offered by Fuller and seconded by Bryan:

WHEREAS, The plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commissioners; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED by this Board of the Charter Township of Vienna, County of Genesee, Michigan, that the proposed Genesee County Solid Waste Management Plan is an Amendment to the current Plan, and is hereby approved.

ADOPTED:

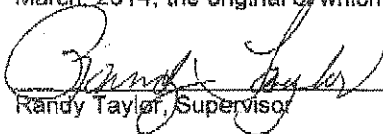
Yeas: Fuller, Lemieux, Thomas, Belill, Taylor, Bryan, Cain


Nays: None

CERTIFICATION:

STATE OF MICHIGAN)
) SS:
COUNTY OF GENESEE)

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the Township Board of the Charter Township of Vienna, Genesee County, Michigan, at a regular meeting duly called and held on the 3rd day of March, 2014, the original of which is on file in my office.


Randy Taylor, Supervisor


Cynthia J. Bryan, Clerk

CHARTER TOWNSHIP OF FLUSHING

6524 N. SEYMOUR ROAD
FLUSHING, MICHIGAN 48433
BOARD OF TRUSTEES MINUTES

DATE: JULY 11, 2013

TIME: 7:00 P.M.

PHONE: 810-659-0800

FAX 810-659-4212

WEB PAGE: <http://www.flushingtowship.com>

ADMINISTRATION MEMBERS

SUPERVISOR: Rian R. Birchmeier

CLERK: Julia A. Morford

TREASURER: Maryion T. Lee

TRUSTEES

Shirley D. Gage

Bonnie Jean Martinson

Scott R. Matzke

Scott P. Minaudo

TOWNSHIP ATTORNEY:

STEVEN W. MOULTON PLLC

6258 W. Pierson Road

Flushing MI 48433

810-407-7658

MEETING CALLED TO ORDER at 7:00 p.m. by **SUPERVISOR RIAN R. BIRCHMEIER** with Roll Call and the Pledge of Allegiance to the American Flag.

ROLL CALL: Rian R. Birchmeier, Julia A. Morford, Maryion T. Lee, Shirley D. Gage, Bonnie Jean Martinson, Scott R. Matzke, Scott P. Minaudo, and Attorney Steve Moulton

MEMBERS ABSENT: None

OTHER INDIVIDUALS PRESENT: Twelve (12) interested individuals

ADOPT THE AGENDA: MATZKE MOVED, seconded by Lee to adopt the Agenda as presented.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Matzke, Gage, Lee, Morford, and Birchmeier

NAYS: Minaudo and Martinson

Motion Carried.

APPROVAL OF PREVIOUS MINUTES:

- A. **SPECIAL MEETING MINUTES FROM JUNE 5, 2013: MATZKE MOVED**, seconded by Lee to approve the Special Meeting Minutes of June 5, 2013 as presented.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Matzke, Martinson, Gage, Lee, Morford, and Birchmeier,

NAYS: Minaudo

Motion Carried.

- B. **REGULAR SCHEDULED MEETING MINUTES OF JUNE 13, 2013: LEE MOVED**, seconded by Gage to approve the Minutes of June 13, 2013.

DISCUSSION:

Corrections to be made: grammatically spelling errors regarding the word "ask"; question about the order of the bills rather than the individual bills; page 6, 1-e, Review of the Zoning Permit, "Action of the Motion" **changed to** "Action on the Recommendation"; page 10, Financial Report – shouldn't there be a reason for the postponement referenced in the motion. Attorney Moulton felt the better practice would

be to indicate the motion or in the discussion regarding the motion why someone was seeking to postpone but if the actual action taken was a motion to postpone without any more, that should be what the minutes reflect.

LEE MOVED, seconded by Gage to withdraw the motion.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Minaudo, Matzke, Martinson, Gage, Lee, Morford, and Birchmeier,

NAYS: 0

Motion Carried.

MINAUDO MOVED, seconded by Martinson to approve the June 13, 2013 Minutes to reflect the adjustments from Trustee Martinson.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Martinson, Gage, Morford, Birchmeier, Minaudo, and Matzke

NAYS: Lee

Motion Carried.

APPROVAL OF PAYMENT OF BILLS: LEE MOVED, seconded by Morford to approve the payment of the bills as presented.

DISCUSSION:

The Clerk made reference to Page 1, dated June 18, 2013, Genesee County Treasurer, regarding two (2) entries for the "Final Sheriff Contract" - one entry in the amount of \$20,753.69 was allocated in the previous budget and the other entry \$48,606.05 is for the current budget for a total of both figures to be \$69,359.74.

DISCUSSION:

Trustee Martinson thanked Accountant Karla Carpenter for the work she has done regarding the Bill Statement which has made it so much easier for Trustee Martinson to understand.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Gage, Lee, Morford, Birchmeier, Minaudo, Matzke, and Martinson

NAYS: 0

Motion Carried.

7:15 P.M. - OPEN FOR PUBLIC COMMENTS FOR NON AGENDA ITEMS:

None

7: 16 P.M. - CLOSED FOR PUBLIC COMMENTS FOR NON AGENDA ITEMS

UNFINISHED BUSINESS:

1. Financial Report for May 2013

MARTINSON MOVED, seconded by Matzke to accept the Financial Report for May 2013 as presented.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Martinson, Gage, Lee, Morford, Birchmeier, Minaudo, and Matzke

NAYS: 0

Motion Carried.

2. Approval of Bills for May 2013

LEE MOVED, seconded by Matzke to approve the Bills for May 2013.

DISCUSSION:

The Treasurer stated the pages referred to as "missing pages" have been left out of the report for almost five (5) years. It had been prior practice to not include the pages because they were the totals of different accounts and the only way to get the totals for the entire report was to go through and calculate the random checks that belonged in each account.

In order to avoid the confusion in the future, the Treasurer recommended: 1) having Ms. Carpenter do a work shop where she could explain how the accounts were formatted on the Financial Reports; 2) a Finance Committee could be set up to review the Financial Reports prior to the Board meetings. If there were questions, they could be resolved before the meeting in order to get through the meetings without reviewing the issues. 3) Ms. Carpenter could also come to a Board Meeting and review the Financial Reports where the whole audience could learn the basics.

Trustee Martinson felt it would be nice for Ms. Carpenter to explain the reports, but felt the reports weren't that difficult for the Board members to learn by themselves. The Board will never know what all the numbers stand for so felt the Board should learn as they go along.

The Supervisor stated that each number stood for a different department; a list of the numbers would be available to anyone that wanted a list.

Karla would put a list together for you in response to Trustee Martinson's question. I would like Trustee Martinson to do this time, that wouldn't be necessary.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Matzke, Martinson, Gage, Lee, Morford, Birchmeier, and Minaudo

NAYS: 0

Motion Carried.

NEW BUSINESS:

1-a. Approval of First Quarter Fiscal 2013-2014 Budget

LEE MOVED, seconded by Matzke to approve the First Quarter Fiscal 2013-2014 Budget as presented.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Matzke, Martinson, Gage, Lee, Morford, Birchmeier,

NAYS: Minaudo

Motion Carried.

1-b. Review of Policies

LEE MOVED, seconded by Gage that the Board adopt the "Board Meeting Administration" Policy.

DISCUSSION:

The major changes made by the Policy Committee are listed below in bold print:

1. The township clerk shall prepare the agenda by **noon on the Monday** prior to every township board meeting.
2. Any board member who desires to have an item placed on the agenda will notify the clerk, in writing, by **9:00 a.m. on the Thursday**, a week prior to the meeting.
3. A copy of the proposed agenda shall be delivered or made available to every board member, along with all supporting documentation and correspondence addressed to the township Board by **noon on the Monday three (3) days** prior to the board meeting.

4. Placement of the agenda on a board members desk or in their interoffice mailbox shall be considered as delivered. (See "Mail Box Policy", page 11)

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Birchmeier, Minaudo Matzke, Martinson, Gage, Lee, and Morford,

NAYS: 0

Motion Carried

1-c. Update of Cell Phone for Supervisor

GAGE MOVED, seconded by Lee that the township pay one hundred (100%) percent for a cell phone to be used by the Supervisor for township business.

DISCUSSION:

The Supervisor could have one phone but could have a separate ring for each entry in the phone. The Supervisor stated the phone that he currently carried was his own personal phone.

Trustee Gage stated the motion was for a cell phone for the Supervisor to be used strictly for township business. A motion had been made last month to pay a certain percent on a cell phone for the Supervisor, Police Chief, and Assessor.

The Supervisor is accountable to the County for the Emergency Management plan. It was mentioned that the Police Chief may need a separate cell phone because his job is important because he protects the community.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Lee, Gage, Matzke, Birchmeier, and Morford

NAYS: Martinson and Minaudo

Motion Carried

1-d. Resolution – Genesee County Solid Waste Management Plan Amendment

MORFORD MOVED, seconded by Lee to approve the Genesee County Solid Waste Management Plan Amendment which is Part 115 of Michigan Public Act 451 of 1994 which requires that sixty-seven (67%) of all local units of government approve the plan amendment through a resolution of support prior to submitting the plan to the Michigan Department of Environment Quality for final approval.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Birchmeier, Morford, Lee, Gage, Martinson, Matzke, and Minaudo

NAYS: 0

Motion Carried.

1-e. Resolution – Genesee County Hazard Mitigation Plan Update

MORFORD MOVED, seconded by Gage to support the Resolution for the Adoption of the Genesee County Hazard Mitigation Plan for the Charter Township of Flushing.

DISCUSSION:

The Hazard Mitigation Plan process for Genesee County identifies hazards that may bring harm to a community by taking the necessary action to reduce or eliminate the amount of damage caused by a disaster before it strikes. The Plan is in cooperation with the Office of the Genesee County Sheriff's Emergency Management and Homeland Security Division, the Genesee County Hazard Mitigation Advisory Committee and the Michigan State Police. See the below listed Resolution:

**RESOLUTION
FOR THE ADOPTION OF THE
GENESEE COUNTY HAZARD MITIGATION PLAN
CHARTER TOWNSHIP OF FLUSHING
GENESEE COUNTY, MICHIGAN**

WHEREAS, Flushing Township, Michigan is vulnerable to a wide range of natural, technological and human-related hazards, and has experienced repetitive disasters that have caused loss of life, damaged commercial, residential and public properties, displaced citizens and businesses, closed streets and presented general public health and safety concerns; and

WHEREAS, Genesee County has prepared a Genesee County Hazard Mitigation Plan that provides an understanding of those threats, identifies the hazards affecting the area, discusses the county's vulnerability to the identified hazards, and outlines the community's options and strategies to reduce overall damage and impact from natural and technological hazards; and

WHEREAS, the Genesee County Hazard Mitigation Plan represents the interests and needs of Flushing Township.

NOW THEREFORE BE IT RESOLVED that the Genesee County Hazard Mitigation Plan is hereby adopted as an official plan of the Charter Township of Flushing.

Adopted this 11th day of July, 2013.

CHARTER TOWNSHIP OF FLUSHING
RIAN R. BIRCHMEIER, Supervisor

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Minaudo, Matzke, Martinson, Gage, Lee, Morford, and Birchmeier

NAYS: 0

Motion Carried.

1-f. Park Committee Report

LEE MOVED, seconded by Gage to table Item I, which has twelve (12) sub categories and fully stated on Page 1, for consideration to the next Board Meeting, to consider at this time, which is Item II, which is comprised of three (3) sub categories found at the top of Page 2, and to table Item III the issue being the Budget for consideration at the next Board Meeting. The only thing to be considered tonight at this Board Meeting would be Item II comprised of: 1) Playground, 2) Boardwalk, and 3) Prescribed Burns. (Flushing Township Park and Recreation Committee – July 11, 2013, Committee Report).

DISCUSSION:

Since there is approximately \$19,000 in the Park Budget – are there any ideas as to an approximate cost for the three (3) items. Ms. Griffin has done research on prior Flushing Township prescribed burns and the cost was 75/25% with the Township paying the 25%, but a grant was involved. If the Township proceeded with the prescribed burns, they would have to pay one-hundred (100%) percent. The cost for the burn would depend on the acreage that would be burned; the normal cost range has been between \$500 to \$750 but could go as high as \$2,600; the burns are done in sections ranging from fifteen (15) to twenty-three (23) acres at a time. Weather conditions also would determine when the prescribed burns would be done.

The playground is a safety hazard and has to be taken care of immediately. Specific guidelines have to be followed for the playground.

The boardwalk would not have to be replaced but would need minimal structural items such as new footings, replacement of boards, etc. The workers have to be certified to work in wetland areas.

At some time, the budget will have to be reviewed to cover expenses. There is money in the budget to hire an employee, so perhaps the funds could be transferred to cover the expenses.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Martinson, Gage, Lee, Morford, Birchmeier, Minaudo, and Matzke

NAYS: 0

Motion Carried.

1-g. 8:20 P.M. – CLOSED SESSION:

1. Litigation of Police Officer's Health Insurance

- 1) **MINAUDO MOVED**, seconded by Lee to meet in Closed Session pursuant to MCL 15.261(f) to review a written opinion from the Attorney regarding the retired police officer's insurance situation;

AND

2. Status of Teamsters Contract

- 2) To meet in Closed Session pursuant to MCL 15.261(z) to discuss a matter that is subject to collective bargaining specifically the Teamsters Contract.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Gage, Lee, Morford, Birchmeier, Minaudo, Matzke, and Martinson

NAYS: 0

Motion Carried.

9:00 P.M. – RE-CONVENE TO REGULAR SESSION

MINAUDO MOVED, seconded by Matzke to re-convene to Regular Session.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Martinson, Gage, Lee, Morford, Birchmeier, Minaudo, and Matzke

NAYS: 0

Motion Carried.

COMMITTEE REPORTS:

1. Fire Runs for June: Flushing Fire Chief Jim Michael reported there were three (3) assist police calls, two (2) vehicle fires, two (2) open burns, one (1) grass fire, one (1) PI accident, one (1) wash down at PD accident, one (1) power line down, one (1) natural gas leak for a total of twelve (12) runs. There was \$5,000 in property loss and \$500 in contents loss.

FINANCIAL REPORT:

LEE MOVED, seconded by Morford to accept the Financial Report for April 2013.

ACTION OF THE MOTION

ROLL CALL VOTE:

AYES: Matzke, Martinson, Gage, Lee, Morford, Birchmeier and Minaudo

NAYS: 0

Motion Carried

BOARD COMMENTS:

1. **LEE**: thanked the Park Committee for all the work they have been doing; thanked Joe who has done a great job at the Park; thanks to the audience for their patience; if anyone has any questions, please don't hesitate to call her.

2. **MINAUDO:** thanks for coming to the meeting.
3. **MATZKE:** thanks for coming out to the meeting.
4. **MARTINSON:** the next time bring your friends, neighbors, and enemies to the meeting.

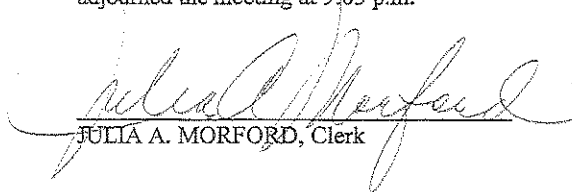
9:00 P.M. OPEN FOR PUBLIC COMMENTS

Two (2) individuals gave comments.

9:02 P.M. - CLOSED FOR PUBLIC COMMENTS

THE NEXT REGULAR SCHEDULED BOARD OF TRUSTEES MEETING WILL BE THURSDAY, AUGUST 8, 2013 AT 7:00 P.M. AT THE FLUSHING TOWNSHIP HALL.

ADJOURNMENT: Due to lack of business issues, **SUPERVISOR BIRCHMEIER** adjourned the meeting at 9:03 p.m.



JULIA A. MORFORD, Clerk

RIAN R. BIRCHMEIER, Supervisor

APPROVED DATE: 8/8/2013
=07/11/2013 Regular Min

111

**RESOLUTION NO. 14-03
GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN
ATLAS TOWNSHIP**

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of Trustees of Atlas Township, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

YEAS:

NAYS:

ABSENT:

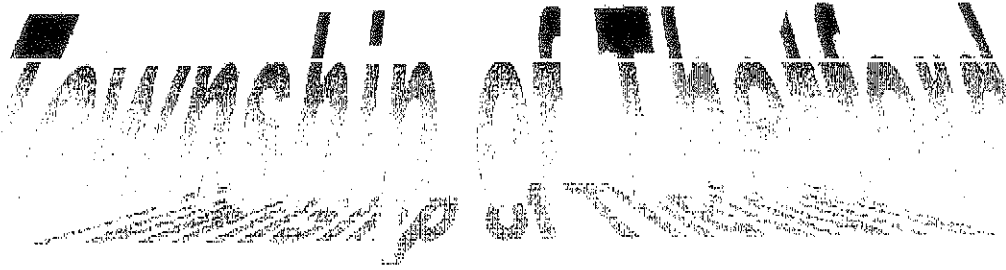
RESOLUTION DECLARED ADOPTED

I, Teresa L. Onica, CMC, the duly elected and acting Clerk of Atlas Township, hereby certify that the foregoing resolution was adopted by the township board of Atlas Township at a regular meeting of said board held on Tuesday, February 18, 2014, at which a quorum was present by a roll call vote of said members as hereinbefore set forth; that said resolution was ordered to take immediate effect.

Teresa L. Onica

Teresa L. Onica, CMC
Atlas Township Clerk

Attachment: NEW #2-FFB 2014 (1188) : RESOLUTION NO. 14-03 ADOPTION OF GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN
Attachment: RESOLUTION NO. 14-03 SOLID WASTE PLAN (1256) : RESOLUTION NO. 14-03 GENESEE COUNTY SOLID WASTE MANAGEMENT



4014 East Vienna Road
Clio, MI 48420

To: Shane Kelley From: Julie Paulson
Fax: (810) 686-9394 Pages: 2-including cover
Phone: (810) 686-5200 Date: 2-5-2014
Re: _____ CC: _____

Urgent For Review Please Comment Please Reply Please Recycle

Tipton Township Resolution of support for the
Genesee County Solid Waste Management Plan Amendment

910 257-3185

RECEIVED
GENESEE COUNTY

FEB 05 2014

METROPOLITAN
PLANNING COMMISSION

RESOLUTION

A RESOLUTION BY THE BOARD OF TRUSTEES OF THETFORD TOWNSHIP APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of Thetford Township, of the County of Genesee, Michigan, that the proposed amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 13th day of October, 2013 by the Board of Trustees of Thetford Township, Michigan.

Signed:

Julie C. Paulson

Title:

Chair

APPROVED

Township's fiscal year ending March 31, 2013 to the Board of Trustees and the general public in attendance.

2): GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN ^{Date: 10-28-13}
AMENDMENT: MOTION by Trustee Cousineau, supported by Trustee Congdon to approve the amendment to the Genesee County Solid Waste Management Plan. Vote: All yeas. Motion Passed.

B. NEW BUSINESS:

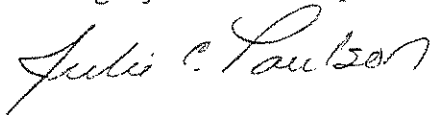
1): PLANNING COMMISSION BOARD ALTERNATE APPOINTMENT:
MOTION by Treasurer Ayotte, supported by Trustee Cousineau to appoint Terry Reidel as the Alternate to the Planning Commission. Vote: All yeas. Motion Passed.

2): LIBRARY BOARD APPOINTMENT: MOTION by Treasurer Ayotte, supported by Trustee Stevens to appoint Marie Christianson to the Library Board. Vote: All yeas. Motion Passed.

BRIEF PUBLIC COMMENTS: Public comments began at 7:46 p.m. No comments were received from the public. Ended at 7:46 p.m.

BOARD MEMBER COMMENTS: Various comments were given by the board members.

Meeting adjourned at 7:48 p.m.



Julie Paulson, Clerk

**CITY OF SWARTZ CREEK
CITY COUNCIL
CERTIFIED RESOLUTION #140210-09
(Carried)**

Solid Waste Plan

Resolution No. 140210-09

(Carried)

Motion by Mayor Pro-Tem Abrams
Second by Councilmember Hurt

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, the City of Swartz Creek, of the County of Genesee, Michigan, find the proposed Amendment to the Genesee County Solid Waste Management Plan to be an acceptable Amendment to the current Plan, and hereby approve said amendment.

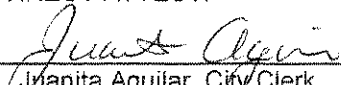
Discussion Ensued.

YES: Hicks, Hurt, Krueger, Porath, Shumaker, Abrams, Gilbert.

NO: None. Motion Declared Carried.

I, Juanita Aguilar, City Clerk in and for the City of Swartz Creek, hereby certify the above resolution was adopted by the Swartz Creek City Council at its regular meeting held Monday, February 10, 2014.

CORRECT ATTEST:



Juanita Aguilar, City Clerk
City of Swartz Creek, Michigan

(Seal)

RESOLUTION-13-13

A RESOLUTION BY THE TRUSTEES OF RICHFIELD TOWNSHIP APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and the Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of the RICHFIELD TOWNSHIP of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 8th day of October, 2013 by the TRUSTEES of RICHFIELD TOWNSHIP, Michigan.

Signed: 

Teri Webber

Title: Richfield Township Clerk

RESOLUTION R-13-07
GENESEE COUNTY SOLID WASTE MANAGEMENT
PLAN AMENDMENT

A RESOLUTION BY THE CHARTER TOWNSHIP OF MUNDY BOARD OF TRUSTEES APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLD WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451 as amended Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, the proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

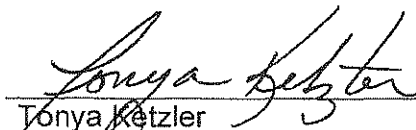
WHEREAS, The members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by the Charter Township of Mundy Board of Trustees, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 23 day of September 2013 by the Charter Township of Mundy Board of Trustees, Michigan.

Ayes: J.O. / D.G. / T.K. / B.M. / D. O. / B.H.
Nays: None
Absent: None
Abstain: None

Signed



Tonya Ketzler
Clerk

CITY OF MT. MORRIS

RESOLUTION 13-42

WHEREAS: The plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS: The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

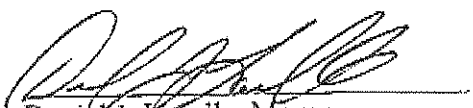
WHEREAS: The members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

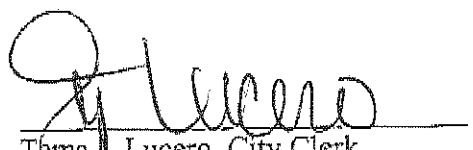
NOW, THEREFORE, BE IT RESOLVED:

By this Council of the City of Mt. Morris, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

Moved by Council member Middleton, seconded by Council member Heidenfeldt and thereafter adopted by the City Council of the City of Mt. Morris at a regular meeting held Monday, October 28, 2013 at 6:30 p.m.

_____7_____ Yea _____0_____ Nay _____0_____ Absent


Daniel J. Lavelle, Mayor


Tema J. Lucero, City Clerk

RESOLUTION

NUMBER 2013-21

A RESOLUTION BY THE TRUSTEE BOARD OF THE MT. MORRIS CHARTER TOWNSHIP APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

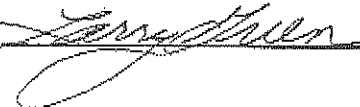
WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of the Mt. Morris Charter Township, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 8th day of July, 2013 by the Trustee Board of Mt. Morris Charter Township.

Signed:  Title: Mt. Morris Charter Township Supervisor

Signed:  Title: Mt. Morris Charter Township Clerk

srt/7.1.13

**RECEIVED
GENESEE COUNTY
JUL 09 2013
METROPOLITAN
PLANNING COMMISSION**

RESOLUTION 13-12

A RESOLUTION BY THE MONTROSE TOWNSHIP BOARD APPROVING THE AMENDMENT TO THE
GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of the Charter Township of Montrose, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 17th day of September, 2013 by the Montrose Township Board of the Township of Montrose, County of Genesee, Michigan.

AYES: 7

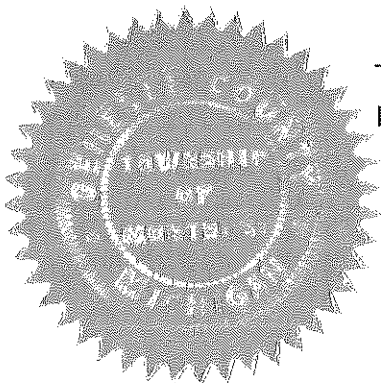
NAYS: 0

ABSENT: 0

RESOLUTION DECLARED ADOPTED:

CERTIFICATION

The above Resolution was duly adopted by the Montrose Township Board at a regular meeting of the Board held on the 17th day of September, 2013 at 7:00 pm at the Montrose Township Hall, Genesee County, Michigan.



Fred Domine

Fred Domine, Montrose Township Clerk

CITY OF LINDEN
RESOLUTION NO. 996

A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF LINDEN APPROVING THE
AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Council of the City of Linden, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 22nd day of July, 2013 by the City Council of the City of Linden, Michigan.



David E. Lossing
Mayor

Attest:



Lynn M. Henry
City Clerk

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GENESEE COUNTY

SEP 12 2013

METROPOLITAN
PLANNING COMMISSION

**GAINES TOWNSHIP
RESOLUTION SOLID WASTE MANAGEMENT PLAN
RESOLUTION 2014-06**

March 5, 2014

A RESOLUTION BY THE BOARD OF TRUSTEES OF GAINES TOWNSHIP APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115.Solid Waste Management, and its Administrative Rules by Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED by this Board of the Trustees of Gaines Township of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 5th day of March 2014 by the Board of Trustees of Gaines Township, Michigan.

Motion by: Chuck Timmons

Second by: Lee Purdy


Voting for: Michael Dowler, Diane Hyrman, Lee Purdy, Chuck Timmons, Chuck Melki

Voting against: None

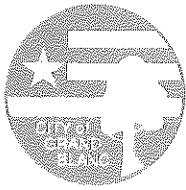
The resolution is declared: Adopted



Chuck Melki, Supervisor



Michael Dowler, Clerk



City of Grand Blanc

203 E. Grand Blanc Rd.
Grand Blanc, MI 48439

www.cityofgrandblanc.com

810-694-1118
Fax 810-694-9517

MAYOR
Susan J. Soderstrom

CITY COUNCIL
James E. Bappert
John A. Freel
Michael R. Wolfgram
Lonnie E. Adkins
Matthew D. Telliga
Bryan Bender

CITY MANAGER
Paul J. Brake

**CITY CLERK-
TREASURER**
Bethany J. Smith

**FINANCE DIRECTOR-
ASST. CITY MGR.**
Wendy L. Jean-Buhrer

CITY ASSESSOR
Cathy E. Groce

CITY ATTORNEY
Walter P. Griffin

RESOLUTION 0613-3

A RESOLUTION BY THE GRAND BLANC CITY COUNCIL OF THE CITY OF GRAND BLANC APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

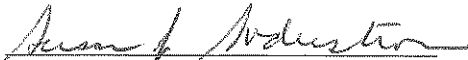
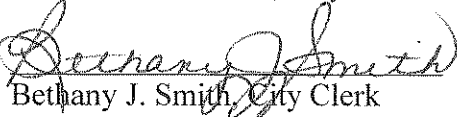
WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of the City of Grand Blanc, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this Twelfth day of June, 2013 by the Grand Blanc City Council of the City of Grand Blanc, Michigan.

Signed


Susan J. Soderstrom, Mayor

Bethany J. Smith, City Clerk

**RECEIVED
GENESEE COUNTY**

JUN 19 2013

**METROPOLITAN
PLANNING COMMISSION**

VILLAGE OF GOODRICH
RESOLUTION 2013-22

A RESOLUTION BY THE COUNCIL OF THE VILLAGE OF GOODRICH APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

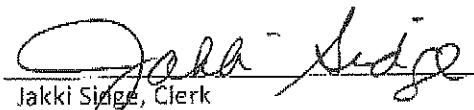
WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this COUNCIL of the VILLAGE OF GOODRICH, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 14TH day of OCTOBER, 2013 by the Council of the VILLAGE OF GOODRICH, Michigan.

I, Jakki Sidge, the duly elected Clerk of the Village of Goodrich, do hereby CERTIFY that the foregoing is a true and accurate copy of Resolution 2013-22 that was adopted by the Village of Goodrich Council, Genesee County, Michigan at a regular meeting held OCTOBER 14, 2013 the original of which is on file in the Village office and available to the public.



Jakki Sidge, Clerk
Village of Goodrich

Resolution Number: 2013-22
Presented: 10/14/2013
Date Adopted: 10/14/2013



GENESEE TOWNSHIP RESOLUTION 13-12

At a regular meeting of the Genesee Township Board called to order by Mr. Fuhr on June 11, 2013 at 6:05 P.M. the following resolution was offered:

To approve the Genesee County Solid Waste Management Plan.

Offered by Witte and supported by Jean. That the request be considered for approval.

<u>6</u>	Yeas
<u>0</u>	Nay
<u>1</u>	Absent

It is the consensus of this legislative body to approve the Genesee County Solid Waste Management Plan.

I hereby certify that the foregoing is a true copy of a resolution adopted by the Genesee Township Board of the Township of Genesec at a regular meeting held on the 11th day of June A.D. 2013.

Wayne G. Bates

 Wayne G. Bates, Clerk

6-11-13

 Date

VILLAGE OF GAINES**RESOLUTION #2013-08**

A RESOLUTION BY THE VILLAGE OF GAINES COUNCIL OF THE VILLAGE OF GAINES APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

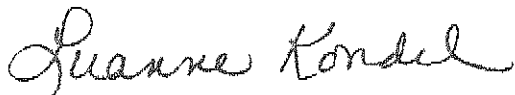
WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

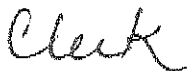
NOW, THEREFORE, BE IT RESOLVED, by this Board of the VILLAGE OF GAINES, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 10 day of JULY, 2013 by the VILLAGE OF GAINES Council of the VILLAGE OF GAINES, Michigan.

Signed:



Title:

**RECEIVED
GENESEE COUNTY**

JUL 22 2013

**METROPOLITAN
PLANNING COMMISSION**

RESOLUTION NO. 02/2013

A RESOLUTION BY THE **Board of Trustees OF Forest Township** APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of **Forest Township**, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this **10** day of **October, 2013** by **Board of Trustees of Forest Township**, Michigan.

Signed: *Beatrix Banyas*

Title: *Clerk - Forest Township -*

Charter Township of Flint

1490 S. Dye Road
Flint, Michigan 48532

Phone: (810) 732-1350
Fax: (810) 732-0866
www.flinttownship.org

CLERK
Kim Courts

SUPERVISOR
Karyn Miller

TREASURER
Marsha Binelli

TRUSTEES
George Menoutes Belenda Parker
Barb Vert Franklin Kaste

July 2, 2013

Genesee County Metropolitan Planning Commission
Atten: Kelly Richardson, Associate Planner
Room 223
1101 Beach Street
Flint, Michigan 48502-1470

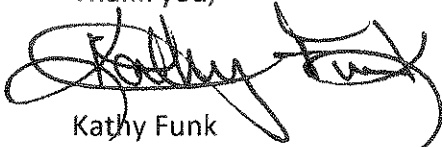
RE: GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN AMENDMENT APPROVAL

Dear Ms. Richardson:

Enclosed please find the approved Charter Township of Flint Board of Trustees minutes that include the resolution for approval of the Genesee County Solid Waste Management Amendment. It is listed as Action Item J within the minutes.

If you have any questions, please do not hesitate to contact me at (810) 600-3214.

Thank you,



Kathy Funk
Administrative Assistant

**RECEIVED
GENESEE COUNTY**

JUL 08 2013

**METROPOLITAN
PLANNING COMMISSION**

Charter Township of Flint

1490 S. Dye Road
Flint, Michigan 48532

Phone: (810) 732-1350
Fax: (810) 732-0866
www.flinttownship.org

CLERK
Kim Courts

SUPERVISOR
Karyn Miller

TREASURER
Marsha Binelli

TRUSTEES
George Menoutes Belenda Parker
Barb Vert Franklin Kasle

REGULAR MEETING CHARTER TOWNSHIP OF FLINT BOARD OF TRUSTEES MONDAY, JUNE 17, 2013 AT 7:00 P.M.

MEMBERS PRESENT: K. Miller, K. Courts, M. Binelli, B. Parker, B. Vert, F. Kasle, G. Menoutes

MEMBERS ABSENT:

STAFF PRESENT: J. Ringwelski, G. Sippert, K. Funk, T. Tucker

STAFF ABSENT:

The meeting was called to order at 7:00 p.m.

PLEDGE OF ALLEGIANCE

ADDITIONS/DELETIONS TO THE AGENDA: Action Item I – Consider Approval of Replacement of Three (3) Thermal Imaging Cameras – was deleted from the agenda.

APPROVAL/CORRECTION OF MINUTES: REGULAR MTG: 06/03/2013
The Board unanimously approved the minutes of the regular board meeting of JUNE 3, 2013.

REPORTS:

- ❖ Supervisor Miller said the annual meeting of the Economic Development Corporation will be held Wednesday, June 19 at 5 p.m. The public is invited to attend.
- ❖ Supervisor Miller reported that resurfacing of Bristol Road from Van Slyke Road to Fenton Road had begun. The expected completion date is August 30, 2013.
- ❖ Supervisor Miller cited an article in *The View* newspaper that had the headline "Township Finances to Get Worse Before They are Better." Supervisor Miller said township revenues are going down, but the Board of Trustees is being fiscally responsible in light of the decreasing revenues.
- ❖ Supervisor Miller held a moment of silence for Gregg Nordman who passed away June 16, 2013. Mr. Nordman retired as Flint Township Assistant Fire Chief in 1992.
- ❖ **Motioned by M. Binelli, second by G. Menoutes to pay the bills.**
Roll Call Vote:
B. Parker – no
M. Binelli – yes
K. Miller – yes
K. Courts – yes
F. Kasle – no
G. Menoutes – no
B. Vert – no
Motion Denied

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- ❖ Discussion followed regarding paying of the bills.
- ❖ **Motioned by G. Menoutes, second by M. Binelli to reconsider paying the bills.**
M. Binelli – yes
K. Miller – yes
K. Courts – yes
F. Kasie – yes
G. Menoutes – yes
B. Vert – no
B. Parker – no
Motion Carried
- ❖ Trustee Menoutes discussed the issue of tax exempt properties, specifically McLaren Hospital's buildings on Beecher Road. Supervisor Miller asked that Trustee Menoutes discuss the matter with Township Attorney Peter Goodstein.
- ❖ Chief Sippert reported on a drunk/impaired driving training that Officers Michael Nemecheck and Nicholas Sabo attended. The instruction included extensive training on the state level. Both passed and went for further instruction in Maricopa County, Arizona, culminating in a four-hour written exam. Officers Nemecheck and Sabo are now two of only 50 Drug Recognition Experts in the state of Michigan.
- ❖ Economic Enhancement Director Tucker reported that the McLaren Hospitality House was nearing completion.
- ❖ Trustee Kasie questioned the repair of the parking lot at the Carman-Ainsworth Senior Citizen Center. Supervisor Miller stated that estimates were above \$10,000 and specs were being prepared to seek sealed bids on the project.

PUBLIC COMMENTS:

1. Robert Robinson
 4360 Wheatland Drive
 Lack of flag at Fire Station #1/Hot water heater replacement permit
2. Jim McClung
 1396 Graham Road
 Grass mowing of vacant property
3. Chuck Hughes
 3334 Herrick Street
 Jake's Fireworks agenda items/Need to distance Flint Township from City of Flint with name change

ACTION ITEMS:

NEW BUSINESS

- A) CONSIDER APPLICATION FOR TENT SALE OF FIREWORKS AT 3192 S. LINDEN ROAD – JAKE'S FIREWORKS**
 Motioned by K. Courts, second by K. Miller to approve a tent sale of fireworks at 3192 S. Linden Road by Jake's Fireworks from June 20 to July 5, 2013, contingent upon receipt of state certification.
Roll Call Vote:
K. Miller – no
K. Courts – yes
F. Kasie – no
G. Menoutes – no
B. Vert – no
B. Parker – no
M. Binelli – no

Motion Denied

B) CONSIDER APPLICATION FOR TENT SALE OF FIREWORKS AT 3282 MILLER ROAD – JAKE'S FIREWORKS

Motioned by K. Courts, second by K. Miller to approve a tent sale of fireworks at 3282 Miller Road by Jake's Fireworks from June 20 to July 5, 2013, contingent upon receipt of state certification.

Roll Call Vote:

K. Courts – yes

F. Kastle – no

G. Menoutes – no

B. Vert – no

B. Parker – no

M. Binelli – no

K. Miller – no

Motion Denied

C) CONSIDER APPLICATION FOR SPECIAL EVENT – OUR LADY OF LEBANON MID-EAST FESTIVAL

Motioned by K. Courts, second by G. Menoutes to approve Our Lady of Lebanon Mid-East Festival special event Friday, July 12 through Sunday, July 14, 2013.

Roll Call Vote: Motion Carried Unanimously

D) CONSIDER APPROVAL FOR POLICE ESCORTED RIDE – BIKES ON THE BRICKS

Motioned by K. Courts, second by B. Parker to approve Bikes on the Bricks event beginning at 11 a.m. on Saturday, September 14, 2013, contingent upon notification of businesses/residences in the neighborhood north of Austin Parkway, including: Hogarth Avenue; Utey Road; Graham Road; and, Court Street.

Roll Call Vote: Motion Carried Unanimously

E) CONSIDER APPROVAL OF SPECIAL EVENT – UAW SOBERFEST

Motioned by K. Courts, second by F. Kastle to approve the UAW Soberfest special event scheduled for Sunday, July 21, 2013, from 8 a.m. to 5 p.m.

Roll Call Vote: Motion Carried Unanimously

F) CONSIDER ACQUISITION OF TAX REVERTED PROPERTIES FROM GENESEE COUNTY

Motioned by K. Courts, second by M. Binelli to return the acquisition of tax reverted properties to Genesee County.

Roll Call Vote: Motion Carried Unanimously

G) CONSIDER ADOPTION OF THE MICHIGAN TOWNSHIPS ASSOCIATION (MTA) PRINCIPLES OF GOVERNANCE

Motioned by K. Miller, second by K. Courts to adopt the Michigan Townships Association (MTA) Rules of Governance and display the same in the Flint Township Lavelle Auditorium.

Roll Call Vote: Motion Carried Unanimously

**Charter Township of Flint
Principles of Governance**

To maintain the highest standards and traditions of Michigan townships, we embrace these principles to guide our stewardship, deliberations and constituent services as we commit to safeguard our community's health, safety and general welfare.

We pledge to:

- Insist on the highest standards of ethical conduct by all who act on behalf of this township
- Bring credit, honor and dignity to our public offices through collegial board deliberations, and diligent, appropriate responses to constituent concerns

- Actively pursue education and knowledge, and embrace best practices
- Treat all persons with dignity, respect and impartiality, without prejudice or discrimination
- Practice openness and transparency in our decisions and actions
- Cooperate in all reasonable ways with other governmental entities and consider the impact our decisions may have outside our township's borders
- Communicate to the public township issues, challenges and successes, and welcome the active involvement of stakeholders to further the township's well-being
- Strive for compliance with all state and federal statutory requirements
- Refuse to participate in any decisions or activities for personal gain, at the expense of the best interests of the township
- Further the understanding of the obligations and responsibilities of American citizenship, democratic government and freedom

These principles we pledge to our township, our state, and our country.

H) FIRST READING OF ORDINANCE REGULATING THE USE OF CONSUMER FIREWORKS IN THE CHARTER TOWNSHIP OF FLINT

CHARTER TOWNSHIP OF FLINT

ORDINANCE NO.

AN ORDINANCE TO AMEND CHAPTER 11, ARTICLE 2 OF THE CHARTER TOWNSHIP OF FLINT CODE OF ORDINANCES, A CHAPTER ENTITLED "FIRE PREVENTION AND PROTECTION," BY REPEALING SECTIONS 11.2-1 THROUGH 11.2-4 AND BY ADDING SECTIONS 11.2-5, 11.2-6 and 11.2-7, BEING SECTIONS WHICH REGULATE THE USE OF CONSUMER FIREWORKS IN THE TOWNSHIP AND PROVIDE A PENALTY FOR VIOLATING THAT REGULATION.

THE CHARTER TOWNSHIP OF FLINT ORDAINS:

SECTION 1.

Chapter 11, Article 2 of the Charter Township of Flint Code of Ordinances is hereby amended to read as follows:

Sec. 11.2-5 Definitions

"Consumer fireworks" means fireworks devices that are designed to produce visible effects by combustion, that are required to comply with the construction, chemical composition, and labeling regulations promulgated by the United States consumer product safety commission under 16 CFR parts 1500 and 1507, and that are listed in APA standard 87-1, 3.1.2, 3.1.3, or 3.5. Consumer fireworks does not include low-impact fireworks

"Firework" or "fireworks" means any composition or device, except for a starting pistol, a flare gun, or a flare, designed for the purpose of producing a visible or audible effect by combustion, deflagration, or detonation. Fireworks consist of consumer fireworks, low-impact fireworks, articles pyrotechnic, display fireworks, and special effects.

"Person" means an individual, agent, association, charitable organization, company, limited liability company, corporation, labor organization, legal representative, partnership, unincorporated organization, or any other legal or commercial entity.

Sec.11.2-6 Prohibition

No person shall use consumer fireworks in the Charter Township of Flint other than on the day preceding, the day of, or the day after a national holiday.

Sec. 11.2-7 Penalty

A person who violates this article shall be guilty of a municipal civil infraction.

SECTION 2

Sections 11.2-1 through 11.2-4 are repealed.

SECTION 3

This Ordinance shall become effective upon the date the date of its publication following final passage.

J) CONSIDER APPROVAL OF THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN AMENDMENT

Motioned by K. Miller, second by K. Courts to approve the amendment as to how solid waste will be managed within Genesee County for the next 10 years or more.

Roll Call Vote: Motion Carried Unanimously

K) CONSIDER APPROVAL FOR LICENSE TO PEDDLE DOOR-TO-DOOR – JENNIFER TERWILLIGER/SOUTHWESTERN ADVANTAGE, INC.

Motioned by K. Courts, second by F. Kasle at approve a license to peddle door-to-door to Jennifer Terwilliger of Southwestern Advantage, Inc., Monday through Saturday from 9 a.m. to 7 p.m. until August 31, 2013.

Roll Call Vote:

G. Menoutes – no

B. Vert – no

B. Parker – yes

M. Binelli – no

K. Miller – yes

K. Courts – yes

F. Kasle – yes

Motion Carried

The meeting was adjourned at 8:05 p.m.



Kim Courts, CMC, Clerk



Karyn Miller, Supervisor

Recorded By Kathy Funk

CITY OF FENTON
RESOLUTION NO. 13-09

A RESOLUTION BY THE FENTON CITY COUNCIL OF THE CITY OF FENTON APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

At a regular meeting of the Fenton City Council, held at 301 S. Leroy Street, Fenton, Michigan 48430, on the 8th day of July 2013, at 7:30 p.m.

PRESENT: Bland, Grossmeyer, Jacob, King, Lockwood, Osborn, Smith

ABSENT: None

The following resolution was offered by Bland and supported by King.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

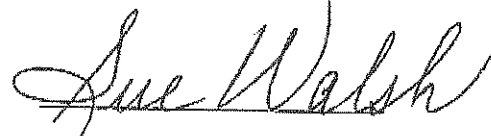
NOW, THEREFORE, BE IT RESOLVED, by this Board of the City of Fenton, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

Yeas: Lockwood, Osborn, Smith, Bland, Grossmeyer, Jacob, King

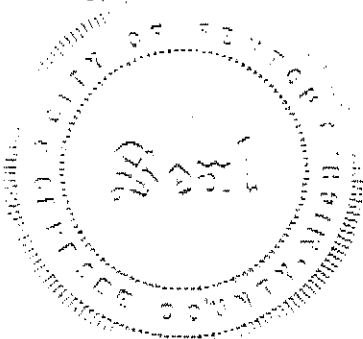
Nays: None

RESOLUTION DECLARED ADOPTED.

I, Sue Walsh, City Deputy Clerk of the City of Fenton, hereby certify this to be a true and complete copy of Resolution No. 13-09, duly adopted at a regular meeting of the City Council held on the 8th day of July, 2013.



Sue Walsh, City Deputy Clerk



RESOLUTION

A RESOLUTION BY THE DAVISON TOWNSHIP BOARD OF TRUSTEES OF THE TOWNSHIP OF DAVISON APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

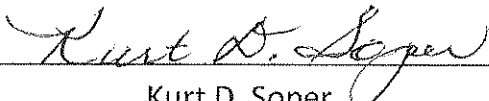
WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

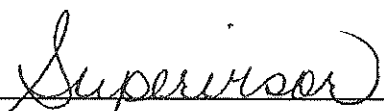
WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

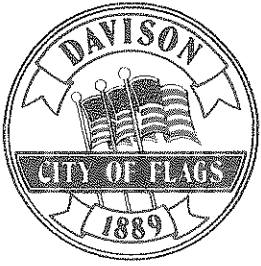
NOW, THEREFORE, BE IT RESOLVED, by this Board of the Township of Davison, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 12th day of August, 2013 by the Davison Township Board of Trustees of the Township of Davison, Michigan.

Signed: 
Kurt D. Soper

Title: 
Davison Township Supervisor

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SEP 13 2013
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City of Davison

200 E. FLINT STREET, SUITE 2
DAVISON, MICHIGAN 48423-1246

TELEPHONE (810) 653-2191
FAX (810) 653-9621

September 25, 2013

Mr. Jason Nordberg
Genesee County Metropolitan Planning Commission
1101 Beach Street, Room 223
Flint, MI 48502

Dear Mr. Nordberg:

Please find the attached original Resolution from the Davison City Council approving Amendment to the Genesee County Solid Waste Management Plan.

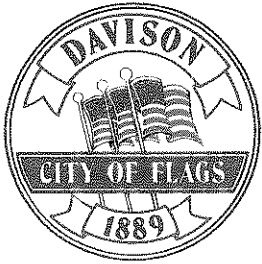
If you have any questions, please contact me at 653-2191.

Sincerely,

Elizabeth J. Holm
Deputy City Clerk

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SEP 26 2013
METROPOLITAN
PLANNING COMMISSION

JN



City of Davison

200 E. FLINT STREET, SUITE 2
DAVISON, MICHIGAN 48423-1246

TELEPHONE (810) 653-2191
FAX (810) 653-9621

RESOLUTION 2013-24

A RESOLUTION BY THE CITY COUNCIL OF THE CITY OF DAVISON APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of the *City of Davison* of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 23rd day of September, 2013 by the City Council of the City of Davison, Michigan.

Andrea L. Schroeder, City Clerk

CLAYTON TOWNSHIP
GENESEE COUNTY, MICHIGAN

RESOLUTION NO. 13-1010-12

A RESOLUTION APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE
MANAGEMENT PLAN

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, the proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan Amendment and have determined that the proposed Plan Amendment is acceptable; and

NOW THEREFORE BE IT RESOLVED, by the Board of the Charter Township of Clayton, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is, hereby, approved.

YES 6

NO 0

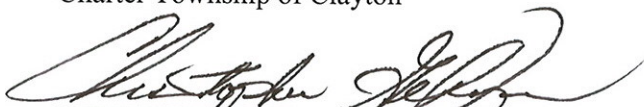
ABSENT 1

THE RESOLUTION IS DECLARED ADOPTED X NOT ADOPTED _____

I certify that the foregoing is a true and accurate copy of a Resolution adopted by the Charter Township of Clayton Board of Trustees, Genesee County, Michigan, at its regular meeting held on October 10, 2013 at the Charter Township of Clayton Hall, 2011 S. Morrish Rd., Swartz Creek, Michigan 48473.


Dennis Milem, Clerk
Charter Township of Clayton

10.10.13
Date:


Christopher Gehringer, Supervisor
Charter Township of Clayton

10.10.13
Date:

RESOLUTION 2014-1

A RESOLUTION BY THE ARGENTINE TOWNSHIP BOARD OF THE TOWNSHIP OF ARGENTINE APPROVING THE AMENDMENT TO THE GENESEE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, the plan was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451m as amended, part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission; and

WHEREAS, The proposed amendment to the Genesee County Solid Waste Management Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners; and

WHEREAS, the members of the Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan amendment is acceptable; and

NOW, THEREFORE, BE IT RESOLVED, by this Board of the Township of Argentine, of the County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable Amendment to the current Plan, and is hereby approved.

PASSED AND APPROVED this 24th day of February, 2014 by the Argentine Township Board of the Township of Argentine, Michigan.

Signed: _____

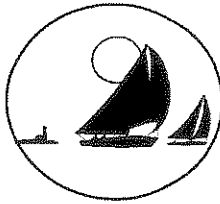
Robert W. Cole, Jr

Title: Township Supervisor

CHARTER TOWNSHIP OF FENTON

**12060 Mantawauka Drive
Fenton, MI 48430-8817**

*Bonnie K. Mathis, Supervisor
Robert E. Krug, Clerk
John R. Tucker, Treasurer
Mark A. Goupil, Trustee*



Phone: (810)629-1537

Fax: (810) 629-9736

Website: www.fentontownship.org

E-mail: info@fentontownship.org

*Robert C. Kesler, Trustee
Vince L. Lorraine, Trustee
Shaun P. Shumaker, Trustee*

August 22, 2013

Genesee County Metropolitan Planning Commission
1101 Beach Street, Room 223
Flint, MI 48502-1470

To Whom It May Concern:

Enclosed is a certified copy of Fenton Township Resolution No. 2013-13, approving the amendment to the Genesee County Solid Waste Management Plan. Please let me know if any additional information is needed. Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas Broecker", written in a cursive style.

Thomas Broecker
Operations Manager/Deputy Clerk

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SEP 03 2013

**METROPOLITAN
PLANNING COMMISSION**

CHARTER TOWNSHIP OF FENTON
RESOLUTION NO. 2013-13

***A resolution by the Township Board of the Charter Township of Fenton approving
an amendment to the Genesee County Solid Waste Management Plan***

WHEREAS, the Genesee County Solid Waste Management Plan ("Plan") was prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules by the Solid Waste Management Committee and the staff of the Genesee County Metropolitan Planning Commission, and

WHEREAS, the proposed amendment to the Plan has been approved by the Solid Waste Management Committee and the Genesee County Board of Commissioners, and

WHEREAS, the members of the Fenton Township Board have had an opportunity to review the Plan amendment and have determined that the proposed Plan Amendment is acceptable;

NOW, THEREFORE, BE IT RESOLVED, by the Township Board of the Charter Township of Fenton, County of Genesee, Michigan, that the proposed Amendment to the Genesee County Solid Waste Management Plan is an acceptable amendment to the current Plan, and is hereby approved.

Motion to adopt Resolution No. 2013-13 as presented.

Motion by: Krug

Seconded: Tucker

Ayes: Mathis, Krug, Tucker, Goupil, Lorraine, Shumaker

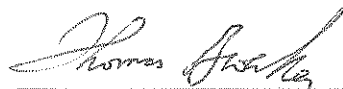
Nays: None

Absent: Kesler

Motion carried. Resolution declared adopted.

STATE OF MICHIGAN)
) SS:
COUNTY OF GENESEE)

I HEREBY CERTIFY that the foregoing is a true and complete copy of a resolution adopted by the Township Board of the Charter Township of Fenton, County of Genesee, State of Michigan, at a regular meeting held on August 19, 2013, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting were kept and will be or have been made available as required by said Act.



Thomas Broecker, Deputy Clerk

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SEP 03 2013

METROPOLITAN
PLANNING COMMISSION



Listed Capacity

Documentation from landfills that the County has access to their listed capacity

Richfield Landfill
11145 East Mt. Morris Road
Davison, Michigan 48423

August 7, 2012

Ms. Ann Marie Kerby, Associate Planner
Genesee County Metropolitan Planning Commission
Room 223, 1101 Beach Street
Flint, Michigan 48502-1470

RE: Waste Acceptance and Facility Operation

Ms. Kerby:

This letter is written as a follow-up to Genesee County Metropolitan Planning Commission's July 25, 2012 request for verification that Genesee County will continue to have access to Richfield Landfill's solid waste disposal capacity.

Richfield Landfill is a licensed Municipal Solid Waste Landfill located at 11145 East Mt. Morris Road, Davison, Michigan 48423 in Richfield Township. The 300 acres identified in the County Plan sited for use as landfill space will insure operation for ten or more years. Of course, it remains our intent to continue to accept waste from Genesee County.

Should you have any subsequent questions or if we can be of further assistance, please do not hesitate to contact me at 810-577-1782.

Sincerely,
RICHFIELD LANDFILL, INC.



V. Wesley Sherman, P.E., Chief Engineer

cc: RLF File



VENICE PARK RDF

9536 Lennon Road
Lennon, MI 48449
(810) 621-9080
(810) 621-3156 Fax

August 7, 2012

Ms. Ann Marie Kerby
Associate Planner
Genesee County Metropolitan Planning Commission
1101 Beach Street, Room 223
Flint, MI 48502

Subject: **Venice Park Recycling and Disposal Facility
Capacity for Genesee County Solid Waste Plan**

Dear Ms. Kerby,

This letter is being sent in response to your request that Venice Park Recycling and Disposal Facility (Venice Park) provide you with a letter confirming that Genesee County has access to Venice Park's listed capacity.

Venice Park is a licensed Municipal Solid Waste Landfill, and is authorized to accept solid waste in accordance with Michigan Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, PA 451. As such, Venice Park accepts municipal, commercial and industrial, non-hazardous solid wastes for disposal.

Venice Park intends to operate for more than ten years, and during this time will accept non-hazardous solid waste from Genesee County in accordance with the approved Solid Waste Management Plans for Shiawassee and Genesee Counties.

Venice Park's address is provided at the top of this letter.

Please feel free to contact me at 810-621-9080 or by e-mail at jgall@wm.com if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "John Gall".

John Gall
District Manager
Venice Park Recycling and Disposal Facility

From everyday collection to environmental protection, Think Green® Think Waste Management.



WASTE CONNECTIONS INC.
Connect with the Future®

BRENT RUN LANDFILL

8/1/12

Ann Marie Kerby
Associate Planner
Genesee County Metropolitan Planning Commission
1101 Beach Street, Room 223
Flint, MI 48502

RE: Brent Run Landfill Listed Capacity

Ms. Kerby,

In response to your request on July 25, 2012; Brent Run Landfill would like to indicate that it will accept waste from Genesee County. Brent Run landfill is a Type II Landfill and is located at: 8335 Vienna Rd., Montrose, MI 48457. The Brent Run Landfill intends to accept waste for 10 or more years.

Sincerely,

Dan Gudgel
District Manager
Brent Run Landfill



August 10, 2012

Genesee County Metropolitan Planning Commission
Room 223
1101 Beach Street
Flint, Michigan 48502-1470

Attention: Ann Marie Kerby
Associate Planner
Email: akerby@co.genesee.mi.us

Re: Genesee County Solid Waste Plan Update

Gentlemen:

This letter is in response to your email dated July 25, 2012 regarding the Genesee County Solid Waste Plan.

Citizens Disposal, Inc. currently operates a Licensed Type II Solid Waste Disposal Area, MDEQ License Number 9291 at 2361 W. Grand Blanc Road, in Mundy Township, Genesee County, Michigan. The Facility is included in the existing Genesee County Solid Waste Plan as well as the Proposed Genesee County Solid Waste Plan Update.

Citizens Disposal, Inc. intends to operate the facility in excess of 10 years, accepting non-hazardous solid waste generated from both within and outside Genesee County in compliance with State and Federal Regulations.

As requested, we are also submitting a site plan that depicts the areas listed on the facility description form. We would like to note that we have identified two areas of the site for soil stockpiling/future expansion. We have also noted some additional property that may potentially be used as a soil borrow source. If you have any questions, please feel free to contact Robb Moore at 810-655-6906 or the undersigned at 810-768-2222.

Sincerely,

CITIZENS DISPOSAL, INC.

A handwritten signature in black ink, appearing to read "Bob Borchers", written over a horizontal line.

Bob Borchers
General Manager

cc: Robert S. Thornton
Citizens Disposal, Inc. Operating Record

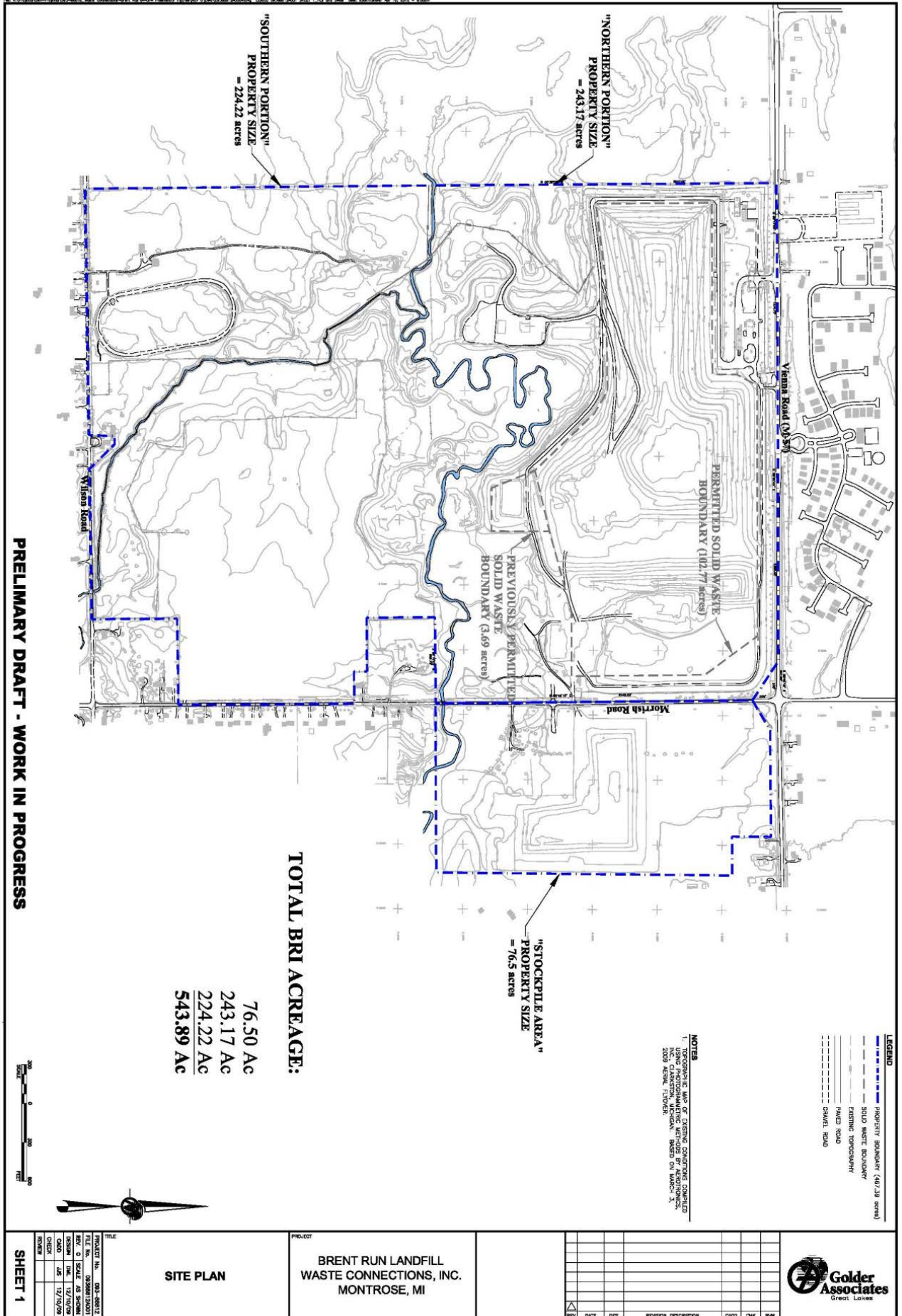
Maps

Maps showing locations of solid waste disposal facilities used by the County.

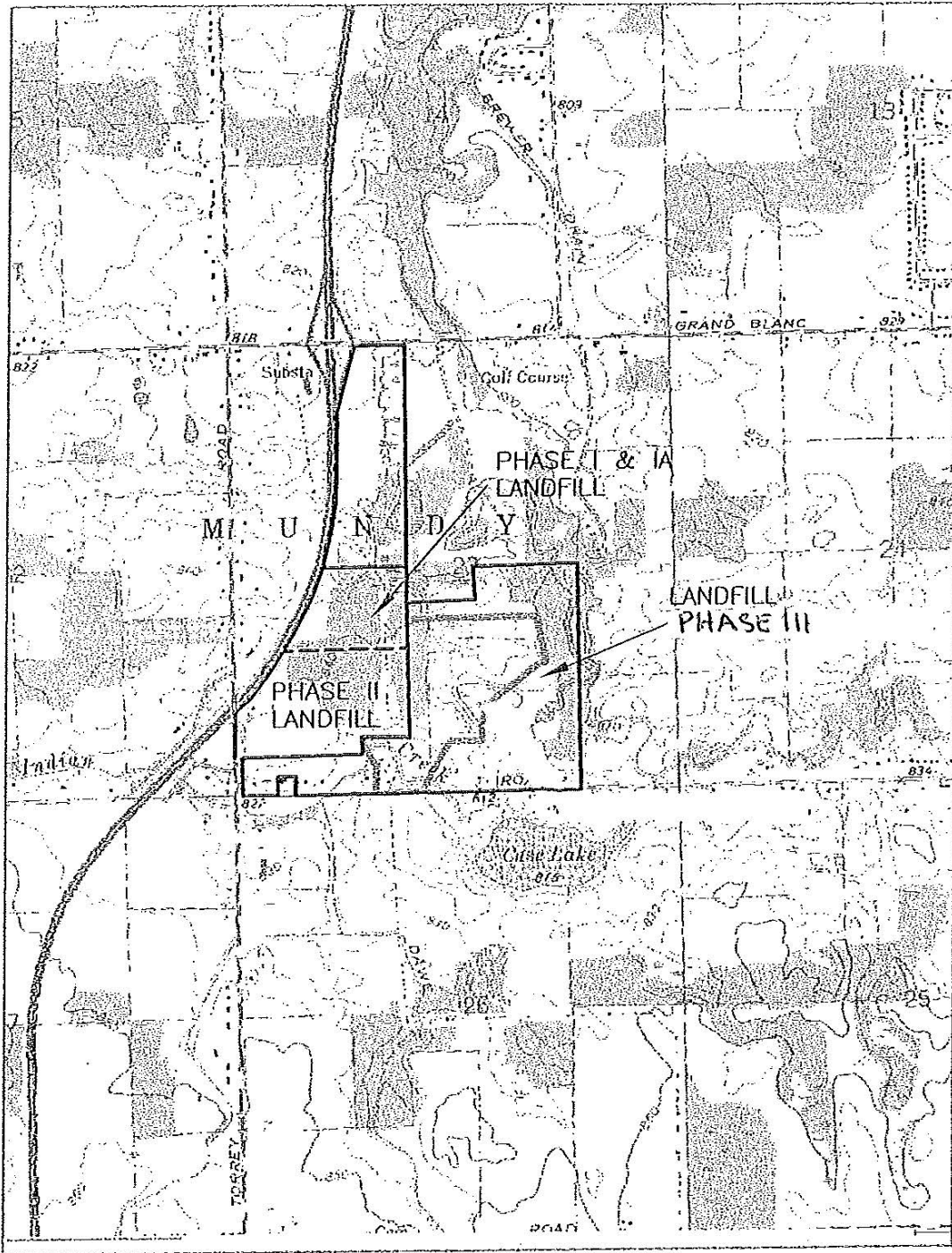
Brent Run Landfill Location



Brent Run Landfill Boundary



Citizen's Disposal Location



NOTE: DATA SUPPLIED FROM DELORME, MICHIGAN-FLINT SOUTH, 1999, 3-D TOPOQUADS.



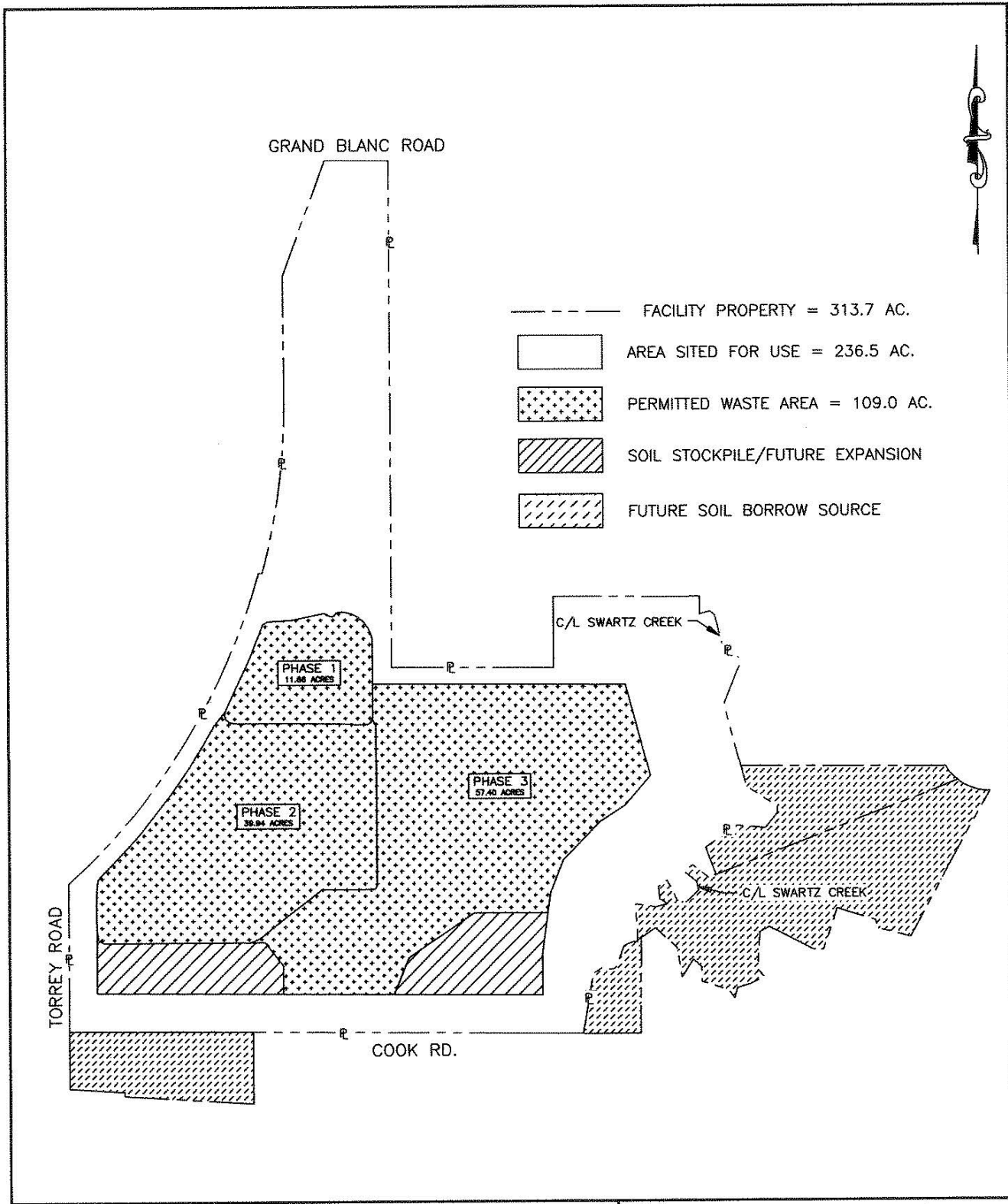
CITIZENS DISPOSAL, INC.

GRAND BLANC, MICHIGAN
SITE LOCATION MAP

DESIGNED BY	CXM	6/21/01
DRAWN BY	JLC	6/21/01
APPROVED BY	PLE	6/21/01
CADFILE	SCALE	
473596020	1"=2000'	
STS PROJECT NO.	FIGURE NO.	
73596	1	

X:\PROJECTS\ID 101\73596\dwg\scanned\473596020.dwg, Model, 07/02/01 02:02:16 PM, Calaway

Citizen's Disposal Boundary



MIDWESTERN CONSULTING

MC Civil, Environmental and Transportation Engineers Planners, Surveyors Landscape Architects

3815 Plaza Drive
Ann Arbor, Michigan 48108
Phone: 734.995.0200
Fax 734.995.0599

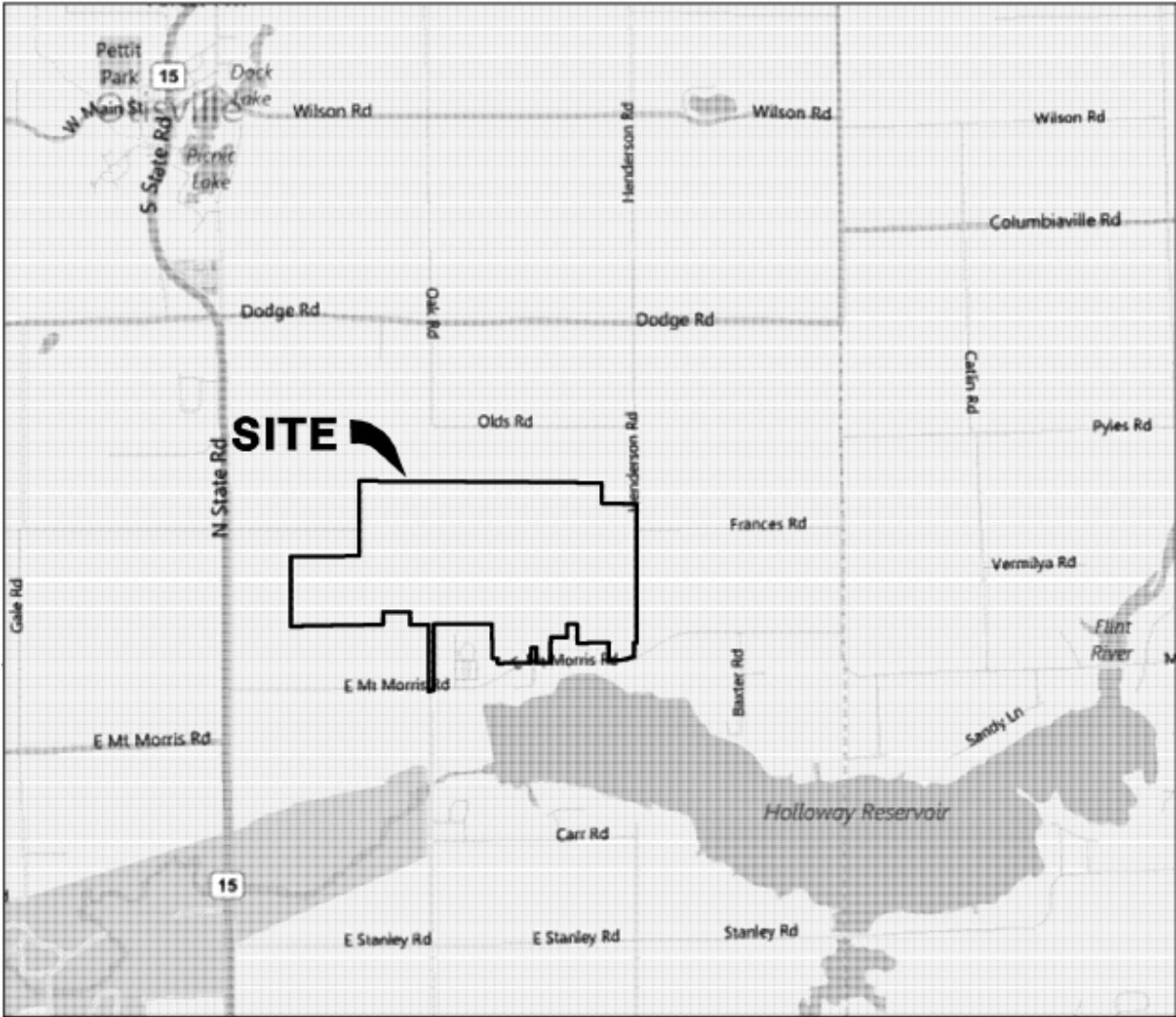
CITIZENS DISPOSAL, INC.
SITE PLAN

DATE: 8/9/12 JOB NO.: **00022**

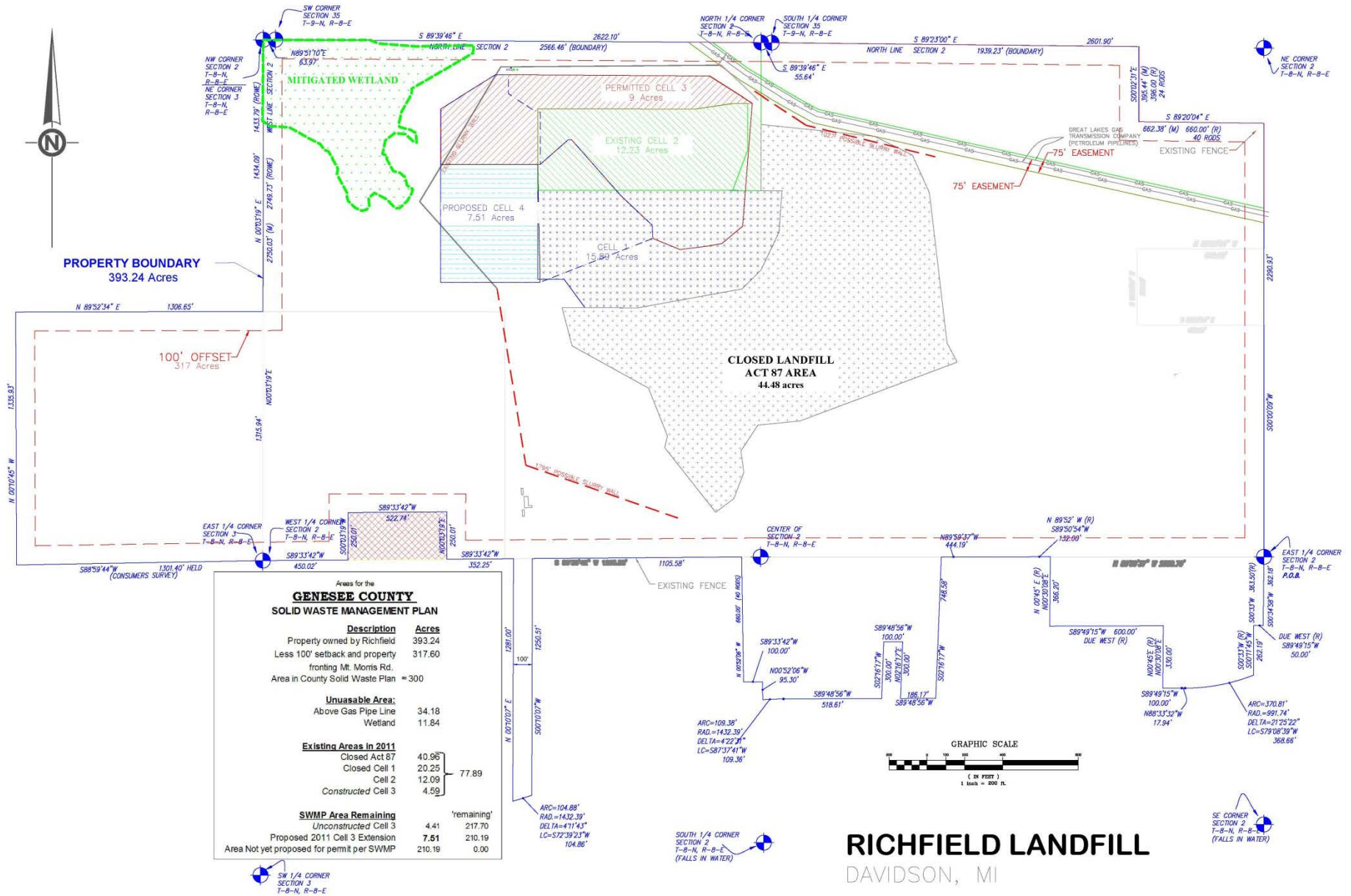
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SHEET 1 OF 1

Richfield Landfill Location



Richfield Landfill Boundary



Genesee County
Solid Waste Management Plan



Inter-County Agreements

Copies of Inter-County agreements with other Counties (if any).



Special Conditions

Special conditions affecting import or export of solid waste.



Appendix E

Technical Report 1

Technical Report 2

Technical Report 3

Technical Report 4

Genesee County Recycling Assessment



Genesee County Solid Waste Management Plan

Technical Report 1
Overview of County and Database

GENESEE COUNTY
METROPOLITAN PLANNING COMMISSION

3	Plan Introduction
4	Overall View of the County Land Use and Demographics Socioeconomic Projections
10	Database Methodology Imported and Exported Waste Volumes
20	Recycling Employment Factors
24	Appendix



Plan Introduction

Over the last several years, approaches to solid waste planning across the country have evolved significantly. Technological advancements and the general need to conserve resources for economic, public health and environmental reasons have helped shape dynamic solid waste programs.

The Genesee County Solid Waste Plan and corresponding programs have been serving the residents and businesses of the county for decades to insure efficient disposal and recycling services as well as provide educational and recycling incentive opportunities. This amendment of the Genesee County Solid Waste Plan will not only continue to insure those core principles, but will also expand upon the plan and programs to help reap the greatest sustainable benefits in the solid waste system.

This plan is organized according to the DEQ's regulations for solid waste plans. While following those guidelines, the plan also incorporates additional sections that are vital to understanding the importance of solid waste and recycling in Genesee County, as well as seeking to deliver detailed and measurable implementation steps for improving solid waste system planning.

Overall View of County

Genesee County is located in Southeast Michigan. It is bordered to the north by Saginaw and Tuscola Counties; to the east by Lapeer County; to the south by Oakland and Livingston Counties; and to the west by Shiawassee County. The County covers approximately 637 square miles of which 49% is urban or built and 51% is rural or undeveloped.



Higher concentrations of population and residential areas are primarily in the Cities of Flint and Burton, as well as the townships of Grand Blanc, Flint, Davison and Mt. Morris as portrayed in Figure A of the Appendix. Economic data is also provided in Figure A for each municipality showing their total contributing percentage of employment to each industry. The City of Flint accounts for the majority of economic activity, followed by Flint and Grand Blanc Townships. Overall in the county, 47% of employment is accounted for in the Service sector, followed by Retail, Government and Manufacturing which each make up between 10 to 12% of total employment.



Overall View of the County

Pop 2010	# of Employees	U&B %	UND %	Econ M %	Econ O %	Econ T %	Econ F %	Econ R %	Econ W %	Econ S %	Econ G %
425,790	224,123	49%	51%	10.25%	5.85%	2.71%	6.74%	12.50%	3.20%	46.93%	11.82%

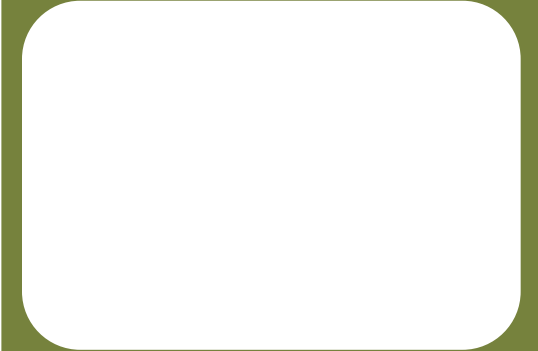
*U & B = Urban and Built, UND = Undeveloped, Econ M = Manufacturing, Econ O = Other, Econ T = Transportation, Warehousing & Real Estate, Econ F = Finance, Insurance & Real Estate, Econ R = Retail Trade, Econ W = Wholesale Trade, Econ S = Service, Econ G = Government. Figure A in the Appendix expands on this table to show all municipalities.

Land Use and Demographics

In 2006, the GCMPC performed an analysis of the past and current land use trends in Genesee County. The results of this analysis show that of the nearly 410,000 acres that make up Genesee County, 209,981 of those acres are agricultural and other undeveloped land (see Figure 4.1). However, mainly due to residential development in our rural townships, agricultural land is depleting. Of the remaining land uses, the single family residential (SFR) use dominates the landscape. A total of 57% of the “built” environment in Genesee County is comprised of SFR development.

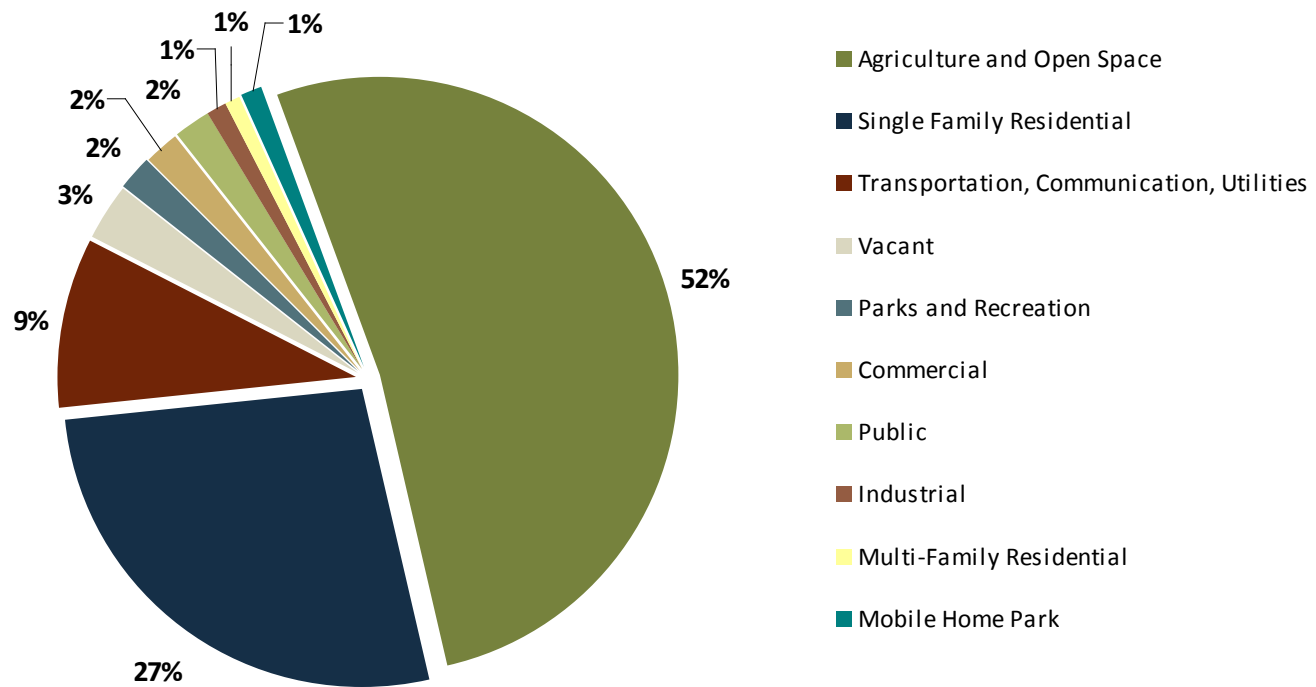
Figure 4.1

2006 Existing Genesee County Land Use		
Classification	Acreage	% of County
Agriculture and Open Space	210,062	52%
Single Family Residential	109,760	27%
Transportation, Communication, Utilities	34,750	9%
Vacant	13,645	3%
Parks and Recreation	9,124	2%
Commercial	8,813	2%
Public	8,327	2%
Industrial	5,863	1%
Multi-Family Residential	3,802	1%
Mobile Home Park	3,253	1%
Total Acreage	407,399	100%



Land use trends in the county have relied heavily on land consumption with the majority of development occurring on agricultural lands and other open spaces. With a quarter of the county consisting of SFR developments and residential waste currently 35% of the total waste generated in the county, it is important to take into consideration land development trends when projecting solid waste capacity in Genesee County . Possible increases in waste generation may result from the residential sector if these land use trends should continue.

Percent of Land Use in Genesee County (2006)



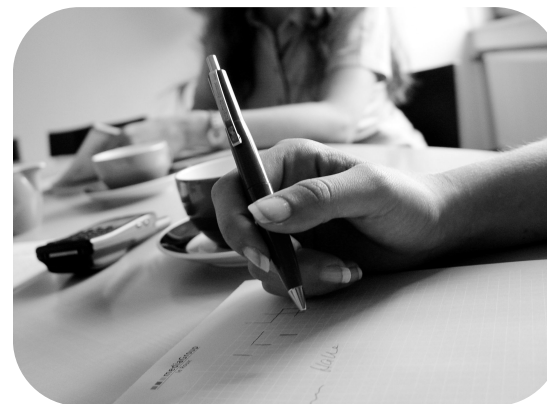
Socioeconomic Projections

In order to accurately estimate the existing and future generated solid waste stream in the County, population and employment data was gathered. Genesee County has used population and employment data from a combination of sources that include the U.S. Census Bureau and projections made by GCMPC that were part of the Genesee County Long Range Transportation Plan 2035 (2009). The projections are not calculated using the 2010 U.S. Census data; consequently the growth rate between 2010 and 2015 is slightly higher than expected.

Base Year Employment Data Methodology

The GCMPC utilized the Claritas Business-Facts® dataset as a base for employment projections in Genesee County for the 2035 Long Range Transportation Plan. This dataset was provided by the Michigan Department of Transportation (MDOT) and provides geographically located employers in Genesee County, their number of employees, and industry codes. To determine the accuracy of the new dataset and as a validation measure, GCMPC staff attempted to contact all employers with over 100 employees to determine if the number of employees represented in the dataset were

accurate, and if the employees were located in the correct location. Not all employers could be reached or were willing to provide the information. Out of the 209 employers contacted, any reported differences to their employee



numbers or to their locations was corrected in the employment database. GCMPC staff made a special attempt to contact the top 10 employers in Genesee County to get accurate estimates of their employment. These were also adjusted to the dataset. Overall, the Claritas data was deemed to be fairly reliable. Most employers contacted have employment represented fairly accurately and within about 10 employees of the numbers provided in the Claritas dataset. GCMPC staff coded the employees based on the North American Industrial Classification System (NAICS) codes into eight categories. See the following chart for a description of the NAICS codes and the GCMPC categories.

Figure 4.5

Genesee County 2010-2035 Socioeconomic Projections *

Employment Category	2010	2015	2020	2025	2030	2035
Manufacturing	22,970	20,432	18,962	17,516	16,077	14,763
Other	13,102	13,693	13,876	13,778	13,804	13,846
Transportation and Public Utilities	6,075	6,187	6,189	6,053	5,932	5,798
Finance, Insurance and Real Estate	15,117	15,489	15,654	15,453	15,337	15,205
Retail Trade	28,023	27,966	27,707	27,009	26,553	26,126
Wholesale Trade	7,164	6,792	6,479	6,090	5,708	5,328
Services	105,186	112,086	117,666	120,728	124,384	128,129
Government	26,486	26,461	26,411	26,366	26,427	26,511
Total Employment	224,123	229,106	232,944	232,993	234,222	235,706
County Population Estimates	425,790	454,666	456,726	460,880	464,923	468,938



*These projections did not factor in the 2010 U.S. Census numbers.

It is projected that Manufacturing, Transportation and Public Utilities, Retail Trade, Wholesale Trade, and Government jobs will all decrease over the next 25 years. However, Services and Other job categories (which includes agricultural and forestry jobs) are projected to increase. The Services sector is substantially going to increase, resulting in an overall county estimate of approximately 11,000 more jobs by the year 2035. These projections significantly affect commercial waste generation estimates as each industry sector produces different amounts of waste per employee. The waste generation methodology and data is explained in the next section.



D a t a b a s e

The database section elaborates on the sources of waste generation within Genesee County and indicates the total quantity of solid waste generated to be disposed and diverted. This information is a crucial factor in determining future landfill capacity as well as an indicator of where additional efforts need to be made to help divert waste from the landfills.

Sources of Waste Generation

Waste in Genesee County comes from a variety of sources; in general, the majority of non-hazardous waste generated is municipal solid waste or MSW, which includes residential, commercial and industrial land uses. The rest of the waste is made up of construction and demolition debris or CDD and industrial special wastes or ISW.

Residential Waste

Methodology

Residential waste generation for Genesee County was calculated based on the Recycling Rate Assessment completed by the county solid waste management staff (see appendix). The study provides a sample survey of total waste generated and recycled by households which provides an average amount for residential waste generation and the amounts diverted from the landfills. Through our partnerships with local waste haulers and recyclers, staff coordinated and facilitated random sampling of households in Genesee County in regards to the amount (weight) of material recycled versus the total amount of waste material generated.

Through the use of the U.S. Environmental Protection Agency's standardized method for calculating recycling rates, staff was able to determine the rate for each jurisdiction sampled while using those figures to calculate rates for jurisdictions with similar traits and number of households.

$$\text{Recycling Rate} = (\text{Total Residential Recycled} / \text{Total Residential Generated}) \times 100$$

Staff developed a system to survey three local units; one in each of the following categories:

1. City
2. Urban Township (> 5,000 housing units)
3. Rural Township (< 5,000 housing units)

Through random sampling of each category, an average weight recycled and average weight of waste generated per housing unit was determined. This was then used to calculate the recycling rate for each of the other local jurisdictions. Staff was then able to calculate an estimated countywide recycling rate of 6%, as well as an estimated recycling rate by jurisdiction.

In order to get a sample with a 95% confidence level with a 5% confidence interval, 350 or more households were surveyed in each local unit. There was no sorting of materials, just strictly weighing the material that comes in on the truck. Staff coordinated these efforts with local waste haulers.



Commercial Waste Generation

Methodology

Commercial waste generation for the county was one of the more difficult data pieces to account for in the development of this plan as commercial and industrial waste contracts are typically between two private entities. With local data not available, staff reviewed a variety of data sources and methodologies. Staff concluded that national data averages for commercial waste generation and diversion may not accurately reflect our areas trends, however, the methodology

used by Washtenaw County in their Solid Waste Plan Update (2000) to develop their commercial waste generation and diversion estimates seemed sound and could be slightly modified to calculate Genesee County quantities.

The Washtenaw County methodology was developed by surveying a sample of local businesses regarding their waste and diversion quantities. They used the sample data to make assumptions regarding specific business sectors such as per employee waste generation quantities and diversion rates. The benefit of this methodology is that when projecting future waste generation and diversion quantities for industries one can better account for shifts in the economy, such as a workforce moving from a manufacturing based economy to a service based economy, that may dramatically increase or decrease waste generation and diversion. These quantities and rates were used with Genesee County industry sector employee data and employment projections to calculate current and future waste and diversion quantities for the county as a whole. This data was then used to create growth factors for future years for waste and diversion quantities. Recognizing that the quantities generated from this methodology are estimates, staff concluded that the growth factors themselves were developed from a sound methodology and should be used for further analysis in the development of the plan.



To estimate commercial waste generated in the current year (2010), staff subtracted residential waste quantities provided by the local units of government from the DEQ Municipal Solid Waste (MSW) generation total for Genesee County.

Total Municipal Solid Waste – Residential Waste = Commercial Waste

This quantity is identified as the base quantity of commercial waste generated for the plan. The calculated growth factor percentages were applied to this base quantity to generate future commercial waste generation. The commercial waste generation growth factor percentages were calculated from the corresponding industry sector charts listed in the appendix.

Year	Total Commercial Waste Generated % Decrease
2010	-
2015	1.2%
2020	0.6%
2025	1.9%
2030	1.5%
2035	1.3%

Industry	Waste Generation Rate lbs./employee/day	Work Days
Manufacturing	21.36	6.33
Other	5	5
Transportation	4.75	5
Finance	4.75	5
Retail	16.31	6.44
Wholesale	10.21	6.43
Service	5.41	5.71
Government	4.75	5

Total Waste Generated

Figure 2.4 details the total waste generated for 2010 in Genesee County, as well as projects out waste generation through 2035 using the growth rate of the population projections from the *Genesee County Long Range Transportation Plan 2035*. This estimated growth rate of waste generation gives the county an idea of how to plan for increases in waste and look for methods to help reduce waste generation. Overall, if the population grows at a similar rate as projected, Genesee County will see an increase of 10.13 % in total annual waste generation (CY) from 1.4 million cubic yards in 2010 to 1.54 million cubic yards in 2035. The increase in waste is coming primarily from the residential sector (showing an overall 30% increase); as the commercial sector foresees a gradual 6.5% decrease over the next 25 years due to a shift in the manufacturing sector industry.

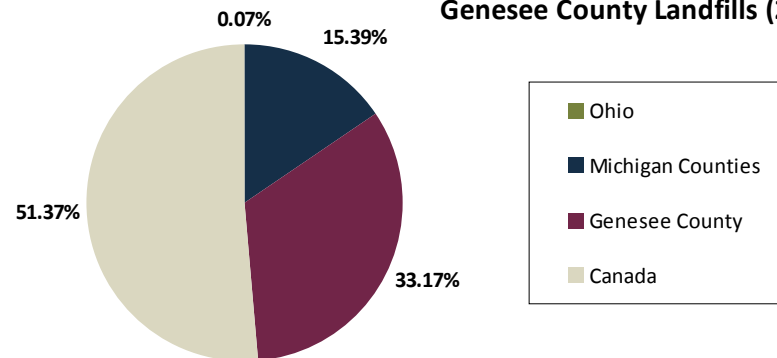
Total Waste Generated (cubic yards per year)						
Cubic Yards Generated						
Sector	2010	2015	2020	2025	2030	2035
Residential*	443,479	530,029	536,584	550,456	563,700	576,610
Commercial	818,593	817,611	817,120	815,567	814,344	813,285
MSW Sub-total	1,262,072	1,347,640	1,353,704	1,366,023	1,378,044	1,389,895
Construction / Demolition	74,484	79,534	79,892	80,619	81,328	82,027
Industrial Special Waste	66,221	70,711	71,029	71,675	72,306	72,928
Total Annual Cubic Yards	1,402,777	1,497,885	1,504,625	1,518,317	1,531,678	1,544,850
Population	425,790	454,666	456,726	460,880	464,923	468,938
Pop Growth Rate (%)	NA	6.78%	0.45%	0.91%	0.88%	0.86%

*Does not include multi-family data.

Imported and Exported Waste Volumes

Part of the purpose of the Solid Waste Plan is to determine current and future landfill capacity in the county. One of the key determinants of landfill capacity and waste volumes in the county is imported and exported waste. Staff utilized the Michigan Department of Environmental Quality's *Reports of Solid Waste Landfilled in Michigan* from 2006 through 2010 to determine the average imported and exported waste volumes. The total numbers include municipal, industrial, and construction and demolition waste.

Percentage of Average Waste in Genesee County Landfills (2006-2010)



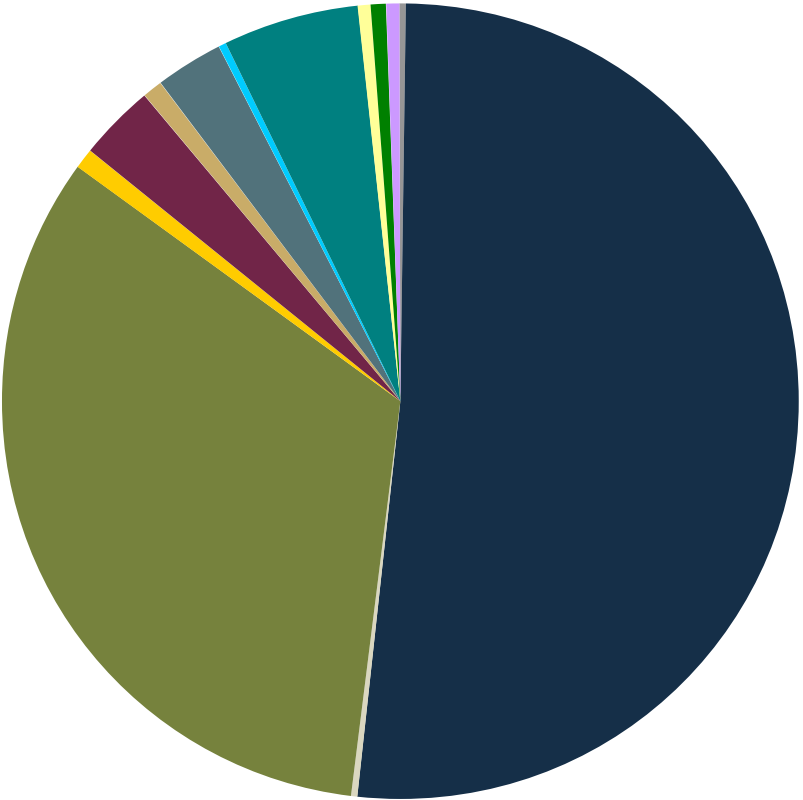
Imported Waste Volumes to Genesee County

The following tables and map show the significant amount of waste that Genesee County imports every year. While Genesee County typically sends about 1.3 million Cubic Yards of waste to its own landfills, this only accounts for 33% of the average total waste entering the landfills. On average, over 50% of waste comes from Canada and approximately 15% of waste comes from other Michigan counties.

Figure 2.7

Origin	Average Waste (CY)	Percentage of Total Average Waste Imported into Genesee Co.
Michigan Counties (excluding Genesee)	608,955	23.03%
Canada	2,032,061	76.86%
Ohio	2,906	0.11%
Total Average Waste Imported	2,643,922	100%

Average Imported Waste Volumes into Genesee County (2006-2010)



Bay County	0.40%
Canada	51.37%
Calhoun County	0.00%
Clinton County	0.15%
Eaton County	0.02%
Genesee County	33.17%
Gratiot County	0.62%
Huron	0.00%
Ingham County	0.04%
Isabella County	0.00%
Kalkaska County	0.13%
Lapeer County	2.90%
Lenawee County	0.00%
Livingston County	0.82%
Macomb County	0.00%
Oakland County	2.96%
Ohio	0.07%
Saginaw County	5.59%
Sanilac County	0.10%
Shiawassee County	0.51%
Tuscola County	0.68%
Washtenaw County	0.04%
Wayne County	0.43%

Exported Waste Volumes

Over the last 5 years, the average amount of waste produced by Genesee County is about 1.6 million Cubic Yards; of this amount, only 21% is exported to other counties in Michigan. Genesee County typically exports its waste to Oakland, Saginaw, Shiawassee, Washtenaw and Wayne counties, with the majority of the waste being exported to Shiawassee County. With a high percentage of imported waste into the county, this reinforces that additional efforts need to be made to implement programs to divert waste from county landfills. The table and map below show total average numbers for Genesee County exported waste volumes from the years 2006 through 2010.

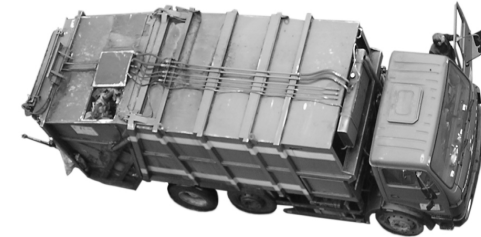


Figure 2.10

Average Exported Waste Volumes from Genesee County (Cubic Yards)						
Destination	2006	2007	2008	2009	2010	Total Average
Bay County	34	0	0	0	162	39
Clinton County	40	0	4	44	218	61
Oakland County	568	279	64	0	0	182
Ontonagon County	0	0	0	0	136	27
Saginaw County	31,248	34,586	35,219	31,738	24,152	31,389
Shiawassee County	448,725	402,934	61,212	341,020	328,553	316,489
Washtenaw County	3,590	1,766	2,783	2,751	9,409	4,060
Wayne County	589	9,752	988	204	2	2,307
Total Average Exported						354,554

Total Average Exported 354,554

CANADA

Ontonagon

MICHIGAN

Lake Huron

27

Bay

38

31,389

61

Clinton

Saginaw

Genesee

316,489

Lake Michigan

Shiawassee

182

Oakland

4,060

Washtenaw

2,307

Wayne

Washtenaw

Lake Erie

INDIANA

OHIO

Average Exported Waste Volumes 2006 - 2010
From Genesee County, Michigan



2 - 4,060 31,389 316,489



Cubic Yards of Waste



Recycling Employment Factors

When analyzing the effectiveness of recycling in Genesee County, an important factor to consider are the various industries of recycling and how many people are employed as a result. Staff found the report, *Employment Trends in North Carolina's Recycling Industry – 2010* to contain helpful methodology in providing employment data. Staff used similar 2007 NAICS codes to break the data into several different categories, reflecting the variety of recycling industries in the county. The industries that data was collected for were Recycling Collection Businesses, Recycling Process and Manufacture, Wholesale and Retail Reuse, and Supporting Businesses.



Figure 5.1 reveals the number of people employed at governmental organizations and landfills that directly oversee and process recycling collections. As part of the Recycling Process and Manufacture sector total employment is listed as 888 employees, where approximately one third of those jobs involve working with recycling various plastic materials. The Wholesale and Retail Reuse sector has the most significant number of employees (14,697), with over 90% of employees in this sector categorized in Motor Vehicle Parts Manufacturing. Another significant sector of recycling services in Genesee County are the Supporting Businesses, which include Engineering and Research Services as well as Marketing Consultants that aid with providing support to the rest of the recycling sector.



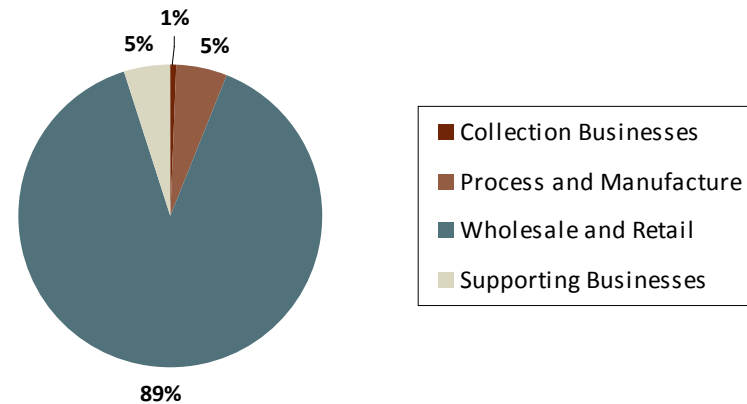
Figure 5.1

Recycling Collection Businesses	
Type	Employment
Program Administration	45
Landfill	57
Recycling Process and Manufacture	
Paper	98
Copper	150
Plastics	335
Urethane and Other Foam	200
Gasket Packaging	100
Rubber	3
Construction Materials	2
Genesee County Wholesale and Retail Reuse Employment Data	
Used and General Merchandise Stores	601
Electronics Maintenance and Repair	349
Household Goods Repair	99
Commercial Machinery Repair and Maintenance	191
Motor Vehicle Parts Manufacturing	13,417
Farm Equipment Manufacturing	4
Construction Machinery Manufacturing	28
Misc. Fabricated Metal Products Manufacturing	8
Genesee County Supporting Business Employment Data	
Engineering and Research Services	405
Administrative Management Consulting Services	60
Human Resources Consultants	78
Marketing Consultants	153
Process and Logistics Services	74
Commodity Contracts, Brokerage	7
Freight Transportation Arrangement	43

As shown below, Genesee County supports a total of 16,507 employees through various recycling services, making up 7% of total county employment. The majority of employment is found in the Wholesale and Retail sector, where there are 14,697 employees making up 89% of the total recycling employment. Based on the data found through staff's analysis, it is evident that the recycling sector is a vital part of Genesee County's economy, where additional policies and programs to support and increase recycling efforts in the county would clearly benefit this employment sector.

Genesee County Summary Recycling Employment Data

Type	Employment
Collection Businesses	102
Process and Manufacture	888
Wholesale and Retail	14,697
Supporting Businesses	820
TOTAL	16,507



Conclusions

This section has drawn upon several data sets that contribute to summarizing the future of waste generation in Genesee County. The culmination of population, employment and land use projections are a foundation of contributing factors that directly impact the amount of waste generated in the county. This report has found that if economic conditions stay true to what is projected, population of the county will steadily rise and waste generation will therefore increase by over 10% in the next 25 years.

Imported and Exported waste volumes were also evaluated as part of this report; it is clear that Genesee County exports far less trash than it imports (where more than 50% of waste in the county landfills is from Canada). Recycling employment data was also analyzed and shows the positive economic impacts that this industry has in our area, proving that supporting additional recycling efforts would reap various environmental, public health and economic benefits.

With this information in mind, the Solid Waste Plan will provide a necessary platform for making suggestions for policy and program changes that would impact waste generation in Genesee County, with the goal to decrease the amount of trash the county generates and takes in over the next 25 years.



Technical Report 1 Appendix

- 25 Overall View of the County – Population, Land Cover and Economic Base
 - 27 GCMPC NACIS Codes
 - 28 Commercial Waste Generation Tables 2010-2035
 - 31 Average Imported Waste Volumes
-
-

Figure A

Overall View of the County – Population, Land Coverage & Economic Base *											
Local Unit	Pop 2010	U & B %	UND %	Econ M %	Econ O %	Econ T %	Econ F %	Econ R %	Econ V %	Econ S %	Econ G %
Cities											
Burton	29,999	6.11%	1.35%	2.48%	10.70%	5.81%	5.47%	13.28%	8.45%	6.47%	2.94%
Clio	2,645	0.30%	0.06%	0.25%	0.52%	0.92%	0.78%	1.57%	0.84%	0.77%	1.33%
Davison	5,173	0.50%	0.10%	1.38%	0.92%	0.71%	1.74%	2.07%	0.48%	1.32%	2.80%
Fenton	11,756	1.85%	0.32%	3.90%	3.32%	1.75%	7.18%	9.18%	2.18%	4.53%	1.80%
Flint	102,434	10.61%	0.24%	64.64%	19.91%	48.99%	35.36%	16.05%	28.71%	29.74%	62.39%
Flushing	8,389	1.04%	0.12%	0.09%	1.85%	0.99%	1.26%	1.88%	0.99%	1.58%	1.25%
Grand Blanc	8,275	1.08%	0.07%	5.22%	2.36%	0.68%	4.82%	2.29%	1.91%	3.57%	2.04%
Linden	3,991	0.67%	0.08%	0.05%	0.82%	1.28%	0.17%	0.58%	0.17%	0.60%	0.29%
Montrose	1,657	0.24%	0.07%	0.04%	0.15%	0.29%	0.46%	0.18%	0.23%	0.56%	0.38%
Mount Morris	3,085	0.28%	0.09%	0.06%	0.52%	0.78%	0.35%	0.55%	0.08%	0.53%	0.94%
Swartz Creek	5,758	1.20%	0.11%	2.25%	0.91%	1.44%	1.14%	0.98%	1.68%	1.26%	0.91%
Townships											
Argentine	6,913	3.10%	7.64%	0.12%	1.07%	0.00%	0.21%	0.26%	0.55%	0.75%	0.78%
Atlas	7,993	4.88%	5.45%	0.72%	1.44%	0.10%	0.01%	0.30%	0.22%	0.41%	0.22%
Clayton	7,581	2.90%	7.62%	0.11%	1.25%	0.52%	0.70%	0.43%	0.47%	0.73%	0.71%
Davison	19,575	5.26%	5.20%	0.88%	2.48%	0.90%	2.90%	1.67%	0.68%	2.84%	0.71%

Fenton	15,552	4.09%	3.33%	1.44%	4.31%	1.06%	1.19%	0.59%	3.16%	1.26%	0.54%
Flint	31,929	6.19%	1.25%	2.44%	10.40%	13.52%	17.43%	24.48%	15.45%	14.49%	6.22%
Flushing	10,640	3.46%	6.32%	0.25%	1.56%	0.35%	0.26%	0.20%	0.36%	0.77%	0.42%
Forest	4,702	3.07%	7.61%	0.13%	0.78%	0.05%	0.20%	0.08%	0.65%	0.20%	0.00%
Gaines	6,820	2.71%	8.02%	0.02%	1.51%	0.10%	0.06%	0.06%	0.43%	0.15%	0.48%
Genesee	21,581	5.54%	3.66%	0.83%	4.49%	4.26%	1.69%	4.04%	2.46%	3.88%	1.13%
Grand Blanc	37,508	7.74%	2.68%	8.41%	7.39%	3.35%	5.39%	4.66%	12.70%	9.64%	1.54%
Montrose Mount	6,224	3.74%	6.94%	0.00%	1.56%	0.38%	0.35%	0.63%	0.68%	0.38%	0.56%
Morris	21,501	5.12%	4.79%	1.70%	8.08%	6.73%	4.00%	5.70%	6.60%	4.60%	6.11%
Mundy	15,082	4.68%	6.58%	0.99%	3.96%	1.47%	4.26%	4.99%	4.93%	4.90%	0.87%
Richfield	8,730	4.16%	6.77%	0.34%	3.00%	1.21%	0.38%	0.31%	1.93%	0.32%	0.80%
Thetford	7,049	3.48%	7.26%	0.12%	1.69%	0.17%	0.25%	0.34%	0.15%	0.41%	0.68%
Vienna	13,255	4.89%	6.06%	0.86%	2.26%	1.96%	1.44%	2.06%	2.55%	2.06%	0.11%
Villages											
Gaines	380	0.08%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Goodrich	1,850	0.46%	0.23%	0.28%	0.39%	0.21%	0.47%	0.42%	0.26%	1.12%	0.43%
Lennon	511	0.03%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Otisville	854	0.24%	0.04%	0.02%	0.41%	0.00%	0.09%	0.18%	0.04%	0.18%	0.61%
Otter Lake	389	0.03%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Total	429,781										

*U & B = Urban and Built, UND = Undeveloped, Econ M = Manufacturing, Econ O = Other, Econ T = Transportation, Warehousing & Real Estate, Econ F = Finance, Insurance & Real Estate, Econ R = Retail Trade, Econ W = Wholesale Trade, Econ S = Service, Econ G = Government.

Genesee County Employment Categories and Corresponding SIC and NAICS Code			
GCMPC Categories	SIC Categories	NAICS Codes	NAICS Titles
Manufacturing	Durables	33	Manufacturing
	Non-Durables	31-32	Manufacturing
	Mining	21	Mining
	Construction	23	Construction
Other	Agr,For,Fish Services	11	Agriculture, Forestry, Fishing and Hunting
	Farm	11	Agriculture, Forestry, Fishing and Hunting
Transportation, Warehousing & Real Estate	Trans & Public	48-49	Transportation and Warehousing
	Utilities	22	Utilities
Finance, Insurance, & Real Estate	Fin, Ins & Real	52	Finance and Insurance
	Es	53	Real Estate, Rental and Leasing
Retail Trade	Retail Trade	44-45	Retail Trade
Wholesale Trade	Wholesale	42	Wholesale Trade
	Trade		
Service	Service	51	Information
		54	Professional, Scientific and Technical Services
		55	Management of Companies and Enterprises
		56	Administrative, Support, Waste Management and Remediation Services
		61	Educational Services
		62	Health Care and Social Assistance
		71	Arts, Entertainment and Recreation
		72	Accommodation and Food Services
		81	Other Services (except Public Administration)
		Government	State and Local
Federal Civilian	92		Public Administration
Federal Military	92		Public Administration

2010

Industry	Employees	Work Days	Waste Generation Rate lbs./employee/day	Total Waste Generated (tons/year)	Total Waste Generated Per Employee (tons/year)	% of Genesee County Waste	Diversion Rate	Total Disposed	%of Genesee County Waste	Total Diverted	% of Genesee County Waste
Manufacturing	22,970	6.33	21.36	80,749	3.52	27.7%	0.58	33,915	16.4%	46,835	55.3%
Other	13,102	5	5	8,516	0.65	2.9%	0.11	7,580	3.7%	937	1.1%
Transportation	6,075	5	4.75	3,751	0.62	1.3%	0.15	3,189	1.5%	563	0.7%
Finance	15,117	5	4.75	9,335	0.62	3.2%	0.2	7,468	3.6%	1,867	2.2%
Retail	28,023	6.44	16.31	76,529	2.73	26.2%	0.2	61,223	29.5%	15,306	18.1%
Wholesale	7,164	6.43	10.21	12,228	1.71	4.2%	0.2	9,783	4.7%	2,446	2.9%
Service	105,186	5.71	5.41	84,482	0.80	28.9%	0.15	71,810	34.7%	12,672	15.0%
Government	26,486	5	4.75	16,355	0.62	5.6%	0.25	12,266	5.9%	4,089	4.8%
Total	224,123			291,947				207,233		84,714	

2015

Industry	Employees	Work Days	Waste Generation Rate lbs./employee/day	Total Waste Generated (tons/year)	Total Waste Generated Per Employee (tons/year)	Percent of Genesee County Waste	Diversion Rate	Total Disposed	Percent of Genesee County Waste	Total Diverted	Percent of Genesee County Waste
Manufacturing	20,432	6.33	21.36	71,827	3.52	24.9%	0.58	30,167	14.5%	41,660	51.9%
Other	13,693	5	5	8,900	0.65	3.1%	0.11	7,921	3.8%	979	1.2%
Transportation	6,187	5	4.75	3,820	0.62	1.3%	0.15	3,247	1.6%	573	0.7%
Finance	15,489	5	4.75	9,564	0.62	3.3%	0.2	7,652	3.7%	1,913	2.4%
Retail	27,966	6.44	16.31	76,374	2.73	26.5%	0.2	61,099	29.4%	15,275	19.0%
Wholesale	6,792	6.43	10.21	11,593	1.71	4.0%	0.2	9,275	4.5%	2,319	2.9%
Service	112,086	5.71	5.41	90,024	0.80	31.2%	0.15	76,520	36.8%	13,504	16.8%
Government	26,461	5	4.75	16,340	0.62	5.7%	0.25	12,255	5.9%	4,085	5.1%
Total	229,106			288,443				208,136		80,307	

2020

Industry	Employees	Work Days	Waste Generation Rate lbs./employee/day	Total Waste Generated (tons/year)	Total Waste Generated Per Employee (tons/year)	Percent of Genesee County Waste	Diversion Rate	Total Disposed	Percent of Genesee County Waste	Total Diverted	Percent of Genesee County Waste
Manufacturing	18,962	6.33	21.36	66,660	3.52	23.3%	0.58	27,997	13.4%	38,663	49.7%
Other	13,876	5	5	9,019	0.65	3.1%	0.11	8,027	3.8%	992	1.3%
Transportation	6,189	5	4.75	3,822	0.62	1.3%	0.15	3,248	1.6%	573	0.7%
Finance	15,654	5	4.75	9,666	0.62	3.4%	0.2	7,733	3.7%	1,933	2.5%
Retail	27,707	6.44	16.31	75,666	2.73	26.4%	0.2	60,533	29.0%	15,133	19.5%
Wholesale	6,479	6.43	10.21	11,059	1.71	3.9%	0.2	8,847	4.2%	2,212	2.8%
Service	117,666	5.71	5.41	94,506	0.80	33.0%	0.15	80,330	38.4%	14,176	18.2%
Government	26,411	5	4.75	16,309	0.62	5.7%	0.25	12,232	5.9%	4,077	5.2%
Total	232,944			286,707				208,948		77,759	

2025

Industry	Employees	Work Days	Waste Generation Rate lbs./employee/day	Total Waste Generated (tons/year)	Total Waste Generated Per Employee (tons/year)	Percent of Genesee County Waste	Diversion Rate	Total Disposed	Percent of Genesee County Waste	Total Diverted	Percent of Genesee County Waste
Manufacturing	17,516	6.33	21.36	61,576	3.52	21.9%	0.58	25,862	12.5%	35,714	47.9%
Other	13,778	5	5	8,956	0.65	3.2%	0.11	7,971	3.9%	985	1.3%
Transportation	6,053	5	4.75	3,738	0.62	1.3%	0.15	3,177	1.5%	561	0.8%
Finance	15,453	5	4.75	9,542	0.62	3.4%	0.2	7,634	3.7%	1,908	2.6%
Retail	27,009	6.44	16.31	73,760	2.73	26.2%	0.2	59,008	28.6%	14,752	19.8%
Wholesale	6,090	6.43	10.21	10,395	1.71	3.7%	0.2	8,316	4.0%	2,079	2.8%
Service	120,728	5.71	5.41	96,965	0.80	34.5%	0.15	82,420	39.9%	14,545	19.5%
Government	26,366	5	4.75	16,281	0.62	5.8%	0.25	12,211	5.9%	4,070	5.5%
Total	232,993			281,213				206,599		74,614	

2030

Industry	Employees	Work Days	Waste Generation Rate lbs./employee/day	Total Waste Generated (tons/year)	Total Waste Generated Per Employee (tons/year)	Percent of Genesee County Waste	Diversion Rate	Total Disposed	Percent of Genesee County Waste	Total Diverted	Percent of Genesee County Waste
Manufacturing	16,077	6.33	21.36	56,518	3.52	20.4%	0.58	23,737	11.6%	32,780	45.7%
Other	13,804	5	5	8,973	0.65	3.2%	0.11	7,986	3.9%	987	1.4%
Transportation	5,932	5	4.75	3,663	0.62	1.3%	0.15	3,114	1.5%	549	0.8%
Finance	15,337	5	4.75	9,471	0.62	3.4%	0.2	7,576	3.7%	1,894	2.6%
Retail	26,553	6.44	16.31	72,515	2.73	26.2%	0.2	58,012	28.2%	14,503	20.2%
Wholesale	5,708	6.43	10.21	9,743	1.71	3.5%	0.2	7,794	3.8%	1,949	2.7%
Service	124,384	5.71	5.41	99,901	0.80	36.1%	0.15	84,916	41.3%	14,985	20.9%
Government	26,427	5	4.75	16,319	0.62	5.9%	0.25	12,239	6.0%	4,080	5.7%
Total	234,222			277,102				205,374		71,727	

2035

Industry	Employees	Work Days	Waste Generation Rate lbs./employee/day	Total Waste Generated (tons/year)	Total Waste Generated Per Employee (tons/year)	Percent of Genesee County Waste	Diversion Rate	Total Disposed	Percent of Genesee County Waste	Total Diverted	Percent of Genesee County Waste
Manufacturing	14,763	6.33	21.36	51,898	3.52	19.0%	0.58	21,797	10.7%	30,101	43.5%
Other	13,846	5	5	9,000	0.65	3.3%	0.11	8,010	3.9%	990	1.4%
Transportation	5,798	5	4.75	3,580	0.62	1.3%	0.15	3,043	1.5%	537	0.8%
Finance	15,205	5	4.75	9,389	0.62	3.4%	0.2	7,511	3.7%	1,878	2.7%
Retail	26,126	6.44	16.31	71,349	2.73	26.1%	0.2	57,079	27.9%	14,270	20.6%
Wholesale	5,328	6.43	10.21	9,094	1.71	3.3%	0.2	7,276	3.6%	1,819	2.6%
Service	128,129	5.71	5.41	102,909	0.80	37.6%	0.15	87,473	42.8%	15,436	22.3%
Government	26,511	5	4.75	16,371	0.62	6.0%	0.25	12,278	6.0%	4,093	5.9%
Total	235,706			273,590				204,467		69,123	

Average Imported Waste Volumes into Genesee County (Cubic Yards)							
Origin	2006	2007	2008	2009	2010	Total Average	% of Total Avr
Bay County	19,024	10,584	6,691	14,681	27,854	15,767	0.40%
Canada	1,744,157	1,726,610	2,026,347	2,393,825	2,269,367	2,032,061	51.37%
Calhoun County	0	0	15	149	0	33	0.00%
Clinton County	6,259	6,502	9,574	3,392	3,712	5,888	0.15%
Eaton County	2,770	1,200	660	193	31	971	0.02%
Genesee County	1,524,947	1,439,483	1,333,550	1,222,377	1,040,145	1,312,100	33.17%
Gratiot County	60,800	22,301	23,783	7,955	8,665	24,701	0.62%
Huron County	0	0	5	0	0	1	0.00%
Ingham County	1,195	854	2,217	254	2,597	1,423	0.04%
Isabella County	70	0	0	0	2	14	0.00%
Kalkaska County	0	0	0	0	24,977	4,995	0.13%
Lapeer County	150,803	118,522	117,421	104,805	81,816	114,673	2.90%
Lenawee County	52	101	3	0	0	31	0.00%
Livingston County	45,710	35,020	33,002	27,136	20,539	32,281	0.82%
Macomb County	357	237	161	123	0	176	0.00%
Oakland County	72,868	85,781	129,341	119,380	178,011	117,076	2.96%
Ohio	0	1,010	6,924	0	6,597	2,906	0.07%
Saginaw County	194,192	212,318	193,954	231,320	274,875	221,332	5.59%
Sanilac County	3,751	1,260	1,713	1,671	11,806	4,040	0.10%
Shiawassee County	28,208	29,249	21,342	13,535	8,331	20,133	0.51%
Tuscola County	26,191	26,601	34,092	22,772	24,347	26,801	0.68%
Washtenaw County	101	112	6,332	132	766	1,489	0.04%
Wayne County	327	1,904	8,219	43,045	32,150	17,129	0.43%



Genesee County Solid Waste Management Plan

Technical Report 2
Public Needs Assessment

GENESEE COUNTY
METROPOLITAN PLANNING COMMISSION



3	Section Introduction
4	Public Needs Assessment
17	Working Session
20	Top Priorities
25	Evaluation of Deficiencies and Problems
28	Solid Waste Area Summaries
40	Solid Waste Disposal Collection Services
45	Appendix

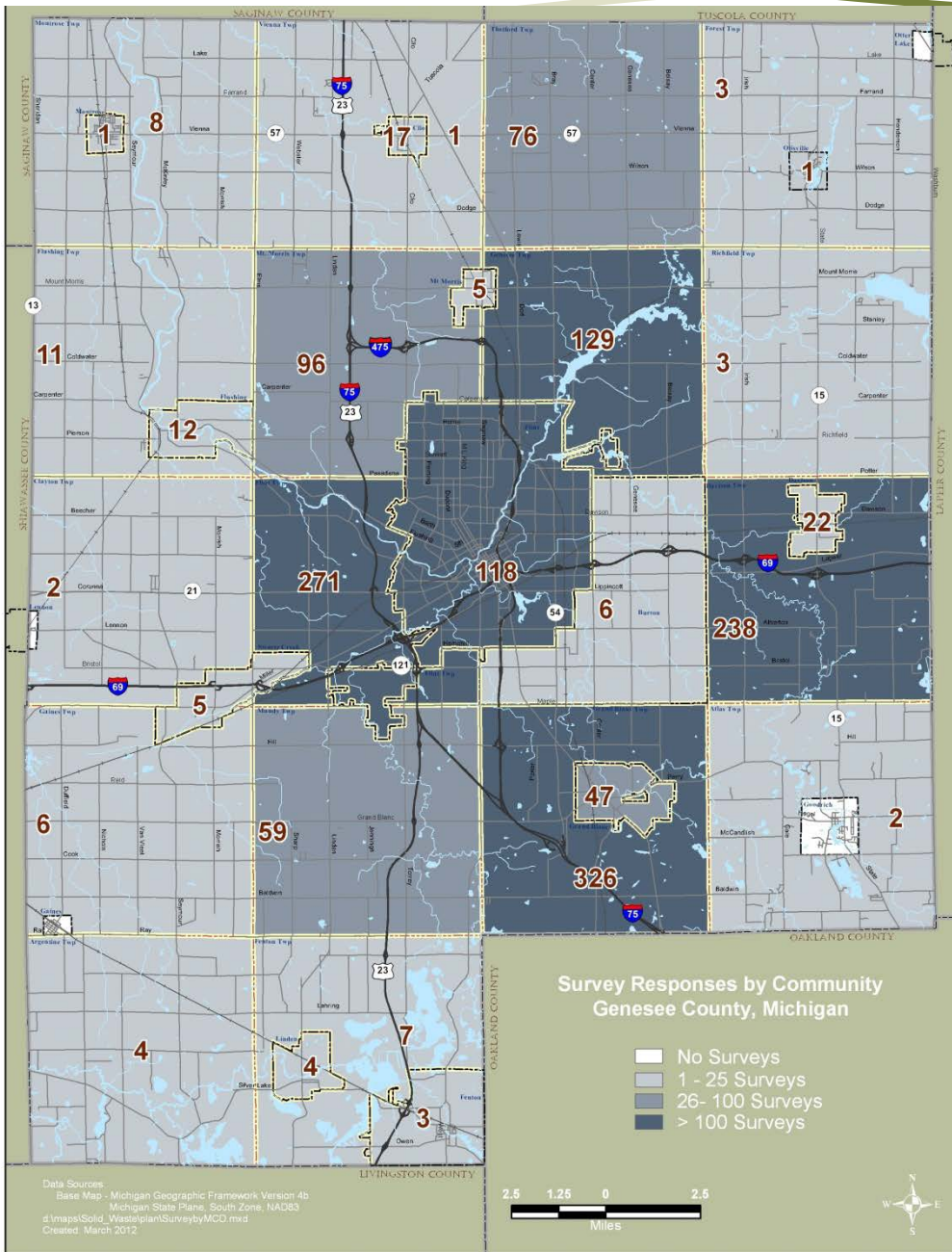


Section Introduction

The following section of the plan takes a closer look at the needs of the solid waste system in Genesee County. A public survey was conducted to gain an overall perspective of how satisfied residents are with their solid waste and recycling services in their own communities; the results of the survey were summarized and analyzed.

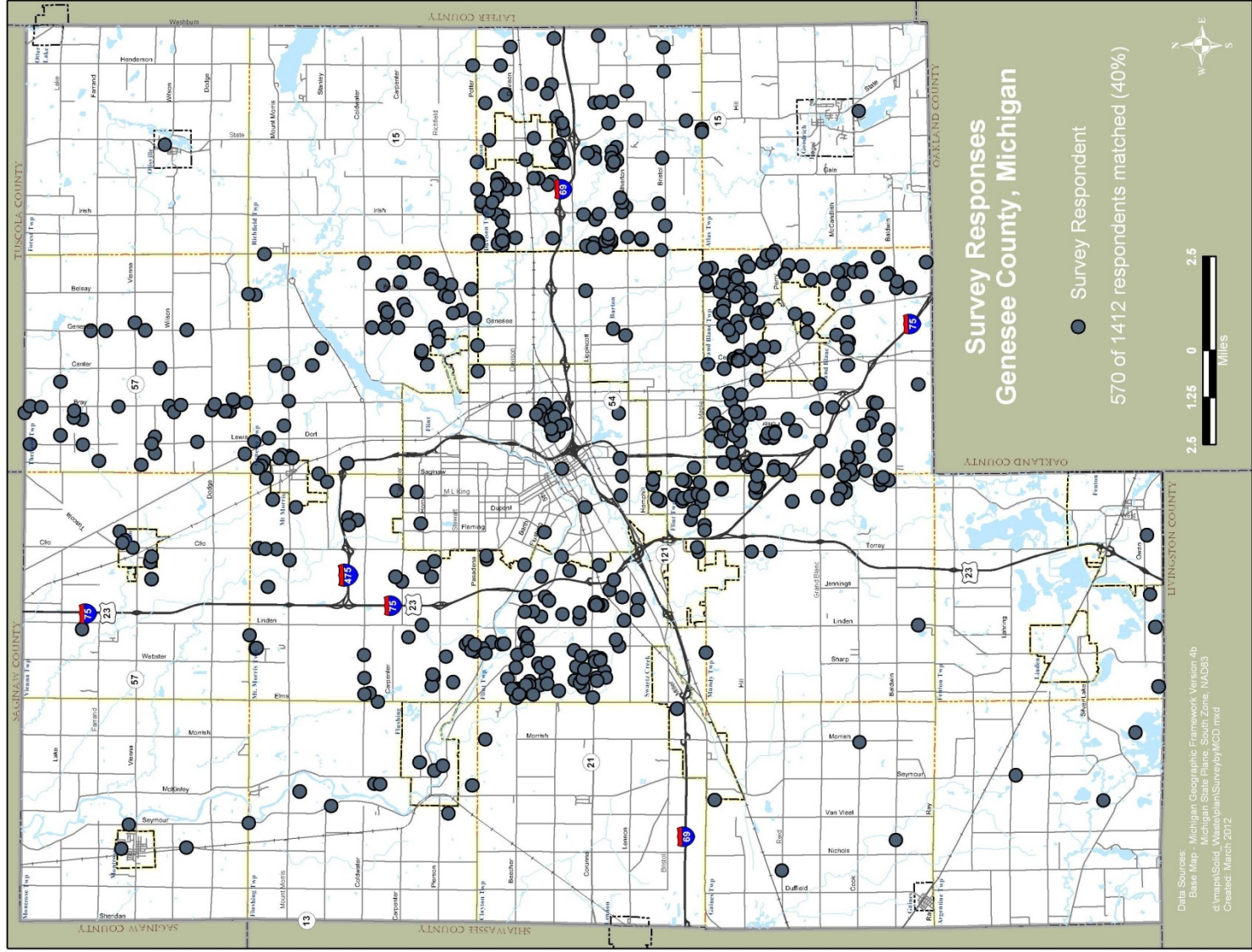
In addition to the public's opinion of the solid waste system, the Solid Waste Management Planning Committee participated in a working session with staff to identify the weaknesses of our current system and ideas of how we can play off of our strengths to arrive at a more efficient and sustainable solid waste system. This section summarizes the working session and provides a priority list that will later help identify goals for this plan.

Technical Report 2 also lists an inventory of the solid waste disposal areas in Genesee County. In combination from this inventory and previous data collection analysis, landfill capacity was projected. The landfill capacity will help in determining where we can expect our solid waste system to be in the next 25 years.



Public Needs Assessment

In order to gain a public perspective about the effectiveness of our solid waste system, a survey was sent out to the GCMPC public participation list (which contains 1,350 people). It was also sent out to all local units of government to distribute and to all of the residents who are signed up for Rewards for Recycling in Genesee County (which contains about 50,000 people). The survey asked for the respondents to note which community they resided and then proceeded with general questions about solid waste and recycling services. For incentive to complete the survey, GCMPC offered five \$100 gas cards to a selection of randomly chosen respondents. In total, staff received over 1,400 survey responses. The majority of overall responses were received from Grand Blanc Township, Flint Township and Davison Township. Cities with the most responses included Grand Blanc, Flint, and Davison.

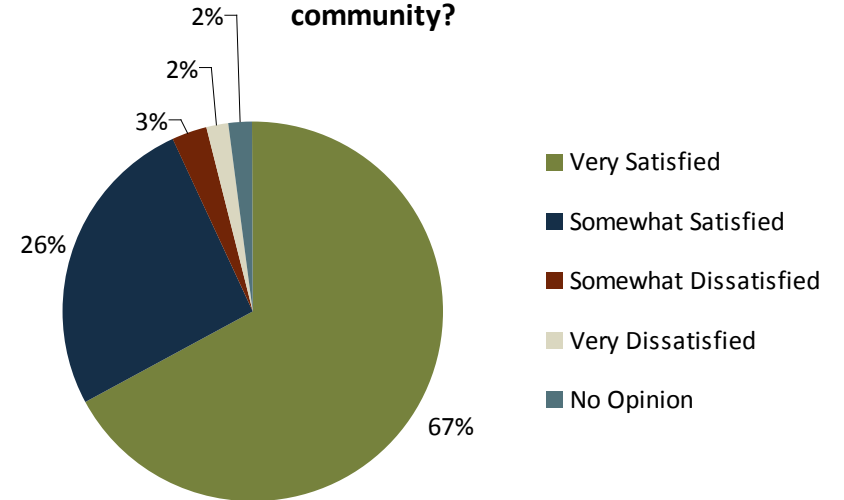


When asked how satisfied residents were with solid waste services in their community, 67% noted they are very satisfied, while just 5% are somewhat or very dissatisfied. Over 95% of respondents were aware of recycling services or opportunities offered in their area and similar numbers were reached when prompted how satisfied respondents were with recycling services in their community; 67% responded they are very satisfied.

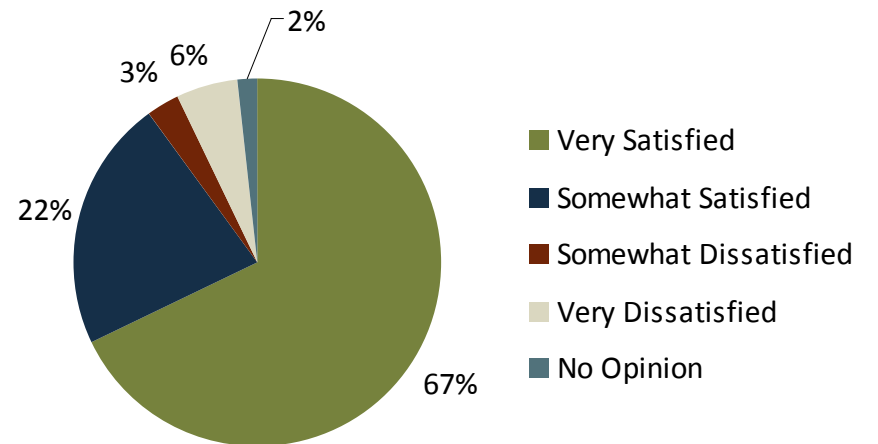
It is important to note here that the majority of respondents are also from communities that not only have curbside recycling but also have very active recycling programs available to the residents. Grand Blanc Township, for example, participates in the Rewards for Recycling program that rewards residents with coupons to various entertainment and restaurant venues when they recycle.



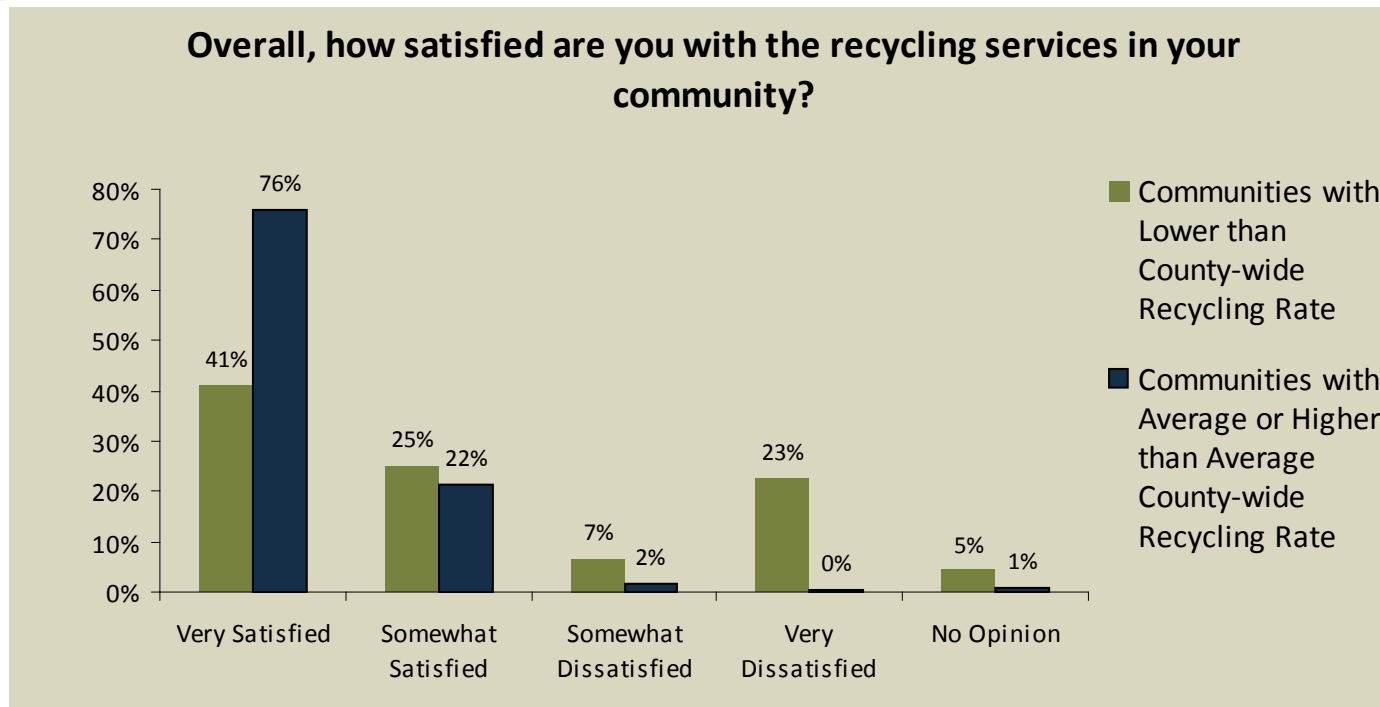
Genesee County Responses:
Overall, how satisfied are you with the solid waste services in your community?



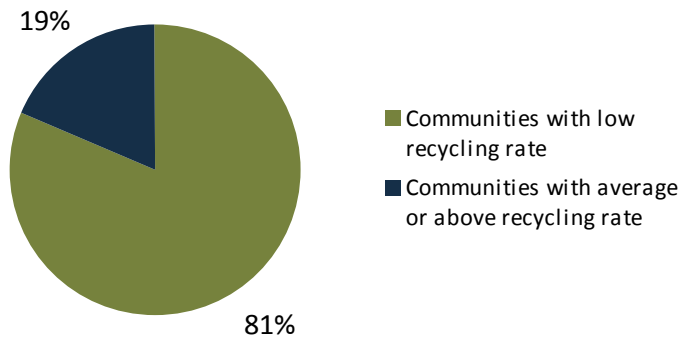
Overall, how satisfied are you with the recycling services in your community?



Overall, how satisfied are you with the recycling services in your community?



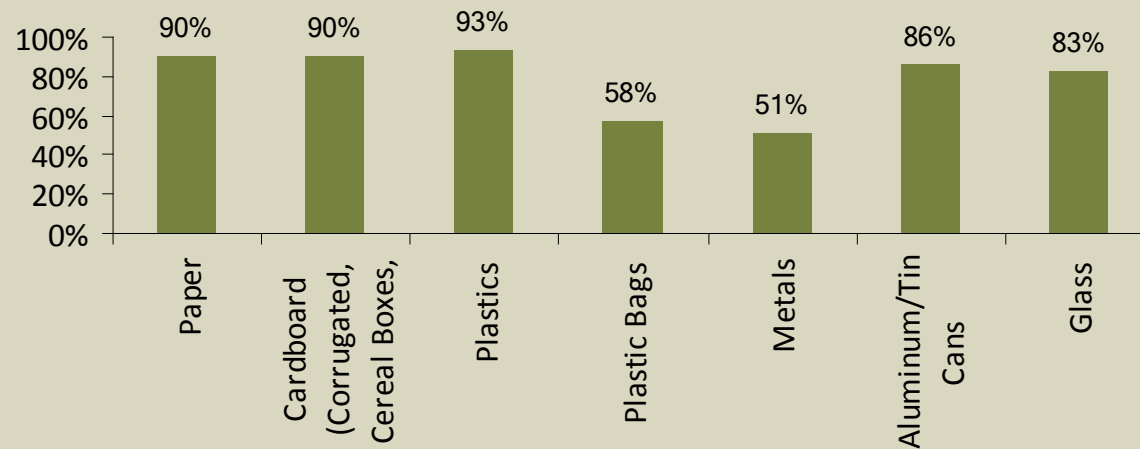
Communities somewhat or very dissatisfied with recycling services



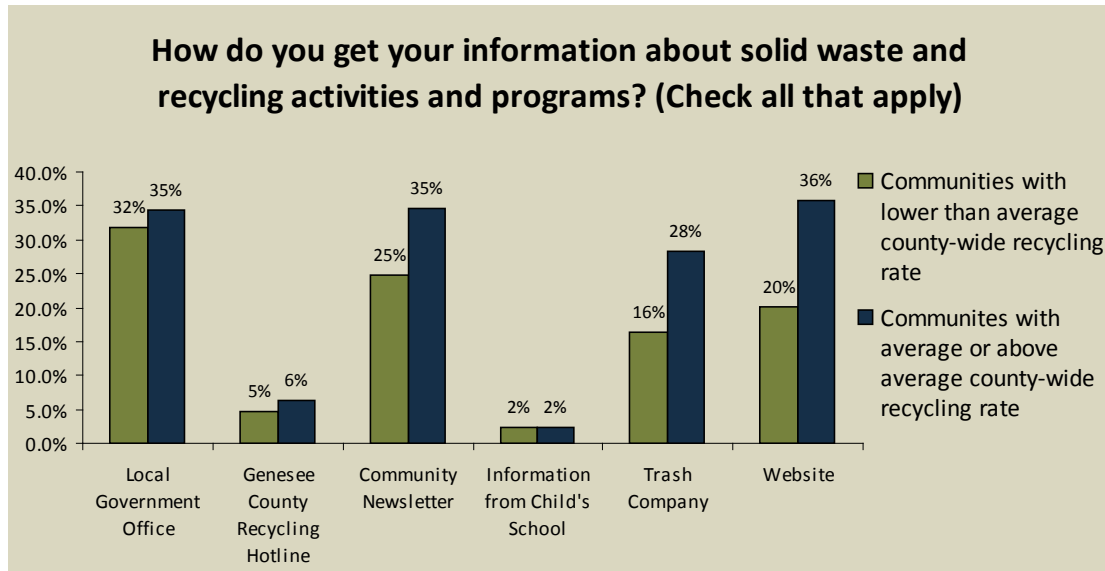
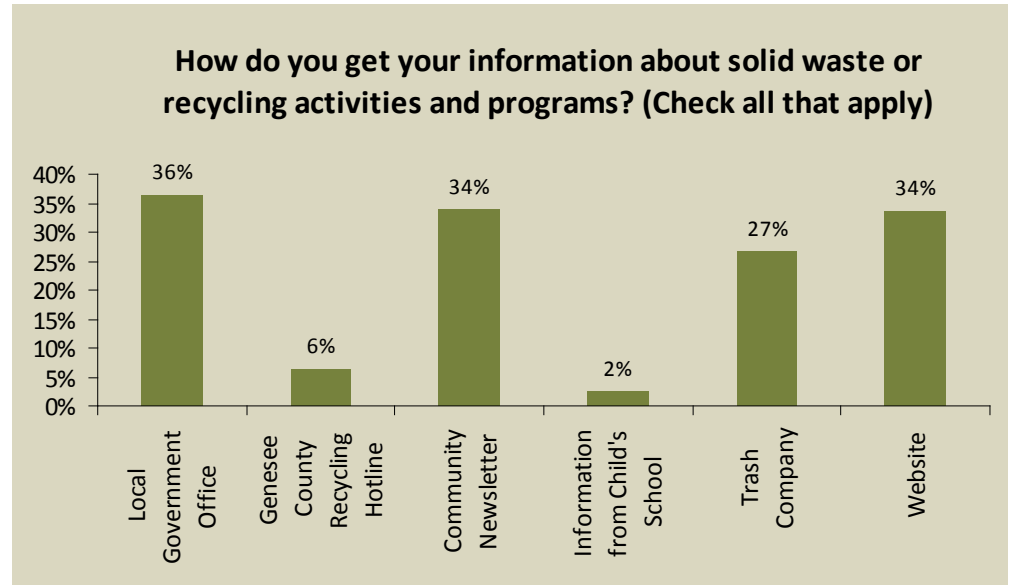
In order to gain a more valuable perspective on communities that may not have access to recycling or do not recycle as much, staff broke the communities out into those with a lower than average recycling rate (6% in the county) and those with an average or above recycling rate. The data here is clear that those with higher recycling rates in their communities are more satisfied with their services offered. 30% of communities with a lower recycling rate were somewhat or very dissatisfied with their recycling services. The majority of these respondents were from the City of Flint where there is no curbside recycling present.

For those respondents that indicated they do recycle, they were asked what types of items they recycle on a regular basis. Plastics, cardboard and paper were all indicated as being the majority of items that people recycle in Genesee County. While metals and plastic bags are less common items that are being recycled among residents; this may be due in part to curbside recycling not taking certain items in most communities, as well as lack of education on how or where else to recycle those particular items. While over 96% of respondents indicated that they recycle, for those that do not participate, the most prevalent reason was because of a lack of education or information available to them. The other popular reason for not recycling by respondents is because it is inconvenient or takes too much time. For those that don't recycle at all or don't recycle as much as they would like to, it may be key to implement incentives or rewards for recycling for those communities that don't offer them. Almost 100% of the respondents indicated that they would continue to or start to participate in recycling if those kinds of incentive programs were offered to them.

Please indicate which of the following items you recycle on a regular basis. If you don't recycle, please skip this question. (Check all that apply)

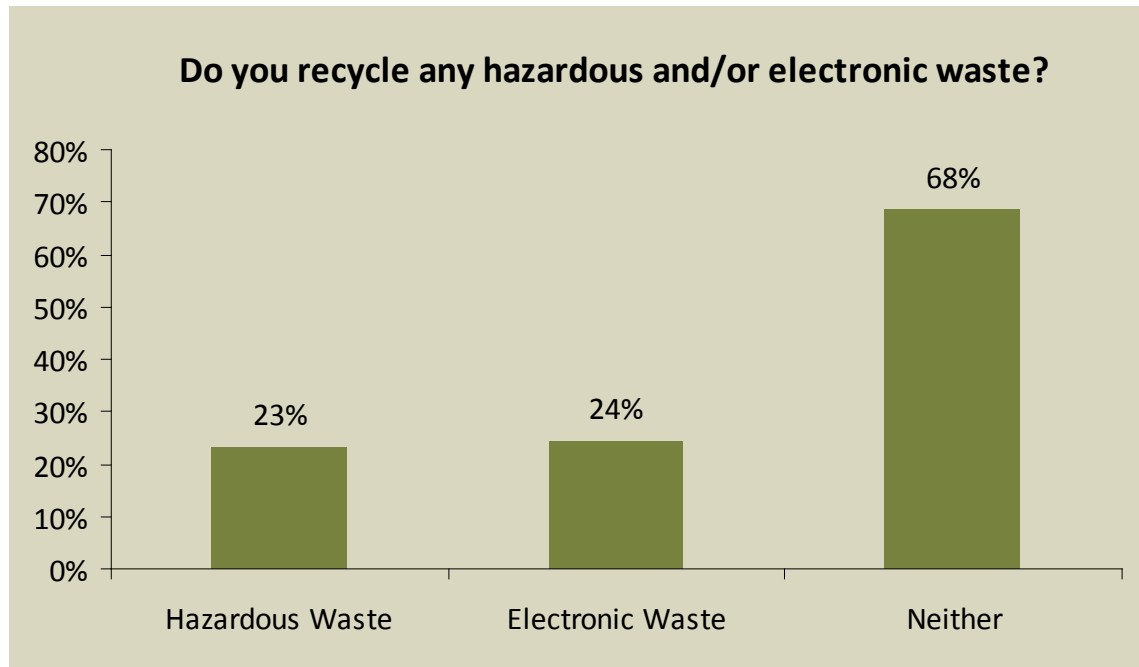


It is important to find out how and where people are getting their solid waste and recycling information so we can notify those sources with suggestions for improvement on how they may want to give more detailed information about programs they offer. The majority of respondents received their information through their local government office, community newsletter or trash company. For those that get information from a website, the majority of those respondents indicated that they check their local community website or trash company website.

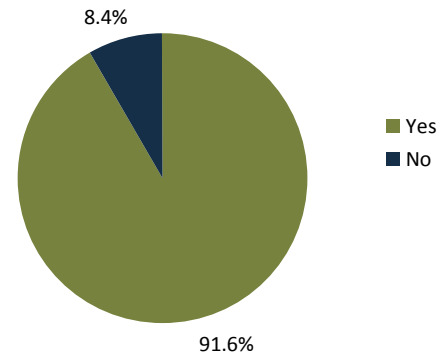


When the data was split into communities below, at or above the county average recycling rate of 6%, it was found that even those communities that don't recycle as much still go to their local government office for information. The data also suggests that those communities that have a below average recycling rate may not offer the same level of information in their newsletters or on their websites.

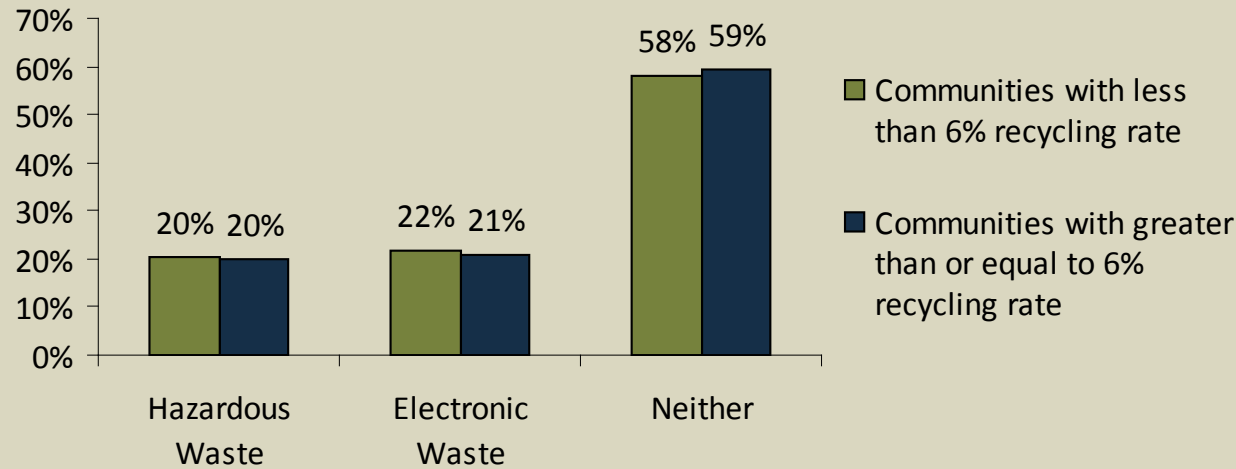
Surprisingly, almost 70% of the respondents indicated that they do not recycle hazardous or electronic waste. Genesee County does offer 2 hazardous waste collection days every year for residents, with 3 locations throughout the county. With this information, however, it is clear that what is offered currently needs to be revisited. Perhaps more collection days could be offered throughout the year or possibly add a permanent household hazardous waste collection site for residents to drop off their items. When prompted if a free-drop off for old latex paint was offered to residents of Genesee County and whether or not they would use it, over 90% indicated they would use this drop-off.



If a free drop-off for old latex paint was offered, would you utilize it?



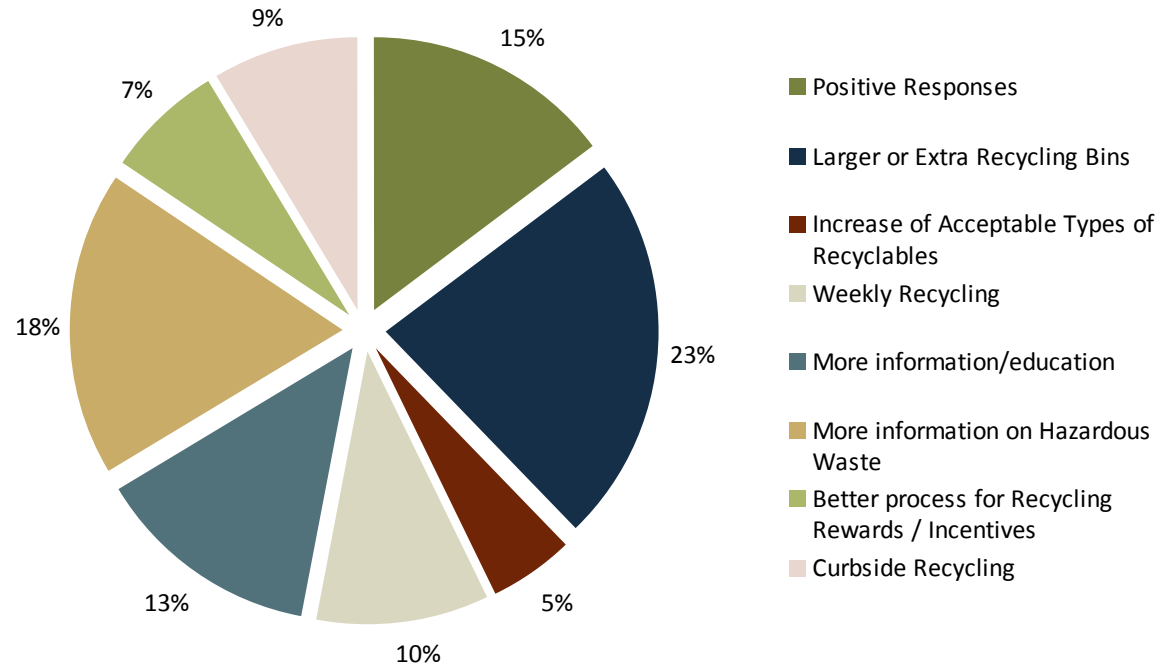
Do you recycle any hazardous/electronic waste?



Even when the survey data was broken out by recycling rates, the responses were almost identical whether the community was superior in recycling or not. It is evident that from this data, it can be assumed that the majority of households in Genesee County do not recycle hazardous or electronic waste. Again, this information insinuates that barriers to recycling hazardous or electronic waste could be due to the amount of collection days held per year not being sufficient. This process can also be seen as time consuming and the collection days (since there are only 2) could be held on days where people are on vacation or unable to attend. The data also recognizes that even avid recyclers do not want to go out of their way to drop off items. Some comments and feedback received from the survey indicated that people would like to recycle these items, but they would like it if the items could be picked up from their curb on a quarterly basis.



Feedback and Suggestions for Solid Waste Services in Genesee County



Almost 600 responses were given for the comments portion of the survey. Staff went through each comment and determined many similarities; over a quarter of the comments suggested that their communities should offer larger or extra recycling bins to accommodate for more items and make it easier to take the bin out to the curb (assuming the bin has wheels and a lid). Respondents also indicated that overall they would like more information or education on how or what to recycle, as well as more information on recycling hazardous waste. Some respondents even indicated that they would like to be able to have some hazardous waste items or electronics picked up curbside. About 16% of the responses were very positive in nature and commended their local communities for the current services they offer. Interestingly, some of those respondents that live in communities with Rewards for Recycling indicated that they would like to see the program revamped to make it easier to get rewards or receive better rewards. About 12% of those that made comments wanted to see their community go from bi-weekly to weekly recycling so they can increase their recycling efforts.

Are there Benefits to Larger Recycling Bins?

23% of respondents would like to see an increase in their recycling bin size. The average size of a small bin is anywhere between 14 and 18 gallons, while the larger bins vary in size from 50 to 96 gallons in size. In order to realize what the total benefits of having bigger bins for the county, we wanted to estimate how much more waste could be diverted from the landfills if residents were given larger capacity bins. The first step in this process was eliminating communities from the recycling average that already utilize the larger bins (City of Davison and Swartz Creek). The City of Flint was also factored out of the equation because they are the only community without curbside recycling and therefore skew the overall recycling weight averages. Without these communities, the average amount of waste being recycled per household per week is 6.23 pounds. The total amount of waste that is generated per week is 4,646,363 pounds.

According to the EPA from their *Municipal Solid Waste Generation, Recycling and Disposal in the United States: Facts and Figures for 2010*, that of MSW generated, 4.6% was glass, 12.4% were plastics and 28.5% was paper or paper boxes. These percentages were cross referenced with volume-to-weight conversions that were taken from a Massachusetts study which contains weights taken from the National Recycling Coalition and the EPA. The weights were converted to pounds per gallon.



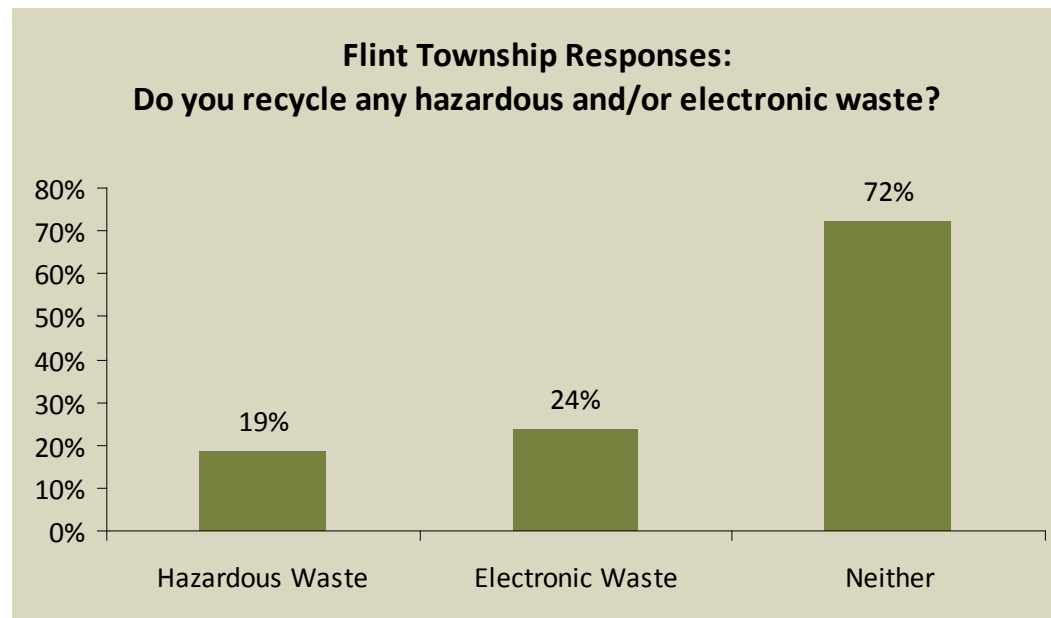
So it was assumed as a best case scenario, based on the EPA report, that about 45% of the total waste generated in Genesee County could be recycled with curbside recycling (or 2,090,863 lbs/week or 19.3 lbs/household/week). The percentages of materials from the EPA were applied to the total waste generation to get pounds per week of that particular material and the space needed to accommodate the recycling. It was found that 15.71 gallons per household per week could be filled using this best case scenario. This data does not factor in spikes in waste (such as during holidays), but rather assumes the average. As such, there are several weeks during the year that likely see a larger influx of potential recyclables. Supplying larger bins to communities in Genesee County would help to remove current barriers in recycling, providing a more convenient, easier way to recycle.

Larger bins would particularly be beneficial to communities that only receive bi-weekly recycling who could be putting as much as 31 gallons of recyclables in their bin.



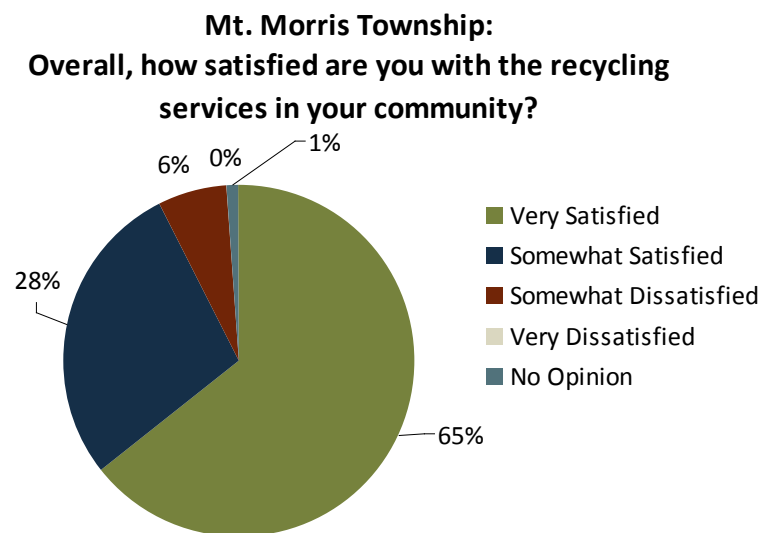
Flint Township

Flint Township had over 270 respondents to the survey, where 98% are somewhat or very satisfied with their recycling services in their community. Even though the township has almost a 9% recycling rate, when asked if they recycle any hazardous and/or electronic waste, 72% indicate they recycle neither which is higher than the county average for not participating in recycling these items. Residents indicated that they would like to have more or larger bins for recycling their curbside items along with a list of items that are acceptable. Respondents also commented that they appreciate the e-mails they receive that keep residents updated on solid waste and recycling services in their area.



Mt. Morris Township

With a community that very recently began curbside recycling on a biweekly basis, they had almost 100 people respond to the survey. 99% of those respondents are somewhat or very satisfied with their solid waste and recycling services that are offered in their community. Those that did provide comments suggested that their recycling be picked up on a weekly basis and that the bins should be larger to accommodate more material. Many respondents in Mt. Morris Township also mentioned how thrilled they are to finally have recycling services offered in their area.

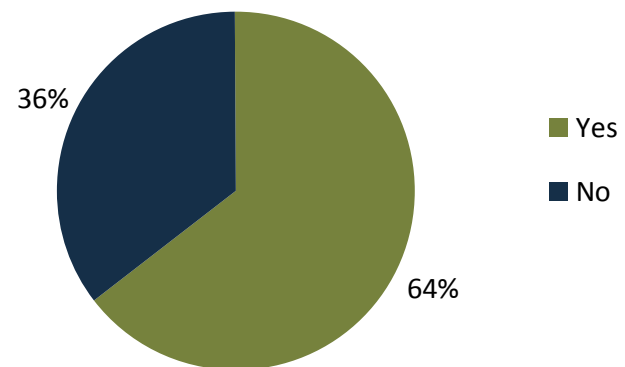


City of Flint

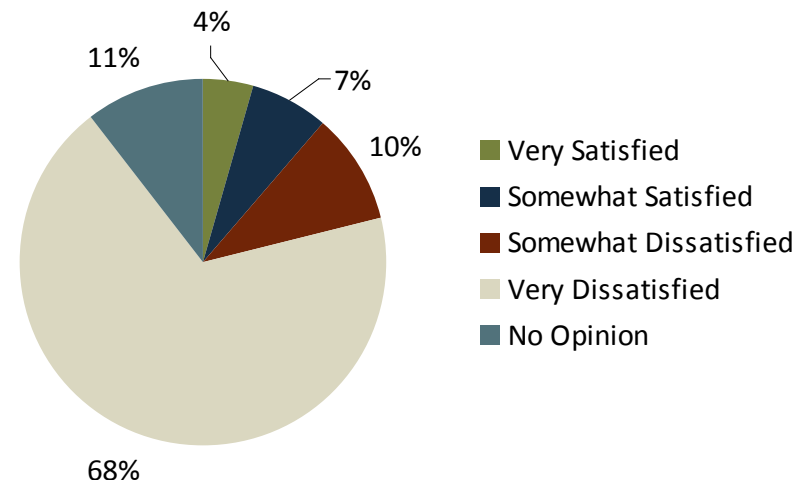
72% of respondents that said that they were dissatisfied with the recycling services in their community were from the City of Flint. Only 64% of respondents from the City of Flint are aware of recycling opportunities in their area (drop-off locations) as compared to 95% in the overall survey. Overall, 78% of City of Flint survey respondents are somewhat or very dissatisfied with their recycling services in their community. As compared to Genesee County (96%), 53% of City of Flint respondents indicate that they recycle. The rest of the 47% that do not recycle indicate the main reason as being that it is not offered locally. While other responses indicate that recycling is inconvenient and they need more information on how or where to go. As similar to the survey from all of Genesee County, 99% of City of Flint respondents to the survey say that an incentive curbside recycling program would prompt them to continue to recycle or begin to recycle. 35 respondents also made comments that they would like to see curbside recycling in Flint. Here are a few of the responses:

- ❖ “Private waste removal [should include curbside recycling]...every other city has it...”
- ❖ “I don’t know how it is funded, but I think it should be mandated nationwide. It is so irresponsible not to recycle.”
- ❖ “The City of Flint needs to have curbside recycling. This would make recycling much more convenient.”

City of Flint Responses:
Are you aware of the recycling opportunities in your area?



City of Flint Responses:
Overall, how satisfied are you with the recycling services in your community?



Public Needs Assessment Conclusions

One of the important factors of revitalizing our solid waste system comes directly from the responses and ideas of Genesee County residents. This survey allows us to gain a clearer perspective on how well communities are being serviced and where we can make improvements. The results indicate that overall, many communities are fairly satisfied with their services, but even those with higher than the county average recycling rates wish to see larger bins available to them and more information or education about services in their community. Another notable conclusion from this survey was the surprising amount of respondents that do not recycle hazardous or electronic waste, even those from communities that have some of the best recycling rates in the county. Comments received also reflect this data, as respondents would like more information about recycling these items and would like to have increased access to recycling hazardous or electronic waste.



Working Session

In collaboration with the Solid Waste Management Planning Committee (SWMPC), staff was able to analyze the current solid waste system through a visioning and P-SWOT (Perfect System, Strengths, Weaknesses, Opportunities and Threats) process that took place at the regularly scheduled SWMPC meeting on March 15, 2012. The goal of this process was to provide the committee with the opportunity to discuss the current issues of the solid waste system and how they envision the solid waste system in the future. This process will ultimately lead to the development of measurable goals for the Solid Waste Plan.

Work Session Procedure

The committee was divided into 4 groups of 3 people. Each group was then asked the following questions:



- a. When I say perfect solid waste system, what words come to mind?
- b. What are some of the strengths of the current solid waste system?
- c. What is the current solid waste system lacking?
- d. What are our opportunities with a revised solid waste system? What do you envision for the future of the system?
- e. What are some potential threats or opposition to these opportunities?

After the groups were finished with discussing and writing down answers, a presenter was selected from each group to place their answers up in front of the whole committee and provide an explanation. Once each group had presented their answers, each person was given 10 stickers to place on the answers that they felt should have the greatest priority. The stickers could be placed all on one answer in one category, or split up among various answers across all categories. After group members were finished with selecting their personal priorities, staff asked the collective group if they agreed with the priorities that were listed.

The following page indicates the responses that were given for each category that were given at least one priority sticker in the working session. Categories with the most priorities were Opportunities (37) and Weaknesses (27). These were followed by the Perfect category with 22 stickers, Threats with 19 and Strengths with 5 stickers. It is apparent from the prioritization process that there are numerous weaknesses in the solid waste system, but there are also ample opportunities available to turn those weaknesses into strengths.

(P)SWOT Analysis of Genesee County Solid Waste Management System

Perfect Idea of Waste System	Strengths	Weaknesses	Opportunities	Threats
Waste to Energy	It works / Easy	Enforcement / Accountability / Spotty Knowledge *	More opportunities for recyclables (not accepted curbside) / Expanded Markets *	Politicians / Current Contracts / Silos *
Cost Effective or Self-Funding	Reliability	Lack of efficient technologies / Material Recovery Facility *	Local or County Material Recovery Facility *	Lack of Education / Information *
Increase Closing Loop or Local Repurpose	Public Health	Metrics / Goals	Education *	Cost / Lack of Funding
Environmentally Sound	County Ordinance Fee	Hazardous Disposal Sites	Pay-as-you-Throw	Bad Actors / Irresponsible Companies
Odorless		Education	County Wide Recycling / County facility to coordinate services	
County-Wide Recycling		Ease	Common Plan throughout County	
Zero Waste			Linkage: Regional Planning with other Counties Demolition Recovery	

* Indicated as a top priority

Top Priorities

Material Recovery Facility

The prioritization process revealed that a Material Recovery Facilities (MRF), also known as Material Recycling Facility, or lack thereof in the county is a top priority. A MRF is a facility that takes in recyclable materials, separates them and prepares them for market distribution. MRF's are utilized to help reduce municipal solid waste that goes to the landfills and maximum the recycling potential.

MRF facilities vary in size and the amount of recyclables they can handle per day. A medium sized facility in the County would be able to handle between 10 and 100 tons per day. According to the *Material Recovery Handbook* (Recycling Marketing Cooperative for Tennessee, 2003), a medium sized MRF costs anywhere between \$1 million and \$3 million to construct, plus about an additional \$150,000 for equipment. Operational and maintenance costs for a medium sized MRF would cost over \$1 million per year based on tons of recyclables taken in per year (*Handbook: Material Recovery Facilities for Municipal Solid Waste*).

Examples of successful MRF's in Michigan are in Kent County, Emmet County and Oakland County. The \$11.5 million Kent County Recycling Facility is a 60,000 square foot building that processed over 23,000 tons (Kalamazoo brings in 20 tons per week) of recyclables in 2011. This facility takes in single stream recyclables and is supported by funds from the landfills, not the tax payers. The facility made a profit of \$800,000 in 2011. Kent County believes that their success comes from switching over to single stream processing which is more economical, as well as providing curbside recycling to the residents and implementing a Pay-as-You-Throw program. Emmet County also oversees a successful recycling system, which includes operation of a publicly-owned MRF. Their MRF costs are covered by the income of the sale of recyclables and allocation of funds from their Transfer Station. Neighboring counties have a Millage fee that help pay Emmet County to process their recyclables. In Oakland County, the Resource Recovery and Recycling Authority of Southwest Oakland County (RRRASOC) used private capital to build a MRF in 1994 for \$5.6 million. The 51,000 square foot facility is owned by RRRASOC and operated by a private company, ReCommunity Recycling. The facility recently switched over from dual-stream to single-stream recycling

and processes approximately 25 tons per hour or about 5,000 tons per month. Only 14% of the volume of recyclables comes from the participating RRRASOC communities, with the remaining recyclables coming from outside the authority area, secured by ReCommunity Recycling.

A municipal MRF would enable a large influx of recyclables to be processed in the county. Currently, waste haulers take the majority of recyclables collected to locations in southeast Michigan. This would ultimately save money on transportation costs, as well as bring in more dollars into Genesee County for the use of the facility, the sale of recyclables and materials, and would lead to the creation of jobs. In considering recommending implementation of a MRF in Genesee County, it is also important to keep in mind the costs associated with constructing and maintaining such a facility. Taking this into account, a public-private partnership could possibly be the best case scenario, where the county would own the facility and a private company would man the day-to-day operations. MRFs also require a steady stream of materials coming into the facility for the process to function in an efficient and economical way. With the largest municipality in the county not yet participating in curbside recycling, there is a significant gap in potential recyclable tonnage. If a MRF were to be implemented in the county, recyclables from outside the county and the City of Flint would be crucial factors of its success if they were to integrate curbside recycling into their solid waste services.

Enforcement / Accountability

The current Genesee County Solid Waste Ordinance and associated fees do not account for adequate enforcement of solid waste activities in the county. The ordinance does not specify other than “the administrator shall enforce the provisions of the Ordinance” how enforcement should be done in the county. There is also a lack of funding available to properly and consistently enforce the Ordinance among waste haulers.

Kent County, for example, has contracts with their waste haulers to bring waste to the Waste to Energy facility; otherwise they expect to face penalties in fines. The county has one person assigned to enforcing the ordinance among these haulers. In Emmet County, they have designated approximately \$2,000 yearly for enforcement purposes; there is a County Ordinance Enforcement Officer who handles the cases, as well as the Emmet County

Sheriff. Monroe County also has designated a one half time Sanitarian to complete inspections at solid waste facilities.

Politicians / Current Contracts


Local units of government in the county have quite a few separate contracts with waste haulers, which results in communities having different services, with some communities paying more than others. If locals were to enter into a more regional contract, they would have the leverage to receive more services and/or to lower their contract costs as well.

Education

Committee members stressed the importance of education in our solid waste system and moving towards 100% recycling participation. While we have seen some successes of recycling education in the county, there are plenty of opportunities to make improvements.

Since 2006, GCMPC has provided education and promotion through a recycling awareness campaign. A large portion of this campaign is devoted to educating children through the school recycling education program. GCMPC staff schedules presentations with elementary schools throughout the county and informs children on why recycling is important, as well as how and where to recycle. Part of this education effort is accompanied by the School Recycling Challenge where schools compete over the course of several weeks to see who can recycle the most and receive awards if they are successful.





In addition to educating children, GCMPC provides outreach through our website, hotline and at events throughout the year. Through the public needs assessment survey, staff has found that the majority of information residents receive is from their own community or waste haulers; very few people indicated that they utilize our website or call the recycling hotline. Targeting the adult population is a crucial step to reaching greater participation rates, so more information should be filtered through community websites and newsletters.

A few successful recycling programs in Michigan that the county may want to consider duplicating includes the Resource Recovery and Recycling Authority of Southwest Oakland County (RRRASOC). This authority services 8 member communities and provides public education through MRF tours, flyers, videos and brochures. The Southeastern Oakland County Resource Recovery Authority (SOCRRA) has a similar program to RRRASOC, which services 12 communities and conducts outreach through tours, videos, presentation, activity books, games, flyers and brochures.

As part of the PSWOT analysis, staff took a look at the prioritized items that came out of the working session. When looking at revitalizing the solid waste program in Genesee County, it is crucial to consider the different aspects of a balanced and sustainable system. Staff categorized the prioritized answers into three categories: Environmental, Social and Economical. Each of these sub categories play a vital role in a successful solid waste system and help ensure that each of the priorities is helping to achieve this balanced system.



Evaluation of Deficiencies and Problems

The current solid waste system has been evaluated for potential drawbacks specifying where improvements could be made. Based on the previously mentioned SWOT chart and analysis, as well as our data collection efforts, the following problems with Genesee County's solid waste system were identified and then explained how they could be addressed with specified goals:

1. Recycling

As part of the attempt to correctly identify the efforts of recycling in our community, it is evident that there are a few shortfalls in the residential and commercial sectors. While the national average diversion rate in 2009 was 35%, numbers in Genesee County reflect a far different story. In 2005, our residential recycling rate was only 3.5%. Five years later, Genesee County has seen little improvement in its recycling rate, with residential diversion rising by only 13% (to a 6% recycling rate).

Goal Addressing this Issue: Direct attention towards increasing the diversion rate through promotion, education and awareness, as well as create incentive programs, such as Pay-as-You-Throw that will help decrease the disposal rate in the county. It should also be recommended that the City of Flint, the largest municipality and producer of the most waste in the county, implement curbside recycling as part of their waste service program. According to our waste generation projections, residential waste will rise over the next 25 years. However, focusing services and programs to the residential sector will help to alleviate waste generation in the county. A recycling goal in the plan should also be directed towards recommendation of researching and possibly implementing a Material Recycling Facility in Genesee County.



2. Education

The education aspect of the Solid Waste program has always been crucial to delivering and promoting messages and events to the general public. A large part of the education and awareness program is conducting recycling presentations at schools throughout Genesee County so that children begin to learn at a young age the importance of recycling in their communities. Staff also promotes events such as the biannual Household Hazardous Waste collection days, as well as being present at local conventions and events to make our program aware to citizens. Despite all of these positive efforts, the education program lacks the overall strength it needs to reach more people, particularly at the adult age. According to the Genesee County Recycling Assessment, the average participation rate in recycling is 39% (with an average recycling rate of just 6%).

Goal Addressing this Issue: To address the issue of education, the county will need to further expand the education program to reach a greater population of adults. This effort could include providing each household with a sticker to place on their bin that will be a reminder of what can be recycled. Additional efforts should be made to educate county residents of Household Hazardous Waste (HHW) and Electronic Waste disposal opportunities to get more people to participate. As shown through the public needs assessment survey, the majority of residents get their information through their local waste hauler or community. Thus implementing standardized and current information on those local websites and newsletters would provide the public with updated information on what kinds of materials they can recycle as well as provide event information, such as the HHW collection days.

3. Data Collection

With the current and past Solid Waste Management Plans, it is evident that the commercial data collection is a difficult data set to obtain and does not provide the same accuracy that we find with our residential data collection methods. This affects the rest of the planning process by not being able to provide the most accurate outlook into capacity needs and programs needed to improve recycling with businesses in the county.

Goal Addressing this Issue: As part of the next plan update, the commercial data collection methodology should be addressed as staff looks for ways to improve this process. This may include reviewing methodologies in other states and finding a cost-efficient way to collect, review and analyze obtained data.

4. Coordination

Currently, the local units in Genesee County contract with various haulers at different prices and often times receive different services (i.e. some don't receive recycling; some communities have implemented Pay-As-You-Throw or Rewards for Recycling, etc.). This results in more trips by haulers to communities in close proximity, as well as higher costs for some communities by not sharing the same contracted services. There is also no coordination with the collection of commercial waste and residential waste; local ordinances specifying that businesses contract with the same hauler as the municipality would result in a more standardized and cost-effective program.

Goal Addressing this Issue: In an effort to promote cost-effectiveness for all communities, it is suggested to encourage communities to collaborate for hauling contracts that will promote more streamlined solid waste and recycling services.

5. Enforcement

Accountability of waste haulers in the county has not been tracked consistently due to a limited Solid Waste budget and staff time. Without proper enforcement, waste haulers will not be charged with violations when they occur and held accountable for their actions. More effective enforcement will help to ensure a safe and healthy environment for the businesses and residents of Genesee County.

Goal Addressing this issue: Alter the Ordinance to specify how enforcement will be completed on a consistent basis. Enforcing the Ordinance will require designated staff time and should become a Solid Waste budgetary item.

Solid Waste Area Summaries

There are 3 landfills in operation that are located in Genesee County (Brent Run, Citizens Disposal and Richfield Landfill). All landfills accepting waste in and out of the County are privately owned. GCMPC requested that all facility owners of disposal, transfer stations and recycling facilities complete description surveys for the Plan amendment. GCMPC has requested surveys and reviewed those corresponding descriptions. The Venice Park landfill in Shiawassee County is included in this plan as well; about 20% of Genesee County's waste is exported there, so the facility description is provided for purposes of showing that Genesee County will continue to be able to export waste to that location over the next 20 years. Also listed as part of the facility descriptions are recycling and transfer stations; in total there are four of these privately-owned facilities located throughout the county.

Facility Description Definitions

Total Area of a Facility Property - the entire property the disposal area owns.

The Total Area Sited for Use - the acreage the County is authorizing to be permitted.

The Total Area Permitted - the acreage that has gotten a permit from the DEQ (this would include, closed cells, operating cells, and areas that have not yet been excavated but have been permitted).

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Brent Run Landfill

County: Genesee Location: Town: T9N Range:R5E Section(s): 23

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: _____

Public Private Owner: Waste Connections Inc.

Operating Status (check):

Waste Types Received (check all that apply):

- Open
- Closed
- Licensed
- Unlicensed
- Construction Permit
- Open, but Closure
- Pending

- Residential Recycling
- Commercial Recycling
- Industrial Recycling
- Construction & Demolition
- Contaminated Soils
- Special Wastes*
- Other: _____

*Explanation of special wastes, including a specific list and/or conditions:

Non-hazardous, non-regulated solid waste (soil, paint filters, etc.)

Site Size:

Total area of facility property	<u>543.89</u>	acres
Total area sited for use:	<u>243.17</u>	acres
Total area permitted:	<u>102.77</u>	acres
Operating:	<u>89.99</u>	acres
Not excavated:	<u>12.78</u>	acres
Current capacity:	<u>4,330,758</u> <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed	
Estimated lifetime:	<u>4.2</u> years	
Estimated days open per year:	<u>286</u> days	
Estimated yearly disposal volume:	<u>1,030,290</u> <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed	

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	12,727	megawatts (2010)
Waste-to-energy incinerators:	NA	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Waste Management of Michigan / Venice Park Recycling and Disposal Facility

County: Shiawassee Location: Town: Range: Section(s):
T7N R4E 26-27

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: _____

Public Private Owner: Waste Management of Michigan

Operating Status (check):

Waste Types Received (check all that apply):

- Open
- Closed
- Licensed
- Unlicensed
- Construction Permit
- Open, but Closure
- Pending

- Residential
- Commercial
- Industrial
- Construction & Demolition
- Contaminated Soils
- Special Wastes*
- Other: Solidification Operation

*Explanation of special wastes, including a specific list and/or conditions:

Asbestos, Medical Waste

Site Size:

Total area of facility property	<u>346.97</u>	acres
Total area sited for use:	<u>208.4</u>	acres
Total area permitted:	<u>208.4</u>	acres
Operating:	<u>96.7</u>	acres
Not excavated:	<u>81.3</u>	acres
Closed:	<u>30.4</u>	acres
Current capacity:	<u>20,900,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed
Estimated lifetime:	<u>17.4</u>	years
Estimated days open per year:	<u>281</u>	days
Estimated yearly disposal volume:	<u>923,880</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds cubed

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	6.4	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Solid Waste Processing Plant

Facility Name: Mid-Michigan Demolition Recycling Facility

County: Genesee Location: Town: Range: Section(s):

Map identifying location in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: _____

 Public Private Owner: Mid-Michigan Recycling, L.C.

Operating Status (check):

Waste Types Received (check all that apply):

- Open
- Closed
- Licensed
- Unlicensed
- Construction Permit
- Open, but Closure
- Pending

- Residential
- Commercial
- Industrial
- Construction & Demolition
- Contaminated Soils
- Special Wastes*
- Other: _____

*Explanation of special wastes, including a specific list and/or conditions:

Site Size:

Total area of facility property	<u>3.7</u>	acres
Total area sited for use:	<u>3.7</u>	acres
Total area permitted:	<u>3.7</u>	acres
Operating:	<u>3.7</u>	acres
Not excavated:	_____	acres
Current capacity:	<u>0</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed
Estimated lifetime:	<u>20</u>	years
Estimated days open per year:	<u>0</u>	days
Estimated yearly disposal volume:	<u>0</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yds cubed

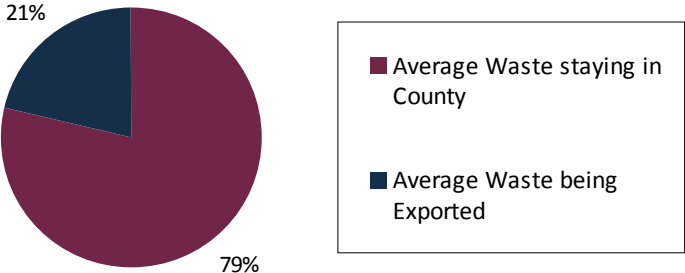
(if applicable)

Annual energy production:	
Landfill gas recovery projects:	megawatts
Waste-to-energy incinerators:	megawatts

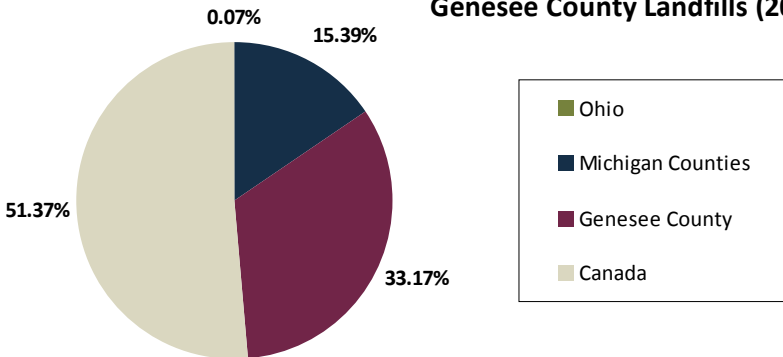
Landfill Capacity

Landfill capacity is determined by the estimated amount of waste that enters landfills (from Genesee County as well as imported waste from outside the county) along with the total area that is permitted for use. Currently the 3 landfills in Genesee County have a combined estimated lifetime of capacity of 20 years. This capacity accounts for waste that is not only coming from Genesee County, but waste that is being imported into the county from Michigan counties, Ohio and Canada. While almost

Genesee County Waste in Landfills versus Exports (2006-2010)



Percentage of Average Waste in Genesee County Landfills (2006-2010)



80% of Genesee County waste stays in our landfills, imported waste still accounts for approximately 67% of total waste entering the county landfills which indicates that the amount of waste that Genesee County generates and sends to our own landfills is not the sole indicator of capacity. Landfill capacity, instead, is mostly driven by the waste market, where importing waste is a driver of a successful landfill operation.

If the landfills were to only take Genesee County waste (not including waste that the county exports), the total combined lifetime capacity of the landfills would be somewhere between 40 and 60 years, depending on site area that is permitted, instead of 20 years which includes all the waste that is imported.

Genesee County Landfill Capacity

Landfill	Estimated Yearly Disposal Volume of Waste (CY)	Total Area (acres)	Area Sited for Use (acres)	Area Permitted (acres)	Current Capacity (CY)	Estimated Lifetime (Yrs)
Brent Run	1,030,290	544	243	102	4,330,758	4
Citizen's Disposal	1,200,000	314	237	109	17,400,000	15
Richfield	390,000	393	300	41	600,000	2
Total	2,620,290	1,251	780	252	22,330,758	20

Energy Production

According to the U.S. EPA, "Municipal Solid Waste (MSW) landfills are the largest producer of human-related methane emissions in the United States, accounting for approximately 17 percent of these emissions in 2009." However, these emissions are an opportunity for landfills to capture a significant source of energy that can be beneficial for the environment, generate renewable energy and create jobs and cost savings. Landfills can capture methane gas and convert it using a variety of different methods; in Genesee County, landfill gas is converted to electricity through a combination of various technologies, including internal combustion engines and turbines.

Each landfill in the county participates in Landfill Gas Recovery, producing thousands of megawatts of energy per year. Citizen's Disposal produces the most energy, with 40,500 MegaWatts/hr in 2010. In total, the landfills produced over 60,000 MegaWatts of gas in 2010 which would be enough to power over 6,000 households in Genesee County or more than the entire community of Mundy Township.

Starting in the last quarter of 2012, Brent Run and Citizen's Disposal landfills are both expecting a significant increase in energy production. Brent Run will be adding 2 new engines sometime in Fall of 2012, expecting a production of 45,000 MWhs per year.

Genesee County Landfill Annual Energy Production

Landfill	Annual Energy Production - Landfill Gas Recovery Projects (MWhrs/yr)	Estimated Number of Households Powered (per yr)*
Brent Run	12,727	1,273
Citizen's Disposal	40,500	4,050
Richfield	8,268	827
Total	61,495	6,150

*The average U.S. household used 11,496 kWh (or 11.5 MWhrs) in 2010 (U.S. Department of Energy Information Administration)

Solid Waste Disposal Collection Services

The corresponding chart on the following page identifies collection services by municipality as well as costs per household per month and is a key factor in analyzing potential coordination among local municipalities to combine contracts for cost-effectiveness. The City of Flint's cost per household per month for waste services is not the highest; rather the cost excludes curbside recycling. This leaves the City of Flint as the only municipality in the county to not offer this service.

If you take a look at the corresponding map (Solid Waste Disposal and Collection Services), it is apparent that there are discrepancies among municipalities and their contracts with collection companies. Numerous townships and cities that are within their boundaries utilize different waste haulers. If these municipalities work together, they could arrive at less expensive contracts with their haulers, resulting in services that are more streamlined all across the county.

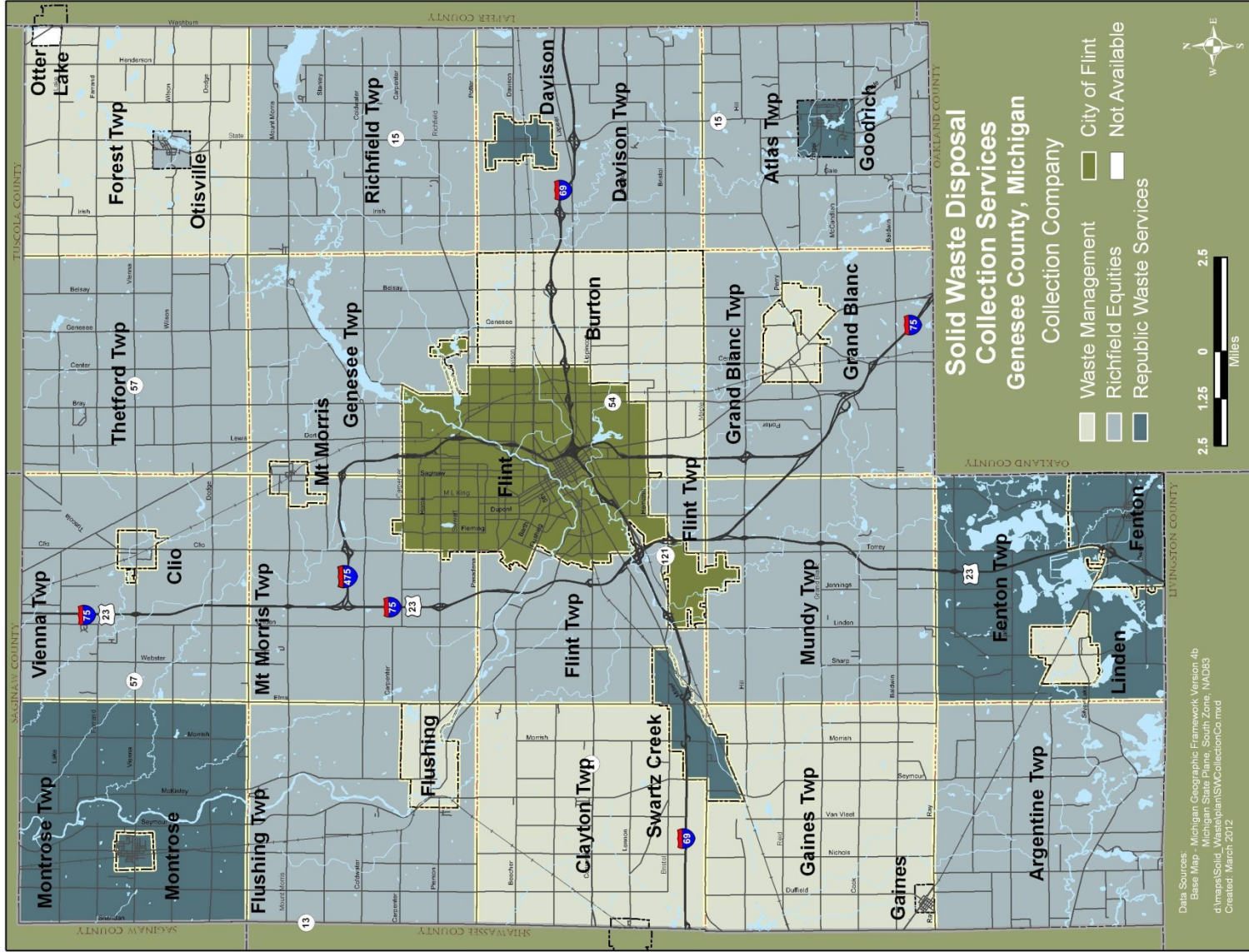
Upon initial review, it was noted that the following communities may see cost savings and expanded services if they combine waste hauler contracts:

- Forest Township and the Village of Otisville
- Davison Township and the City of Davison
- Grand Blanc Township and the City of Grand Blanc
- Atlas Township and the Village of Goodrich

Solid Waste Disposal Collection Services

Municipality	Collection Company	Households	HH Cost per Month
Cities			
Burton	Waste Management	10,938	11.62
Clio	Richfield Equities	1,029	9.96
Davison	Republic	2,039	11.60
Fenton*	Republic	4,358	N/A
Flint	City of Flint	40,472	13.75
Flushing*	Waste Management	3,100	N/A
Grand Blanc	Waste Management	3,200	10.41
Linden	Republic	1,266	9.98
Montrose	Republic	581	9.17
Mt. Morris	Richfield Equities	1,068	8.78
Swartz Creek*	Republic	2,196	N/A
Townships			
Argentine	Richfield Equities	2,552	10.52
Atlas	Richfield Equities	2,200	8.52
Clayton	Waste Management	2,629	10.67
Davison	Richfield Equities	5,230	8.28
Fenton	Republic	5,837	10.00
Flint	Richfield Equities	9,693	9.25
Flushing	Richfield Equities	1,742	4.75
Forest	Richfield Equities	3,685	9.33
Gaines	Waste Management	200	5.00
Genesee	Waste Management	1,508	10.00
Grand Blanc	Waste Management	2,472	10.89
Montrose	Richfield Equities	8,865	10.00
Mt. Morris	Republic	10,785	8.96
Mundy	Richfield Equities	1,926	8.96
Richfield	Richfield Equities	7,925	9.03
Thetford	Richfield Equities	5,367	9.05
Vienna	Richfield Equities	2,989	8.75
Villages	Richfield Equities	2,469	9.96
Gaines	Waste Management	4,678	9.83
Goodrich*	Republic	128	10.89
Lennon*	Waste Management	538	N/A
Otisville	Richfield Equities	150	N/A
Average Cost per HH		285	8.85
9.54			

Average Cost per Household	
City	10.66
Township	9.04
Village	9.87
*Cost per HH not available	



Conclusions

This section has drawn upon data collection from the public about their solid waste and recycling services in their community, as well as prioritization of ideas for a future solid waste system by the Solid Waste Management Planning Committee. The results of the survey has led to providing us with valuable conclusions about how effective solid waste and recycling are overall in the county, and some suggestions on changes that can be made through outreach and education programs as well as curtail specific needs to communities (such as providing larger bins for communities with only bi-weekly recycling). The working session with the committee resulted in prioritizing several ideas that will help form the goals for this plan; the lack of a material recycling facility in the county was probably the greatest concern, but it is also seen as a possible opportunity to implement one with the amendment of this plan.

As part of a requirement of this plan and to identify the future proper management of Genesee County waste, facility description surveys were collected from landfills and recycling facilities. Landfills, in particular, are an important step to determining proper management of waste and landfill capacity. However, over 66% of waste that is entering the landfills is being imported from outside of Genesee County, so landfill capacity does not necessarily directly relate to how Genesee County manages our own waste. After reviewing the descriptions, it was determined that our landfills can not only manage our waste, but imported waste as well, for at least the next ten (+) years.

In addition to facility descriptions, solid waste disposal collection companies were tracked to show who provided services to communities throughout the county. Local units were also surveyed how much their waste service costs per household per month. By tracking this data, it was concluded that there were several communities that would be recommended to partner with an adjacent community to combine contracts and services for cost savings and efficiency purposes.



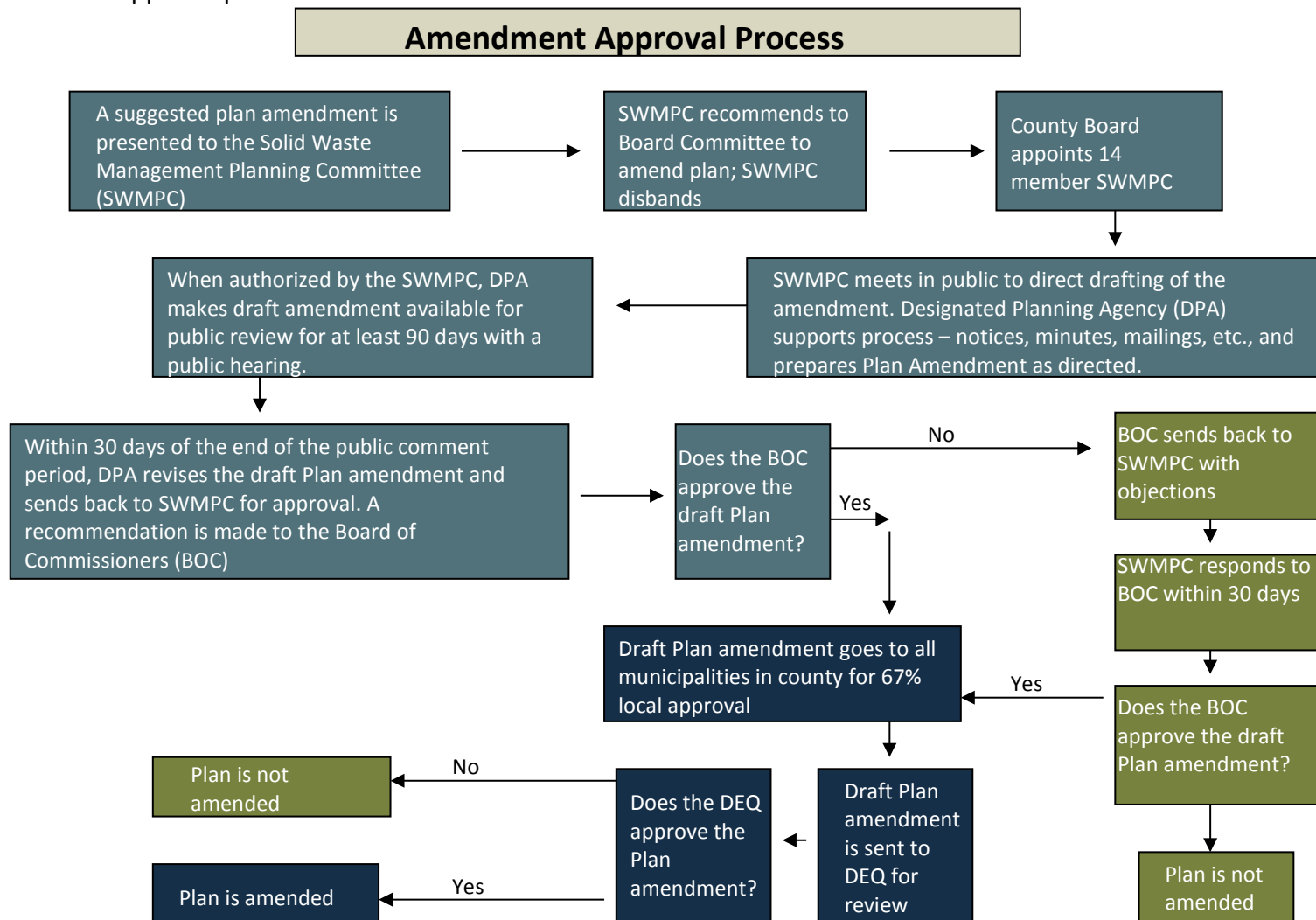
Technical Report 2 Appendix

46 The Planning Process

47 PSWOT Process

The Planning Process

The Designated Planning Agency (DPA) is the GCMPC whose staff is tasked with implementing the Solid Waste Management Plan. The amendment approval process for the Solid Waste Plan is shown below.



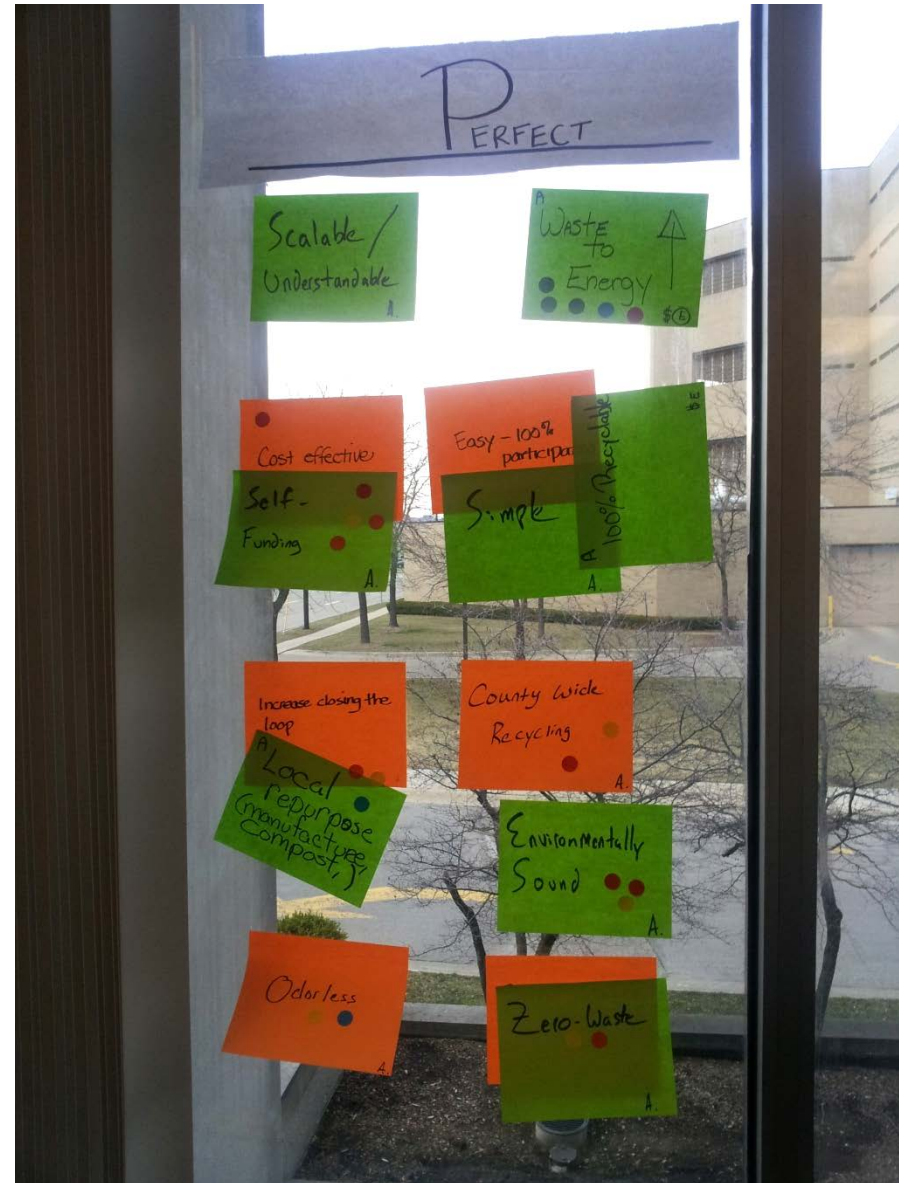
P-SWOT Process

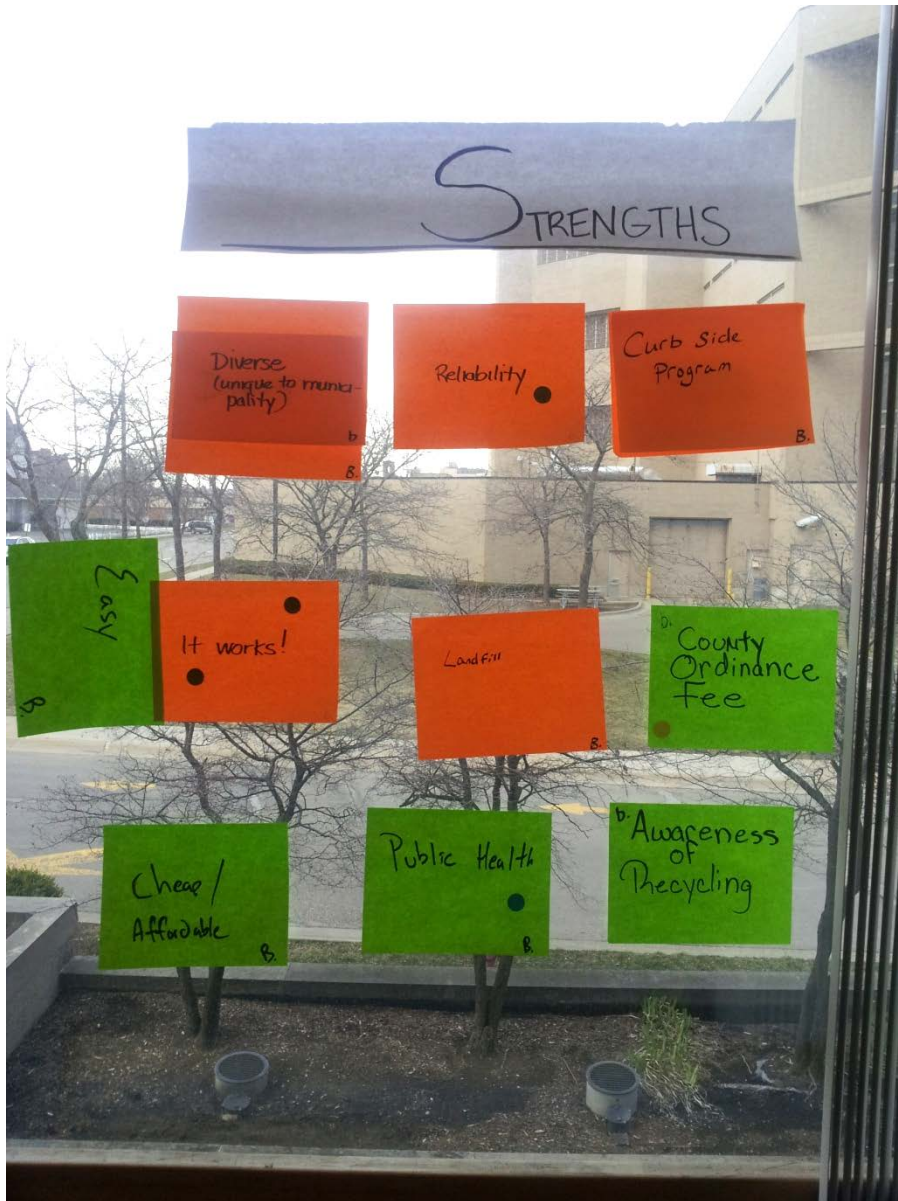
When groups were asked what their idea of the perfect solid waste system is, the following answers were presented:

- Scalable / Understandable
- Waste To Energy
- Cost Effective / Self- Funding
- Easy / 100% Participation
- Increase Closing the Loop / Local Repurpose
- County-Wide Recycling
- Environmentally Sound
- Odorless
- Zero-Waste

When asked to prioritize, committee members recognized that perfect ideas don't always translate to being realistic (take 100% recycling participation for example). Their top priorities in this category were:

- Waste to Energy (not necessarily as a facility, but waste as a potential resource)
- Cost Effective / Self- Funding





For identifying strengths in this exercise, the group came up with the least amount of ideas. The following were named:

- Diverse (unique to municipality)
- Reliability
- Curbside Program
- Easy / It Works
- Landfill
- County Ordinance Fee
- Cheap / Affordable
- Public Health
- Awareness of Recycling

For this category, none of the ideas were significantly prioritized overall (as compared to the other categories). Although the following were named to be priorities:

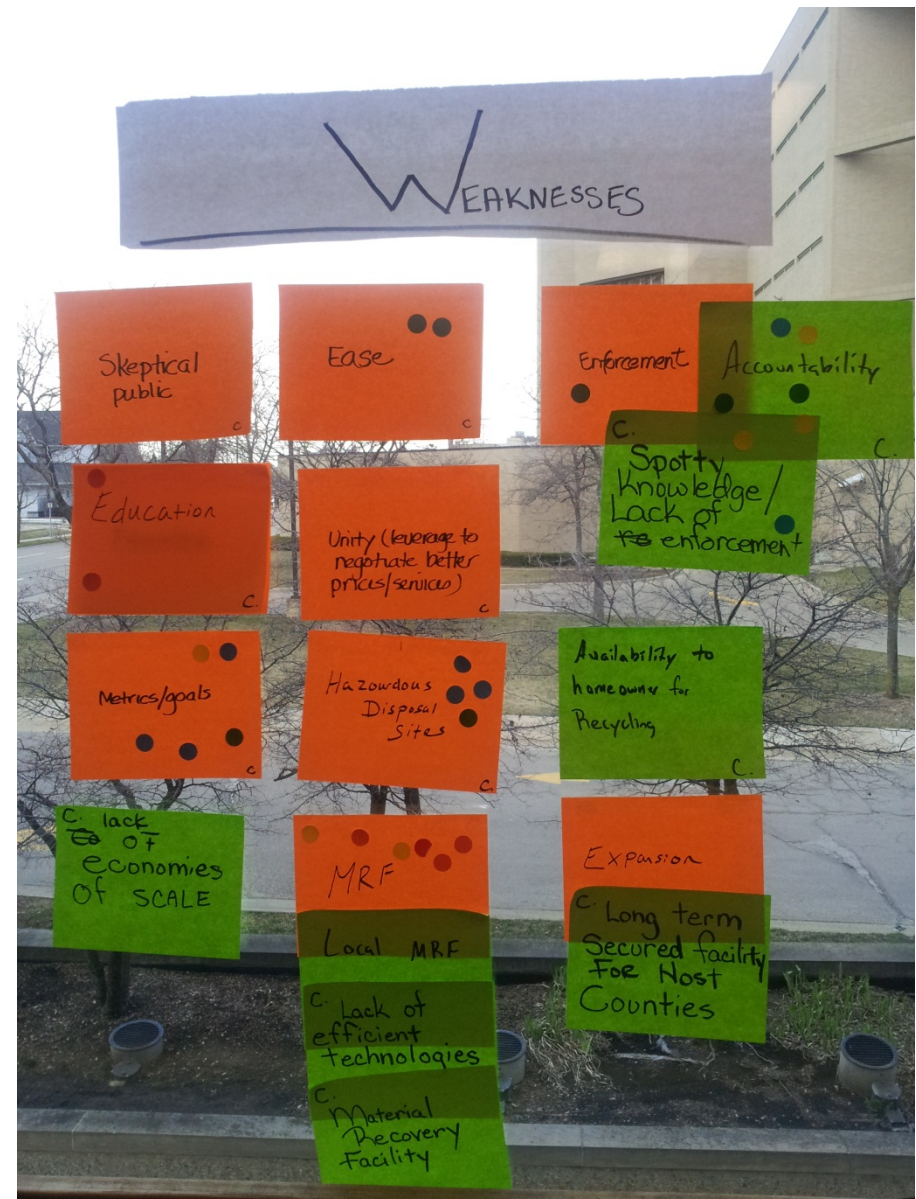
- Easy / It Works
- County Ordinance Fee
- Public Health
- Reliability

The weakness category named the following ideas:

- Skeptical public
- Ease
- Enforcement / Accountability
- Education
- Unity
- Metrics / Goals
- Hazardous Disposal Sites
- Availability to Homeowner for Recycling
- Lack of Economies of Scale
- Local Material Recovery Facilities
- Expansion

With the following being identified as the top priorities:

- Enforcement / Accountability
- Material Recovery Facilities
- Metrics / Goals
- Hazardous Disposal Sites





Opportunities:

- More closure of Entire Recycling Circle
- Opportunity to Emphasize Education
- Envision system that looks at past and future
- More opportunities for recyclables / Expand Markets
- Demolition Recovery
- Common Plan throughout County
- Linkage: Regional Planning with other Counties
- 100% Participation
- Local or County MRF
- Count-wide Recycling
- Pay-as-you-Throw

Priorities:

- Expanded Markets
- Local or County MRF
- Pay-as-you-Throw
- Education



When looking at the Threats portion of the working session, the group identified the following:

- Lack of Education / Information
- Politicians / Current Contracts / Silos
- Cost / Lack of Funds
- National / Statewide Legislation
- Landfill Opposition
- Bad Actors / Irresponsible Companies

Out of this, the committee prioritized the following:

- Politicians / Current Contracts / Silos
- Lack of Education
- Cost / Lack of Funds
- Bad Actors / Irresponsible Companies





Genesee County Solid Waste Management Plan

Technical Report 3
Goals and Objectives

GENESEE COUNTY
METROPOLITAN PLANNING COMMISSION

3 Goals and Objectives

Goals and Objectives

To comply with Part 115 and its requirements, the Genesee County Solid Waste Plan establishes an Enforceable Program and Process that is directed toward goals and objectives based on the purposes stated in Part 115, Section 11538.(1)(a), 11541.(4) and the State Solid Waste Policy adopted pursuant to this Section, and Administrative Rules 711 (b)(i) and (ii). At a minimum, the goals must reflect two major purposes of Solid Waste Management Plans:

- 1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation and other means of resource recovery and;
- 2) To prevent adverse effects on the public health and environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and ground and surface waters.

This Solid Waste Management Plan works toward the following goals through actions designed to meet the respective goals in which they support:

Goal One:

Implement and maintain an integrated solid waste management plan to ensure a healthy environment and financially sound waste management system.

- a. Monitor solid waste imports and exports to track long term disposal capacity.



- b. Improve the solid waste database to increase the quality and accuracy of data collection methodology and reporting. Expand the database to include multi-family housing. Communities are encouraged to request monthly or quarterly reports from their waste hauler.
- c. Document and evaluate previous efforts of the program to show successes as well as shortcomings of past efforts. Provide recommendations to improve efforts moving forward with implementation of the plan.
- d. Evaluate the Genesee County Solid Waste Ordinance as well as best practices for enforcement strategies.

Goal Two:

Continue to improve education and awareness of recycling and reuse of materials to promote reduction of waste in the county.

- a. Evaluate best practices from other counties in Michigan and around the country for education programs. Pursue grant funding for education.
- b. Expand the recycling education program beyond presentations in the classroom to include a recycling curriculum that is available to teachers.
- c. Provide increased outreach to reach the adult population in Genesee County. This would include updating community websites and newsletters, as well as making presentations to each community, with current information about recycling opportunities specific to each community.
- d. Educate and advise local municipalities and businesses with the cost benefits of reducing waste generation, and methods or recommendations of doing so (i.e. Pay-As-You-Throw, etc.).

Goal Three:


Implement a sustainable solid waste program with the main objective of reducing the overall amount of waste generated in Genesee County by 15% utilizing resource conservation technologies, such as recycling and composting.

- a. Establish annual goals for evaluation of waste generation, creating a metric system to measure progress.
- b. Recommend implementation of a residential curbside recycling program in the City of Flint with an incentive program.
- c. Offer to conduct waste assessments within the commercial sector to evaluate volumes of waste and recommend methods to increase recycling as well as proposed cost savings.
- d. Research and make recommendations of implementing a Material Recycling Facility (MRF) in Genesee County. As part of this recommendation, specify if the facility should be a public or private facility (or both), the appropriate size of the facility for the amount of waste it would take in, associated costs, etc.

Goal Four:

Develop a solid waste program that utilizes our assets and resources from the hauler, landfill and recycling industries, giving local units and businesses a competitive advantage to help retain and attract economic development in Genesee County.

- a. Utilizing comparable organizations and authorities as examples formulate a plan for potential revenue and expenditures based on programs and facility operations.

- 
- b. Collaboration, efficiencies, and partnerships with local communities to reduce costs, increase recycling opportunities, and minimize the overall environmental footprint.



Genesee County Solid Waste Management Plan

Technical Report 4
Selected Solid Waste System and
Implementation Strategy

GENESEE COUNTY
METROPOLITAN PLANNING COMMISSION

4 Conclusions

5 Alternate Solid Waste Management Systems

5 Selected Solid Waste Management System

5 Summary of Components

9 Description of Alternatives

10 Resource Conservation Efforts

11 Waste Reduction, Recycling and Composting Programs

12 Recycling and Composting



19	Identification of Resource Recovery Management Entities
20	Projected Diversion Rates
21	Educational and Informational Programs
22	Implementation Timetable for the Selected System
27	Solid Waste Management Components
30	Identification of Responsible Parties
31	Capacity Certification
32	Appendix

Conclusions

Genesee County's waste stream is currently managed by the private sector, while the County enforces the rules and regulations of the Genesee County Solid Waste Ordinance as well as implementation of the selected solid waste system. Current population and land use trends show that population in the county will steadily rise and waste generation will increase by over 10% in the next 25 years.

While the management of the waste stream is acceptable, the Solid Waste Management Committee has concluded that improvements can be made to the overall system to help further reduce waste, consolidate services to reach cost benefits, and to continue education efforts and create new programs and incentives for recycling.



Alternative Solid Waste Management Systems

The following summary describes all the solid waste management systems considered by Genesee County and how each alternative will help meet the needs and goals established in this plan. The alternatives from the 2000 Solid Waste Management Plan were analyzed for the inclusion of economical and environmental aspects. The current predominant method of disposal in Genesee County is disposing of waste at four major landfill sites, which includes one located in Shiawassee County. The details of the selected alternatives are in the following section, while details of the non-selected alternatives are located in the appendix.

Selected Solid Waste Management System

Genesee County has selected a plan for solid waste management that calls for a combination of techniques to reduce the amount of solid waste being generated in the county. The selected system as follows fits the characteristics and needs of Genesee County. The implementation of the selected system will still be managed by Genesee County Metropolitan Planning Commission. The private sector will continue to also be involved with the collection, disposal and recycling of solid waste generated in the County.

Summary of Components

The current system for waste disposal in Genesee County is based on a plan that includes recycling, landfilling and education in resource recovery. Because Genesee County has an established solid waste management system, this plan amendment is focused primarily on the following items as means to enhance and improve the current system:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expanding the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, implementing a requirement for multi-family units to have access to recycling, encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a Material Recycling Facility (MRF).
- Utilizing assets and resources in the County by developing partnerships amount local communities to reduce costs and increase recycling opportunities.

Total Waste Generated

The figure below details the total waste generated for 2010 in Genesee County, as well as projects out waste generation through 2035 using the growth rate of the population projections from the *Genesee County Long Range Transportation Plan 2035*. This estimated growth rate of waste generation gives the county an idea of how to plan for increases in waste and look for methods to help reduce waste generation. Overall, if the population grows at a similar rate as projected, Genesee County will see an increase of 10.13% in total annual waste generation (CY) from 1.4 million cubic yards in 2010 to 1.54 million cubic yards in 2035. The increase in waste is coming primarily from the residential sector (showing an overall 30% increase); as the commercial sector foresees a gradual 6.5% decrease over the next 25 years due to a shift in the manufacturing sector industry.

Total Waste Generated (cubic yards per year)						
Cubic Yards Generated						
Sector	2010	2015	2020	2025	2030	2035
Residential*	443,479	530,029	536,584	550,456	563,700	576,610
Commercial	818,593	817,611	817,120	815,567	814,344	813,285
MSW Sub-total	1,262,072	1,347,640	1,353,704	1,366,023	1,378,044	1,389,895
Construction / Demolition	74,484	79,534	79,892	80,619	81,328	82,027
Industrial Special Waste	66,221	70,711	71,029	71,675	72,306	72,928
Total Annual Cubic Yards	1,402,777	1,497,885	1,504,625	1,518,317	1,531,678	1,544,850
Population	425,790	454,666	456,726	460,880	464,923	468,938
Pop Growth Rate (%)	NA	6.78%	0.45%	0.91%	0.88%	0.86%

*Does not include multi-family data.

It will be the attempt of this plan to develop a flexible and sound strategy for management of the waste system. It is the intent to review our new plan in five (5) years in order to adjust to current and projected needs within Genesee County.

The following are technologies that are available to manage and sustain the waste management system in Genesee County:

1. Waste Reduction: As a county planning agency, although we cannot mandate source reduction of solid waste, education is a key component to achieving overall reductions in waste generation. The industrial



and commercial sectors are a large factor in making significant improvements in this area as incentives to reduce solid wastes are economical and feasible. Voluntary waste assessments could be conducted in commercial and industrial sectors to help improve overall reductions.

2. Composting: This is a low technology application for reducing yard and leaf waste from the waste stream. Currently the County relies on local municipalities to manage yard waste. Since the statewide ban on landfilling of yard waste was enacted, communities have been required to establish alternatives, such as composting for management of this element. Legislation has, in the past and recently, been introduced to exempt landfills from the yard waste ban. Should legislation of this nature pass it could have a significant impact on the amount of additional waste that enters the County landfills. Additional yard waste in the landfills could also negatively affect the County wide diversion rates. Education and implementation of local compost programs would help to deter compost materials from the landfills.

3. Recycling: Recycling is the separation, collection and processing of materials that would otherwise become solid waste, for conversion into raw materials or new products. As specified in the Genesee County Recycling Rates Assessment, the current average county-wide residential recycling rate is approximately 6% and the average participation rate is 39%, with all local units participating in curbside recycling with the exception of the City of Flint. Waste that has been diverted to landfills in the residential sector has increased by 13% since 2005. One of the goals of the plan addresses increasing the recycling rate to reduce waste being landfilled by 15%. While recycling is also practiced throughout the commercial and industrial sectors, data for those sectors was not obtained due to the difficulty of obtaining data (commercial and industrial sectors all have private contracts with waste haulers).



Education is a key component of increasing recycling rates in all sectors. This will include recommending implementation of a curbside recycling program in the City of Flint, encouraging communities to adopt recycling incentive programs such as Pay-As-You-Throw and conducting waste assessments or sorts. Additionally, more research is underway that looks at implementation of a Material Recycling Facility (MRF) in

Genesee County that would handle recyclable processing for communities within and outside of the county, creating jobs and a viable revenue source for the solid waste program. If choosing the single stream option for operating a MRF, it would be more economical and reduces barriers to recycling, which is beneficial for the customers and the haulers.

4. Landfilling: The landfilling of solid waste is the final component of the solid waste system in Genesee County and will continue to remain a viable technology for disposal of wastes. Landfills must be properly constructed, licensed and operated. The siting criteria established in the 1983 report are still credible.

Summary

The most effective solid waste management techniques for Genesee County will be a combination of all of the aforementioned technologies. In short term, the plan will focus on increasing composting and recycling throughout the communities in the county, while the remaining waste should be handled through the landfill system.

Description of Alternatives

The following alternatives system strategies show varying levels of volumes based on their percentage goal of the waste stream. These were used for the purpose of determining which alternative system percentages would be attainable over the next 10 years.

Description of Alternatives		
Type of System	Technology	Percentage of Waste Stream
Low Volume		
	Waste Reduction	1-2
	Recycling	4-6
	Composting	2-3
	Landfill	89-93
Medium Volume		
	Waste Reduction	4-5
	Recycling	12-16
	Composting	6-7
	Landfill	75-79
High Volume		
	Waste Reduction	6-9
	Recycling	18-22
	Composting	9-12
	Landfill	57-67

The low volume alternative system is the closest to our current system's percentages. Since our current methodology does not account for data collection of waste reduction and composting, it is presumed from the recycling and landfill numbers that the low volume numbers match closely. While the ultimate goal is to achieve high volume of waste reduction, recycling and composting, realistically, we could expect medium volumes to be achieved over the next ten years with the goals the plan is looking to achieve. This would result in an approximate 15% reduction in waste being sent to the landfill, with the largest increase in recycling overall.



Resource Conservation Efforts

The following chart describes the selected system’s proposed conservation efforts to reduce the amount of solid waste generated throughout the County. The annual amount of solid waste currently or proposed to be diverted from landfills is estimated for each effort to be used, if possible. Since conservation efforts are provided voluntarily and change with technologies and public awareness, it is not the Plan amendment’s intention to limit the efforts to only what is listed. Instead, citizens, businesses and industries are encouraged to explore the options available to their lifestyles, practices and processes, which will reduce the amount of materials requiring disposal.

Resource Conservation Efforts			
Effort Description	Estimated Diversion Tons / Yr		
	Current	5th yr	10th yr
Curbside Recycling (Residential)	9,370	28,618	54,148
Commercial / Industrial Recycling and Waste Reduction*	21,829	38,132	45,235
Household Hazardous Waste Collection	59	70	95
Yard Waste / Composting*	4,716	12,520	22,562
Total	35,974	79,340	122,040
Percentage Volume of Waste Generated	9%	18%	24%
*Estimated based on National EPA 2010 numbers			

Waste Reduction, Recycling and Composting Programs

As discussed in previous sections, the current waste system for Genesee County will rely on incorporating an integrated system of waste reduction, recycling, composting and landfilling. The plan will focus on the following:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expand the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, , implementing a requirement for multi-family units to have access to recycling encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a Material Recycling Facility.
- Utilizing assets and resources in the County by developing partnerships amount local communities to reduce costs and increase recycling opportunities.

Overview of Resource Recovery Programs

The following describes the type and volume of material in the county's waste stream that may be available for recycling or composting programs. How conditions in the County affect or may affect a recycling or composting program and potential benefits derived from these programs is also discussed. Impediment to recycling or composting programs which exist or which may exist in the future are listed, followed by a discussion regarding reducing or eliminating such impediments. Currently, it is estimated that only about 9% of total waste generated in the county is actually being recycled, where there is actually opportunity to recycle close to 50% of total waste generated. These amounts are estimated due to limited public data available in the multi-family and commercial sectors. In order to tap into greater recycling rates, recycling and composting programs should be expanded in all sectors that result in increased participation.



Recycling programs within the County is feasible. Details of existing and planned programs are included in the following pages.



Recycling programs for the County have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:



Composting programs within the County is feasible. Details of existing and planned programs are included on the following pages.



Composting programs for the County have been evaluated and it has been determined that it is not feasible to conduct any of the programs because of the following:



Programs for source separation of potentially hazardous materials are feasible and details are included on the following pages.



Separation of potentially hazardous materials from the County's waste stream has been evaluated and it has been determined that it is not feasible to conduct any separation programs because of the following:

Recycling and Composting

The following is a brief analysis of the recycling and composting programs selected for the County in this plan. The analysis covers various factors within the county and the impacts of these factors on recycling and composting. Following the written analysis, Table one (1) and Table two (2) list the existing recycling and source separation of hazardous material programs that are currently active in the County and will be continued as part of this Plan. Table three (3), Table four (4) and Table five (5) list the recycling, source separation of hazardous materials and composting programs that are proposed in the future for the County. Because there are very few composting programs currently in place in the County, there is no table representing existing composting programs. It is not this Plan's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

Recycling

Currently, all local units of government with the exception of the City of Flint have recycling curbside programs in operation for single-family residential. In order to track the recycling and participation rates of each community, Genesee County Metropolitan Planning Commission coordinated with local units and private haulers to obtain actual data. The data was utilized in the Genesee County Recycling Assessment Study that is part of the appendix of this plan. This study assesses how well Genesee County residents are recovering recyclables and offers recommendations to enhance our solid waste management systems here in the County.



Since 2006, GCMPC launched a recycling awareness campaign, invested in the Borrow Our Bins program, purchased a County Recycling Trailer, and implemented a school recycling education campaign, not to mention the

countless hours of outreach and promotion at area events. The principal shortfall in Genesee County is the absence of a residential recycling program in the City of Flint. The City of Flint makes up nearly a quarter of the population in Genesee County and is behind the times by not offering recycling to its

residents. Currently we estimate that roughly 5% of households in the City of Flint are participating in a residential recycling program. Due to the current absence of a program in Flint, we estimate there are an added 65 million pounds of waste per year going to area landfills that would otherwise be diverted. Simply adding curbside recycling in the City of Flint could bring an added 40,000 additional households into the recycling realm, potentially diverting approximately 14 million pounds of waste per year.

There are also a number of challenges surrounding the waste systems in place in multi-family housing which make up roughly 17% of households. Places like Ann Arbor, Michigan, Minneapolis and Minnesota have municipal ordinances in place mandating that all property managers are required to offer their residents the opportunity to recycle. One of the plan's goals is to encourage communities to explore the feasibility of extending recycling options to multi-family residences by local ordinance or any other method they choose. Additionally, incentive programs are a tool that could be used in communities, such as Pay-As-You-Throw waste collection, which can help communities boost recycling rates and decrease the amount of waste their residents contribute to Genesee County's three landfills.

Lastly, continuing and increasing education opportunities, with a focus on targeting adult populations, will help change behaviors among residents and businesses. Expanding the program will include waste assessments and sorts, as well as providing up to date information through each local unit to reach residents about how and what they can recycle.

Composting

This low technology application reduces homeowner’s grass clippings and leaves from entering the landfills. There are many benefits from composting, such that compost can be used as a soil conditioner and is an economic solution to purchased soil. These benefits should continually be part of the overall education outreach to residents. Currently, very few local units have a compost program in place, but are required by Michigan Law to have a program in place for picking up yard waste to prevent it from entering landfills.

Source Separation of Hazardous Wastes

The Household Hazardous Waste (HHW) Program is administered and run by the Genesee County Metropolitan Planning Commission. The solid waste program’s budget currently allows for a HHW event to occur twice a year (spring and fall) and is free for all residents in Genesee County. If the solid waste program were to expand, there is consideration to expand the outreach of the HHW program as well to include a permanent drop off site for residents to use throughout the year.

Conclusion

The selected system calls for the continuation of the private sector managing the County’s recyclable materials and compost. The purpose of the resource recovery portion of the selected system is to increase education and participation among private and public sectors to increase the resource recovery rate for Genesee County.



Existing Recycling Programs								
Program Name	Service Area ¹	Public or Private		Collection Point ³	Collection Frequency ⁴	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
Cities								
Recycling	Burton	Private		c	b	5	5	5
Recycling	Clio	Private		c	w	5	5	5
Recycling	Davison	Private		c	b	5	5	5
Recycling	Fenton	Private		c	b	5	5	5
Proposed	Flint	Public						
Recycling	Flushing	Private		c	b	5	5	5
Recycling	Grand Blanc	Private		c	w	5	5	5
Recycling	Linden	Private		c	b	5	5	5
Recycling	Montrose	Private		c	b	5	5	5
Recycling	Mt. Morris	Private		c	b	5	5	5
Recycling	Swartz Creek	Private		c	b	5	5	5
Townships								
Recycling	Argentine	Private		c	b	5	5	5
Recycling	Atlas	Private		c	b	5	5	5
Recycling	Clayton	Private		c	b	5	5	5
Recycling	Davison	Private		c	b	5	5	5
Recycling	Fenton	Private		c	w	5	5	5
Recycling	Flint	Private		c	w	5	5	5
Recycling	Flushing	Private		c	w	5	5	5
Recycling	Forest	Private		c	b	5	5	5
Recycling	Gaines	Private		c	b	5	5	5
Recycling	Genesee	Private		c	w	5	5	5
Recycling	Grand Blanc	Private		c	w	5	5	5
Recycling	Montrose	Private		c	b	5	5	5
Recycling	Mt. Morris	Private		c	b	5	5	5
Recycling	Mundy	Private		c	b	5	5	5
Recycling	Richfield	Private		c	b	5	5	5
Recycling	Thetford	Private		c	b	5	5	5
Recycling	Vienna	Private		c	b	5	5	5
Villages								
Recycling	Gaines	Private		c	b	5	5	5
Recycling	Goodrich	Private		c	b	5	5	5
Recycling	Otisville	Private		c	b	5	5	5

¹ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

² Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental; 5 = Private Owner/Operator; 6 = Other

³ Identified by c = curbside; d = drop off; o = onsite; and if other explained

⁴ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter

Proposed Recycling Programs

Program Name	Service Area ¹	Public or Private	Collection Point ³	Collection Frequency ⁴	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
Cities								
Recycling	Burton	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Clio	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Davison	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Fenton	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Proposed	Flint	Public	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Flushing	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Grand Blanc	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Linden	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Montrose	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Mt. Morris	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Recycling	Swartz Creek	Private	c	w	a, b, c, d, e, f	1, 3, 5	5	1, 3, 5
Townships								
Recycling	Argentine	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Atlas	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Clayton	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Davison	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Fenton	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Flint	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Flushing	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Forest	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Gaines	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Genesee	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Grand Blanc	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Montrose	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Mt. Morris	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Mundy	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Richfield	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Thetford	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Vienna	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Villages								
Recycling	Gaines	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Goodrich	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5
Recycling	Otisville	Private	c	w	a, b, c, d, e, f	1, 5	5	1, 5

¹ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

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³ Identified by c = curbside; d = drop off; o = onsite; and if other explained

⁴ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; WI = winter

⁵ Identified by the materials collected by listing of the letter located by the material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2 etc.

Existing Composting Programs

Program Name	Service Area ¹	Public or Private	Collection Point ³	Collection Frequency ⁴	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
Yard Waste	Burton	Private	c	w	Y	1	5	1
Yard Waste	Clio	Private	c	w	Y	1	5	1
Yard Waste	Davison	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Fenton	Private	c	w	Y	1	5	1
Yard Waste	Flint	Public	c	w	Y	1	5	1
Yard Waste	Flushing	Private	c	w	Y	1	5	1
Yard Waste	Grand Blanc	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Linden	Private	c	w	Y	1	5	1
Yard Waste	Montrose	Private	c	w	Y	1	5	1
Yard Waste	Mt. Morris	Private	c	b, sp, su, fa ⁶	Y	1	5	1
Yard Waste	Swartz Creek	Private	c	w	Y	1	5	1
Townships								
Yard Waste	Argentine	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Atlas	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Clayton	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Davison	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Fenton	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Flint	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Flushing	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Forest	Private	o	b, sp, su, fa	Y	1	5	1
Yard Waste	Gaines	Private	o	b, sp, su, fa	Y	1	5	1
Yard Waste	Genesee	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Grand Blanc	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Montrose	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Mt. Morris	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Mundy	Private	c	b, sp, su, fa	Y	1	5	1
Yard Waste	Richfield	Private	c	w, sp, su, fa	Y	1	5	1
Yard Waste	Thetford	Private	o	b, sp, su, fa	Y	1	5	1
Yard Waste	Vienna	Private	c	b, sp, su, fa	Y	1	5	1
Villages								
Yard Waste	Gaines	Private	c	b	Y	1	5	1
Yard Waste	Goodrich	Private	c	b	Y	1	5	1
Yard Waste	Otisville	Private	c	b	Y	1	5	1

¹ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

² Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental; 5 = Private Owner/Operator; 6 = Other

³ Identified by c = curbside; d = drop off; o = onsite; and if other explained

⁴ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter

⁵ Identified by Y = Yardwaste; H = Household Organics

⁶ Weekly in October and November

Proposed Composting Programs

Program Name	Service Area ¹	Public or Private	Collection		Collection Frequency ⁴	Materials Collected ⁵	Program Development ²	Management Operation ²	Responsibilities Evaluation ²
			Point ³	Point ³					
Cities									
Composting	Burton	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Clio	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Davison	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Fenton	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Flint	Public	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Flushing	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Grand Blanc	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Linden	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Montrose	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Mt. Morris	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Composting	Swartz Creek	Private	c	w	w	Y, H	1, 3, 5	5	1, 3, 5
Townships									
Composting	Argentine	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Atlas	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Clayton	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Davison	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Fenton	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Flint	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Flushing	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Forest	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Gaines	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Genesee	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Grand Blanc	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Montrose	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Mt. Morris	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Mundy	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Richfield	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Thetford	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Vienna	Private	c	w	w	Y, H	1, 5	5	1, 5
Villages									
Composting	Gaines	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Goodrich	Private	c	w	w	Y, H	1, 5	5	1, 5
Composting	Otisville	Private	c	w	w	Y, H	1, 5	5	1, 5

¹ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.
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⁵ Identified by Y = Yardwaste; H = Household Organics

Identification of Resource Recovery Management Entities

The following identifies those public and private parties, and the resource recovery or recycling programs for which they have management responsibilities.

The Genesee County Metropolitan Planning Commission will serve as an umbrella agency for resource recovery programs. An entity that is willing to administer a resource recovery program may contact our agency for assistance and direction. This may include, but is not limited to the following entities:

- Environmental Groups
- School System
- Local Units of Government
- Industry
- Commercial
- Waste Industry
- Community Groups
- Universities

Projected Diversion Rates

The following estimates the annual amount of solid waste which is expected to be diverted from landfills and incinerators as a result of the current resource recovery programs and in five and ten years.



Projected Diversion Rates			
Collected Material	Projected Annual Tons Diverted		
	Current	5th Year	10th Year
Total Plastics	2,000	2,200	2,400
Total Paper	2,500	2,700	2,900
Total Glass	400	600	800
Yard trimmings	1,200	1,400	1,600
Total Wood Waste	550	750	950
Construction & Demolition	no data		
Food & Food Processing	1,200	1,400	1,600
rubber, leather, and textiles	750	950	1,150
Total Metals	800	1,000	1,200
Tires	no data		
Other Materials			
Batteries	no data		
Appliances	no data		
*Based on 2010 EPA MSW Generation Rate estimates			

Educational and Information Programs

It is often necessary to provide educational and informational programs regarding the various components of a solid waste management system before and during its implementation. These programs are offered to avoid miscommunication which results in improper handling of solid waste and to provide assistance to the various entities who participate in such programs as waste reduction and waste recovery. Following is a diagram of the programs offered or proposed to be offered in Genesee County.



- Commercial and Residential Waste Assessments and Sorts
- Stickers for Bins
- Flyers
- E-mail Distribution List
- Newspaper / Online Publicity
- Workshops / Presentations
- Annual County-Wide Newsletter
- School Presentations
- Events throughout the County

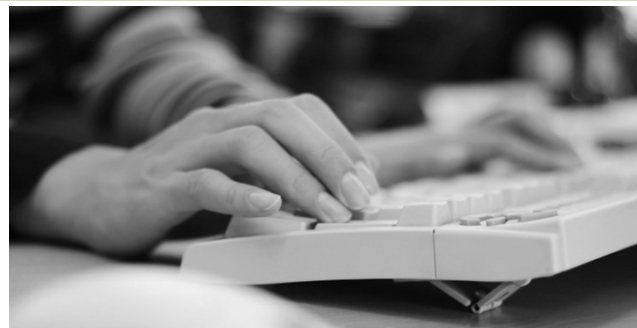
Implementation Timetable for the Selected System

The following timetable is an implementation guideline for the Solid Waste Planning Committee (SWPC) and GCMPC staff as the DPA. This was created to help prioritize implementation efforts to ensure the most efficient process of delivering a quality and sustainable solid waste system to the citizens of Genesee County. The timetable is meant to be a continuous guideline for the goals and objectives of the plan and may be altered at a later date if necessary to accommodate any changes in the planning process. Coordination and cooperation among local units, the private sector and the County will be a key element for implementation of a successful plan.

Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Plan Implementation		
Develop metrics for measuring progress of plan	DPA	6 months after approval
Prioritize planned programs	SWPC	6 months after approval
Initiate planned programs in order of priority	DPA, Communities	8 months after approval
Milestone reporting	DPA	Biannual and ongoing
Update implementation strategies according to tracked progress and make alterations where appropriate	DPA	Biannual and ongoing

Genesee County Selected Solid Waste System Implementation Timetable

Management Component	Responsible Agency	Timeline
Monitor, Data Collection and Reporting		
Monitor solid waste imports and exports	DPA	Ongoing
Improve solid waste database, methodology and reporting for inclusion of commercial and multi-family housing	DPA, Communities, Commercial Sector	Within 3 years of approval
Evaluate previous program efforts and provide recommendations for improvements	DPA	Within 1 year of approval
Evaluate the Genesee County Solid Waste Ordinance and best practices for improved enforcement strategies	DPA	Within 2 years of approval



Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Education and Awareness		
Evaluate best practices for education programs and pursue grant funding	DPA	Within 1 year of approval
Expand the education program to include a recycling curriculum for teachers	DPA, Schools	Within 2 years of approval
Update community websites and newsletters with current recycling information	DPA, Communities	Within 6 months of approval
County-wide annual waste and recycling newsletter	DPA	Within 1 year of approval
Present to communities with current information about recycling opportunities and programs	DPA, Communities	Ongoing
Educate communities and businesses of cost benefits of reducing waste generation and recommendations of doing so (PAYT, waste assessments, etc.)	DPA, Communities, Commercial Sector	Ongoing

Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Waste Reduction Techniques		
Establish annual goals for evaluation of waste generation	SWPC	Annual
Implementation of residential curbside recycling program in the City of Flint	DPA, City of Flint	Within 3 years of approval
Waste assessments in commercial sector	DPA, Commercial Sector	Ongoing
Research possibility of Material Recycling Facility (MRF) in Genesee County	DPA, SWPC	Within 2 years of approval
Implementation of MRF in Genesee County	DPA, SWPC, County, Private Sector, Communities	Pending Research



Genesee County Selected Solid Waste System Implementation Timetable		
Management Component	Responsible Agency	Timeline
Assests and Resources		
Formulate a plan for potential revenue and expenditures based on programs and facility operations	DPA, SWPC	Within 3 years of approval
Local communities partner to reduce costs and increase recycling opportunities	Communities, Private	Ongoing

Solid Waste Management Components

The following identifies the management responsibilities and institutional arrangements necessary for the implementation of the Selected Waste Management System. Also included is a description of the technical, administrative, financial and legal capabilities of each identified existing structure of persons, municipalities, counties and state and federal agencies responsible for solid waste management including planning, implementation, and enforcement.

The solid waste management planning committee will be responsible for the function of the implementation plan and seeking the necessary funding to implement the plan. Primary parties involved include the Genesee County Metropolitan Planning Commission, the Genesee County Board of Commissioners and the Michigan Department of Environmental Quality. Other participants in the process include environmental groups, landfill operators, recycling groups, local universities and extension offices, County Health Department, local units of government and the Genesee County Act 451 Planning Committee.

The Genesee County Board of Commissioners appointed GCMPC as the Designated Solid Waste Planning Agency (DPA) to develop and implement the County's Solid Waste Management Plan. GCMPC also administers and manages the Genesee County Solid Waste Management System, as well as drafts and implements the Solid Waste Management Plan for the County.

The Solid Waste Implementation Committee

This committee will be formed in an effort to coordinate the implementation of the Genesee County Solid Waste Management Plan. The committee functions as a primary committee for discussing and arranging for the implementation of the plan and functions throughout a five year planning update. Persons who serve on the committee will be from the private and public sector as well as citizens with environmental interests that reside within Genesee County.

Genesee County

The Genesee County Metropolitan Planning Commission is the DPA and is the primary agent for the administration and implementation of the plan. The following describes GCMPC's technical, financial, legal and administrative capabilities to manage and implement the plan.

Technical Capabilities

GCMPC employs persons that manage and implement the Solid Waste and Recycling program in Genesee County. This includes researching, analyzing and monitoring data.

Administrative Capabilities

Although the County is not involved with the actual collection and disposal of solid waste, staff from the GCMPC closely monitors and tracks reports from landfills and haulers to ensure an efficient system. The administrative capabilities of GCMPC to perform all aspects of solid waste management, including planning and implementation are established. While enforcement is an additional responsibility and is utilized by GCMPC, there is a lack of clear direction and monies to conduct proper enforcement. Enforcement has been listed as a deficiency in the current solid waste system, but has also been noted as an objective to improving monitoring solid waste in the county.

Financial Capabilities

The Genesee County Solid Waste Program is funded through the Genesee County Ordinance fee placed on haulers (\$0.5 / cubic yard). The program consists of the following areas of planning:

- Recycling
- Education
- Management
- Outreach





Legal Capabilities

The approved Act 451 Solid Waste Management Plan provides its Designated Planning Agency, GCMPC, the authority to implement and enforce any and all portions of the Act 451 Plan.

Genesee County Municipalities

The municipalities in Genesee County all take part in performing a role in implementing the Solid Waste Management Plan. Additionally, sixty-seven percent (67%) of municipalities must approve the Genesee County Solid Waste Management Plan before the plan can be submitted to the Michigan Department of Environmental Quality.

Michigan Department of Environmental Quality

The DEQ is a major player in the Genesee County Solid Waste Management Plan. The DEQ conducts permitting, licensing and monitors construction and operation of the private sector facilities in the County. The DEQ also oversees the Genesee County Solid Waste and Recycling Program, however, implementation of these programs is done within and by the County.

Identification of Responsible Parties

Document which entities within the County will have management responsibilities over the following areas of the Plan:

Resource Conservation:

Source or Waste Reduction – Private Sector
Product Reuse – Private Sector
Reduced Material Volume – Private Sector
Increased Product Lifetime – Private Sector
Decreased Consumption – Private Sector

Resource Recovery Programs:

Composting – Private Sector
Recycling – Private Sector, Genesee County
Energy Production – Private Sector

Volume Reduction Techniques:

Private Sector

Collection Processes:

Private Sector

Transportation:

Private Sector
Genesee County Road Commission
Michigan Department of Transportation

Disposal Areas:

Transfer Stations – Private Sector
Sanitary Landfills – Private Sector
Processing Plants (with possible implementation of a MRF) – Private Sector, Genesee County

Ultimate Disposal Area Uses:

Genesee County
Private Sector
DEQ
Local Government

Local Responsibility for Plan Update Monitoring &

Enforcement:

Genesee County
DEQ

Educational and Informational Programs:

Genesee County Metropolitan Planning Commission
Local Units of Government
Private Sector

Capacity Certifications

Every County with less than ten years capacity identified in their Plan is required to annually prepare and submit to the DEQ an analysis and certification of solid waste disposal capacity validly available to the County. This certification is required to be prepared and approved by the County Board of Commissioners.



This County has more than ten years capacity identified in this Plan and an annual certification process is not included in this Plan.



Ten years of disposal capacity has not been identified in this Plan. The County will annually submit capacity certifications to the DEQ by June 30 of each year on the form provided by DEQ. The County's process for determination of annual capacity and submission of the County's capacity certification is as follows

Technical Report 4 Appendix

33 Evaluation of Recycling

34 Detailed Features of Recycling and Composting Programs

35 Coordination Efforts

36 Costs and Funding

37 Evaluation Summary of Selected System

41 Advantages and Disadvantages of Selected System



Evaluation of Recycling

The following section provides additional information regarding implementation and evaluations of various components of the Selected System:

There is no additional information regarding the implementation and evaluations of various components of the selected system. A complete evaluation of the selected system is expressed in previous sections of the plan.

Detailed Features of Recycling and Composting Programs

Currently, Genesee County does not track the amount of different types of materials being recycled and composted throughout the County. Part of the plan amendment calls upon an improved database system that will track these amounts.

The following briefly describes the processes used or to be used to select the equipment and locations of the recycling and composting programs included in the Selected System. Difficulties encountered during past selection processes are also summarized along with how those problems were addressed:

Equipment Selection:

Existing Programs:

The local municipalities in Genesee County use private waste haulers (with the exception of the City of Flint who does not currently have curbside recycling) to private recycling service to its residents. The private waste haulers take their recyclables to a privately owned recycling facility or transfer station.

Proposed Programs:

There are no proposed programs for equipment selection. Equipment use will remain the choice of the operators of those facilities.

Site Availability and Selection:

Existing Programs:

Recycling facilities do not need to be licensed by the DEQ; however, they must meet local zoning and building regulations and are subject to local government approval.

Proposed Programs:

N/A

Coordination Efforts

Solid Waste Management Plans need to be developed and implemented with due regard for both local conditions and the state and federal regulatory framework for protecting public health and the quality of the air, water, and land. The following states the ways in which coordination will be achieved to minimize potential conflicts with other programs and, if possible, to enhance those programs.

It may be necessary to enter into various types of agreements between public and private sectors to be able to implement the various components of this solid waste management system. The known existing arrangements are described below which are considered necessary to successfully implement this system within the County. In addition, proposed arrangements are recommended which address any discrepancies that the existing arrangements may have created or overlooked. Since arrangements may exist between two or more private parties that are not public knowledge, this section may not be comprehensive of all the arrangements within the County. Additionally, it may be necessary to cancel or enter into new or revised arrangements as conditions change during the planning period. The entities responsible for developing, approving, and enforcing these arrangements are also noted.

Ultimate responsibility for implementing the County's solid waste plan rests with the Genesee County Board of Commissioners. The Board of Commissioners has designated the County Planning Commission with monitoring the plan and ensuring that the intent of the plan is followed.

Costs and Funding

The following estimates the necessary management, capital and operational and maintenance requirements on an annual basis for each applicable component of the solid waste management system. In addition, potential funding sources have been identified to support those components.



Costs and Funding		
System Component ¹	Estimated Costs	Potential Funding Sources
<u>Resource Conservation Efforts</u>		
Curbside Recycling, Composting	Unknown	DPA, Private, Municipalities
<u>Resource Recovery Programs</u>		
Household Hazardous Waste Collection ²	Unknown	DPA, Private, Municipalities
Volume Reduction Techniques	Unknown	DPA, Private
Collection Processes	N/A	Private Sector
Transportation	N/A	Private Sector
Disposal Areas	N/A	Private Sector
Future Disposal Area Uses	None	N/A
Management Arrangements ³	Unknown	DPA, Private
Educational and Informational Programs	Unknown	DPA, Solid Waste Ordinance Fee - Private Sector
¹ These components and their subcomponents may vary with each system		
² Municipalities contribute on a voluntary basis		
³ Funding specified for this component only includes what Genesee County is responsible for. This does not include private sector funds.		

Evaluation Summary of Selected System

The solid waste management system has been evaluated for anticipated positive and negative impacts on the public health, economics, environmental conditions, siting considerations, existing disposal areas, and energy consumption and production which would occur as a result of implementing this Selected System. In addition, the Selected System was evaluated to determine if it would be technically and economically feasible, whether the public would accept this Selected System, and the effectiveness of the educational and informational programs. Impacts to the resource recovery programs created by the solid waste collection system, local support groups, institutional arrangements, and the population in the County in addition to market availability for the collected materials and the transportation network were also considered. Impediments to implementing the solid waste management system are identified and proposed activities which will help overcome those problems are also addressed to assure successful programs. The Selected System was also evaluated as to how it relates to the Michigan Solid Waste Policy's goals. The following summarizes the findings of this evaluation and the basis for selecting this system:

The Genesee County Solid Waste System is based on a plan that incorporates recycling, landfilling and education in resource recovery. Over the next 5 year planning period, the County will research and determine the best methods for implementation of the priorities set forth through this plan. Because Genesee County has an established solid waste management system, this plan amendment is focused primarily on the following items as means to enhance and improve the current system:

- Improving monitoring, documenting and database efforts to improve the quality and accuracy of the solid waste system.
- Evaluating and expand the education and awareness of recycling and reuse of materials as well as the Household Hazardous Waste program in Genesee County.
- Reducing the overall amount of waste generated in Genesee County by utilizing various methods, including implementation of residential curbside recycling in the City of Flint, encouraging local recycling incentives, conducting waste assessments in the commercial sector, and research possible implementation of a Material Recycling Facility (MRF).
- Utilizing assets and resources in the County by developing partnerships amount local communities to reduce costs and increase recycling opportunities.

Description of Alternatives		
Type of System	Technology	Percentage of Waste Stream
Low Volume		
	Waste Reduction	1-2
	Recycling	4-6
	Composting	2-3
	Landfill	89-93
Medium Volume		
	Waste Reduction	4-5
	Recycling	12-16
	Composting	6-7
	Landfill	75-79
High Volume		
	Waste Reduction	6-9
	Recycling	18-22
	Composting	9-12
	Landfill	57-67

Three alternatives were reviewed during this plan amendment. The difference between alternatives was the amount of resource recovery volumes that could be potentially implemented with this plan (low, medium, and high). The low volume alternative system is the closest to our current system's percentages. Since our current methodology does not account for data collection of waste reduction and composting, it is presumed from the recycling and landfill numbers that the low volume numbers match closely. While the ultimate goal is to achieve high volume of waste reduction, recycling and composting, realistically, we could expect medium volumes to be achieved over the next ten years with the goals the plan is looking to achieve. This would result in an approximate 15% reduction in waste being sent to the landfill, with the largest increase in recycling overall.



Technical Feasibility

The technical feasibility of waste reduction, recycling, composting and landfilling has been established in the County in previous practices and its current state. Evolving technologies and equipment along with continuing education and effective management are crucial aspects of the effectiveness of these components in the selected system.

Economic Feasibility

When evaluating economic feasibility of the selected system components, there are several aspects to consider. When reviewing resource recovery techniques as part of the commercial sector (waste reduction and recycling), it is evident that employing these methods are beneficial for the private sector as reducing the amount of waste that is disposed would decrease overall costs to the business. Many products in the commercial sector are also lucrative for recycling, and thus, because recycling is a market driven operation, this is a very cost-effective option for the commercial sector.

Residential recycling and composting was also analyzed as part of the selected system. While demand is lower in markets for residential recyclables, there are still many impacts from recycling in this sector that for example, result in the creation of jobs to process recyclables. The plan also calls for possible implementation of a Material Recycling Facility (MRF) in Genesee County, which would process recyclables from the residents, creating revenue and jobs within the County.



Lastly, landfilling was evaluated for economic feasibility, and while this method has been an inexpensive way to process solid waste in past years, legislation has more recently enforced stricter regulations on construction and operation of landfills. Thus, resource recovery options as discussed previously are increasingly becoming more popular and viable.

Access to Land and Transportation Routes

When referring to the selected system's components and access to land, the availability of land space is specifically important for landfills, which is adequate for the planning period described in this Plan. Transportation networks were also considered when analyzing the selected system; the County has two interstate highways, one U.S. highway and four state highways that encompass the transportation network. These routes are adequate to serve the selected system for Genesee County.

Energy Consumption and Production

Waste Reduction and composting are methods utilized to reduce energy needed to operate a landfill. While landfills do require energy to operate efficiently, they are also producing energy by converting gas into electricity. Each landfill in the county participates in Landfill Gas Recovery, producing over 60,000 MegaWatts of gas in 2010 which would be enough to power over 6,000 households in Genesee County. Starting in the last quarter of 2012, Brent Run and Citizen's Disposal landfills are both expecting a significant increase in energy production.

Environmental Impacts

By expanding the resource recovery programs as stated in the Selected System, more natural resources will be preserved by decreasing disposal into landfills. No new facilities are planned for this period of time, thus no major environmental impacts will be created.

Public Acceptability

Our recent public survey conducted for the purpose of this plan amendment demonstrates that there is a wide acceptability for increasing and improving efforts for resource recovery programs.

Advantages and Disadvantages of Selected System

Each solid waste management system has pros and cons relating to its implementation within the County. Following is an outline of the major advantages and disadvantages for this Selected System.

Advantages:

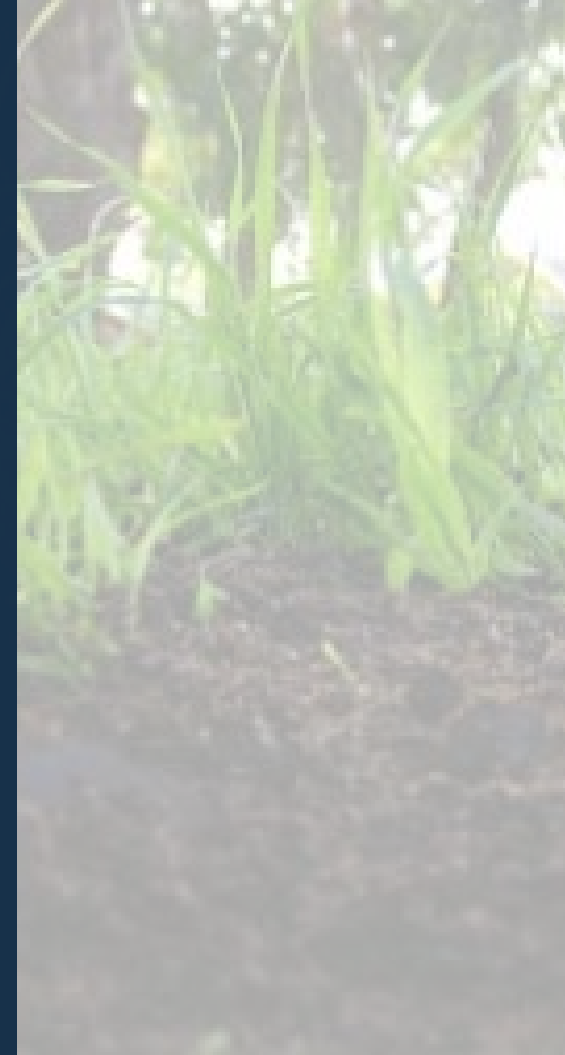
1. The selected system will enhance collaboration among the public and private sector on solid waste issues.
2. Education and informational opportunities and programs will be expanded to enhance the knowledge of commercial and residential sectors about resource recovery.
3. Improved database to track and monitor waste and recovery numbers across sectors.
4. The selected system is economically, environmentally and publicly feasible.
5. Expanded resource recovery programs will prolong landfill life and the environment.
6. Existing technology is capable of handling the waste stream.

Disadvantages:

1. The selected system still utilizes landfills as a primary means of disposal.
2. Recycling markets can be unstable at times.
3. Database methodology will be difficult to narrow down for the commercial sector.
4. Resources for education and recovery programs are limited.



Genesee County



County Recycling Assessment &
Strategies For Improvement

GENESEE COUNTY
METROPOLITAN PLANNING COMMISSION

Part 1: Genesee County Recycling Assessment

In 2005, Genesee County directed a study to determine the County's recycling rate and provide recommendations to further recycling options and participation among area residents. At the time of the study the amount of quality data available regarding area recycling programs was in short supply. This forced county staff and their consultants to use a minimum of local data mixed with national averages and accepted industry approximations to estimate the County's recycling rate. While this methodology and the results acquired proved valuable at the time, staff chose to ramp up our efforts and complete the 2011 study "in house" using actual recycling data from existing households in Genesee County. This study assesses how well Genesee County residents are recovering recyclables and offers recommendations to enhance our solid waste management systems here in the County.

By utilizing actual data, staff gained a genuine grasp on the recycling picture here in Genesee County. In fact, *actual weights* of municipal solid waste and recyclables were used in this review thus providing a much more accurate Genesee County residential recycling rate as well as rates for each particular local jurisdiction. To take it a step further, staff also studied residential participation in existing curbside programs throughout the county. From this data, recommendations for increased diversion and participation have been identified.

Study Methodology

With the goal of determining a Countywide Residential Recycling Rate in mind, staff designed a sampling methodology to collect and weigh municipal solid waste (MSW) in multiple communities to achieve an accurate rate. By obtaining partnerships with local waste haulers and recyclers, staff coordinated and facilitated random sampling of households in Genesee County in regards to the amount (weight) of material recycled versus the total amount of waste material generated. Through the use of the U.S. Environmental Protection Agency's standardized method for calculating recycling rates, we were able to determine the rate for each jurisdiction sampled while using those figures to calculate rates for jurisdictions with similar traits and number of households.



Genesee County Recycling Rate: (Total MSW Recycled/Total MSW Generated) x 100

*Municipal Solid Waste consists of both trash and recyclables

Since surveying every local unit of government would have proved too time-consuming, staff developed a system to survey local units in each of the following categories:

1. **City**
2. **Urban Township** (> 5,000 housing units)
3. **Rural Township** (< 5,000 housing units)

Through sampling of each category, an average weight recycled and average weight of waste generated per household was determined. This was then used to calculate the recycling rate for each of the other local jurisdictions, for which recycling data was not provided. We were able to calculate an estimated countywide recycling rate, as well as an estimated recycling rate by jurisdiction. An average weight recycled for the City of Flint was determined through weights accepted at Great Lakes Recycling as well as through recyclables accepted in City of Flint neighborhoods through their use of the Genesee County Recycling Trailer. The residential waste generation data was also provided by local waste haulers through a survey conducted by GCMPC staff. These weights were provided by haulers as an “annual waste generated” figure and was converted by staff to reflect the “weekly waste generated” for each local unit, and eventually the average amount of “waste land-filled” per household on a weekly basis.

People in the United States go through 25 billion plastic bottles annually and make enough plastic film each year to shrink-wrap the state of Texas.

- LiveStrong.com

In order to get a sample with a 95% confidence level with a 5% confidence interval, 350 or more households were surveyed in each local unit. There was no sorting of materials, just strictly weighing the material that comes in on the truck.

In relationship to the 2005 study, the new figures produce a different picture of the waste system in Genesee County. Specifically, in 2005, the “waste generated” figure was estimated using a rate of 3.7 lbs per person per day or 65.2 lbs per household per week. While at the time this rate seemed reliable, our current data of 40 lbs per household per week suggests it may have been skewed a

little high, which in turn lowered our overall recycling rate. The current data was compiled from local waste haulers, and then validated with data from surrounding communities. When compared to the communities that make up the Resource Recovery & Recycling Authority of Southwest Oakland County (RRRASOC) to the south of Genesee County, the recovery rates of lbs per household per week were nearly identical. However, the residential waste generated numbers show quite a difference, indicating that Genesee County may need to continue to improve efforts to increase recycling per household.

Waste Landfilled & Recycling Data (Residential Only)		
Area	Recycling lbs/HH/wk	Waste Landfilled lbs/HH/wk
Genesee County	6.08	40.03
RRRASOC	6.31	31.57

RRRASOC members include Farmington, Farmington Hills, Novi, Southfield, South Lyon, Walled Lake, and Wixom

Genesee County Waste & Recycling Services

The vast majority of Genesee County communities are considerably ahead of the game in providing waste and recycling services for their residents as most have a negotiated a waste and recycling contract with a single waste hauler. Ultimately, this practice keeps service premiums to a minimum but this certainly is not the only benefit. With a single waste hauler, truck routing sends out the least amount of trucks needed, consequently doing less damage to our local roads and emitting less of their harmful emissions. It should also be noted that the figures in this report do not include multi-family housing, as data for these households is not readily available. Realistically, these residents are not included in curbside recycling services covered by the municipal contract as each development usually negotiates their own contract with a chosen waste hauler.

Curbside Recycling Accessibility Countywide			
Year	Total Households	Households w/ Curbside Recycling	Percentage w/ Curbside
2005	169,825	68,331	40.24%
2010	170,739	112,337	65.79%

Since 2005, the recycling options have expanded significantly for area residents. Not only do more people have access to recycling than ever before, but the types of materials they are able to be recycled have also expanded. Many of the curbside programs have expanded to accept #3-#7 plastics as well as all types of paper and cardboard products.

Genesee County Annual Residential Waste Generated (excludes Multi-Family)	
Local Units of Government	Waste Generated (tons)
Argentine Township	2,694
Atlas Township	2,344
Clayton Township*	2,621
Davison Township	5,964
Fenton Township	7,082
Flint Township	15,002
Flushing Township	4,421
Forest Township*	1,455
Gaines Township*	2,442
Genesee Township	9,643
Grand Blanc Township	12,767
Montrose Township	3,082
Mt. Morris Township*	8,524
Mundy Township	6,028
Richfield Township	3,136
Thetford Township	2,640
Vienna Township*	2,824
City of Burton*	10,410
City of Clio	2,755
City of Davison	1,625
City of Fenton	3,746
City of Flint	32,839
City of Flushing*	4,344
City of Grand Blanc*	1,932
City of Linden*	1,506
City of Montrose*	605
City of Mt. Morris	1,354
City of Swartz Creek	1,926
Village of Gaines*	142
Village of Goodrich	757
Village of Lennon*	178
Village of Otisville	249
Village of Otter Lake*	156
Total	157,196

In terms of population, a large majority of Genesee County residents have access to curbside recycling. Of the 33 local units of government in the County, 32 of them offer curbside to their residents through the assistance of a local waste hauler. The City of Flint is the only municipality that does not currently have recycling at the curb. The City of Flint accounts for nearly 25% of the population of Genesee County and adding curbside service for their residents would make a very positive impact on the local waste system. Since 2005, the amount of households in the county with access to curbside recycling has increased by about 40%. Generally, the #1 barrier to recycling is accessibility and with increases in curbside programs we will most likely see an increase in recycling. While there will always be room for improvement on the education end, and with the expansion of acceptable items, Genesee County is in a prime position to greatly increase recycling rates with the current availability of recycling options.

Genesee County Residential Recycling Rate

In 2005, the Genesee County recycling diversion rate was 2.81%. This represents that just 6 short years ago; only 2.8% of all residential waste materials generated in Genesee County were recovered for recycling. In relationship to State and National averages, this is extremely low.

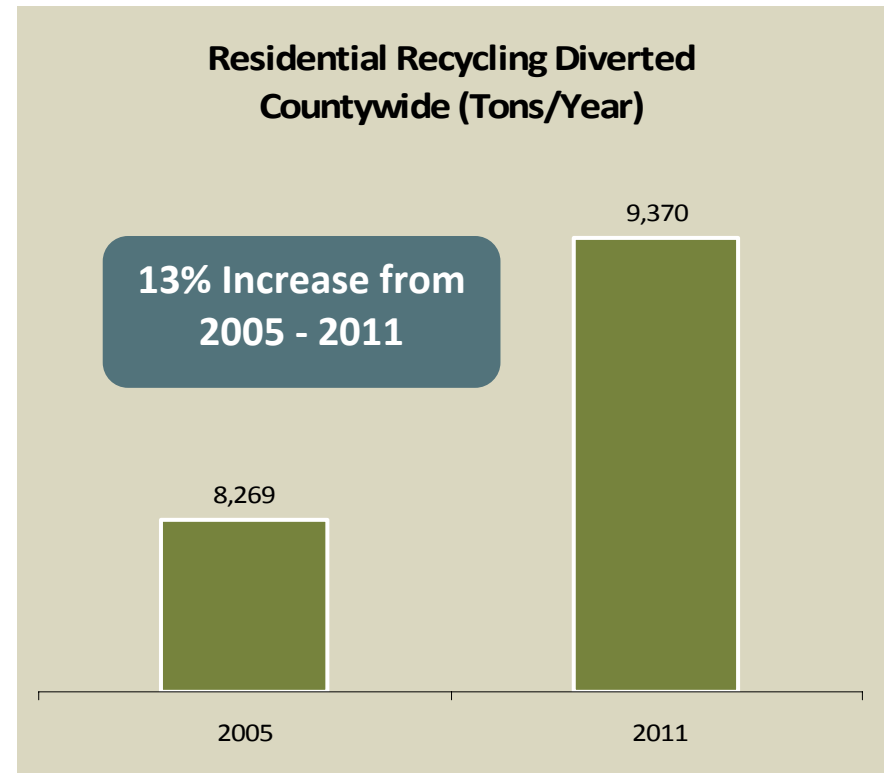
2011 Countywide Residential Recycling Rate: 6%

As of 2011, the Genesee County Residential Recycling Rate has climbed to 6%. Much of this growth has occurred in the more urban areas. The urban townships like Grand Blanc, Flint, Davison, Genesee and Mundy have seen considerable growth in their recycling program since 2005. Many of the County’s larger cities like Swartz Creek, Grand Blanc, Fenton, and *(text to continue after the Residential Recycling Diverted charts)*

Genesee County Residential Recycling Rates

Local Units of Government	Total Recycled (lbs/wk)	Total Landfilled (lbs/wk)	Total Waste Generated (lbs/wk)	Recycling Rate
Argentine Township	1,628	102,000	103,628	1.6%
Atlas Township	2,157	88,000	90,157	2.4%
Clayton Township*	4,716	96,077	100,793	4.7%
Davison Township	19,503	209,885	229,388	8.5%
Fenton Township	14,695	257,692	272,387	5.4%
Flint Township	51,000	526,000	577,000	8.8%
Flushing Township	13,333	156,692	170,026	7.8%
Forest Township*	2,197	53,769	55,966	3.9%
Gaines Township*	3,602	90,308	93,909	3.8%
Genesee Township	25,297	345,577	370,874	6.8%
Grand Blanc Township	63,933	427,115	491,049	13.0%
Montrose Township	5,034	113,500	118,534	4.2%
Mt. Morris Township*	11,547	316,308	327,854	3.5%
Mundy Township	17,859	214,000	231,859	7.7%
Richfield Township	1,437	119,192	120,629	1.2%
Thetford Township	2,863	98,692	101,555	2.8%
Vienna Township*	6,619	102,000	108,619	6.1%
City of Burton*	36,588	363,808	400,395	9.1%
City of Clio	7,251	98,692	105,944	6.8%
City of Davison	2,742	59,769	62,512	4.4%
City of Fenton	15,776	128,308	144,084	10.9%
City of Flint	5,666	1,257,385	1,263,051	0.4%
City of Flushing*	10,370	156,692	167,062	6.2%
City of Grand Blanc*	10,704	63,615	74,319	14.4%
City of Linden*	4,235	53,692	57,927	7.3%
City of Montrose*	1,943	21,308	23,251	8.4%
City of Mt. Morris	403	51,692	52,095	0.8%
City of Swartz Creek	13,626	60,462	74,087	18.4%
Village of Gaines*	237	5,231	5,468	4.3%
Village of Goodrich	2,784	26,346	29,130	9.6%
Village of Lennon*	278	6,577	6,855	4.0%
Village of Otisville	54	9,538	9,592	0.6%
Village of Otter Lake*	322	5,692	6,014	5.4%
Total	360,398	5,685,615	6,046,013	6.2%

Residential Recycling Diverted 2005 vs. 2011		
Local Units of Government	2005 Recycling (tons/yr)	2011 Recycling (tons/yr)
Argentine Township	181	42
Atlas Township	168	56
Clayton Township*	86	123
Davison Township	529	507
Fenton Township	506	382
Flint Township	699	1,326
Flushing Township	176	347
Forest Township*	58	57
Gaines Township*	93	94
Genesee Township	323	658
Grand Blanc Township	995	1,662
Montrose Township	9	131
Mt. Morris Township*	331	300
Mundy Township	532	464
Richfield Township	273	37
Thetford Township	170	74
Vienna Township*	356	172
City of Burton*	730	951
City of Clio	55	189
City of Davison	177	71
City of Fenton	463	410
City of Flint	244	147
City of Flushing*	265	270
City of Grand Blanc*	315	278
City of Linden*	83	110
City of Montrose*	28	51
City of Mt. Morris	108	10
City of Swartz Creek	235	354
Village of Gaines*	10	6
Village of Goodrich	48	72
Village of Lennon*	7	7
Village of Otisville	19	1
Village of Otter Lake*	1	8
Total	8,269	9,370



Genesee County Recycling Participation			
Local Units of Government	Households Served (excludes multi-family)	Participation Rate	Participating Households
Argentine Township	2,552	20%	510
Atlas Township	2,200	38%	836
Clayton Township*	2,629	38%	1,003
Davison Township	5,320	47%	2,500
Fenton Township	5,837	53%	3,094
Flint Township	11,435	40%	4,574
Flushing Township	3,885	40%	1,554
Forest Township*	1,508	31%	467
Gaines Township*	2,472	31%	766
Genesee Township	7,445	42%	3,127
Grand Blanc Township	10,785	52%	5,608
Montrose Township	1,926	33%	636
Mt. Morris Township*	7,925	31%	2,457
Mundy Township	5,367	55%	2,952
Richfield Township	2,989	19%	568
Thetford Township	2,469	34%	839
Vienna Township*	4,543	31%	1,408
City of Burton*	10,938	50%	5,469
City of Clio	1,029	54%	556
City of Davison*	2,039	50%	1,020
City of Fenton*	4,358	50%	2,179
City of Flint*	n/a	5%	2,024
City of Flushing*	3,100	50%	1,550
City of Grand Blanc*	3,200	50%	1,600
City of Linden*	1,266	50%	633
City of Montrose*	581	50%	291
City of Mt. Morris	1,068	17%	182
City of Swartz Creek	2,196	56%	1,230
Village of Gaines*	128	31%	40
Village of Goodrich*	538	50%	269
Village of Lennon*	150	31%	47
Village of Otisville	285	12%	34
Village of Otter Lake*	174	31%	54
TOTAL	112,337	39%	50,075

* Calculated Estimated Rate

Burton have also seen considerable growth in their recycling programs. Overall, Genesee County has seen over a 13% increase in the amount of recyclables recovered in residential programs since 2005. The increase can be attributed to a number of different factors. The number one contributor to this growth is likely the increased accessibility to quality recycling programs. Local units of government are realizing the benefits of curbside recycling and have made it a priority to provide these services to their residents. In fact, some of the townships seeing above average growth are currently offering the ‘Rewards 4 Recycling’ affinity program to their residents in addition to normal curbside services. This may be a factor in their increased success. It is certainly reasonable to contribute some of this growth to GCMPC’s extensive education & outreach programs. Since 2006, GCMPC launched a recycling awareness campaign, invested in the Borrow Our Bins program, purchased a County Recycling Trailer, and implemented a school recycling education campaign, not to mention the countless hours of outreach and promotion at area events. Lastly, something should be said about the public mindset. Since the last rate study was completed, the idea of “going green” and building sustainable communities has spread like wildfire, and we have certainly realized some of these benefits in Genesee County.

Also provided through partnerships with local waste haulers were the average participation rates for a number of local units throughout Genesee County. On a countywide average, 39% of the households in Genesee County participate in some form of residential recycling program.



Part 2: Strategies for Improvement

Why Boost Recycling in Genesee County?

A 2006 study produced by Public Sector Consultants, and reinforced by the Michigan Recycling Coalition in 2011 shows that increasing the recycling rate in Michigan from the current level of 20% (2001 estimate) to the average of the other Great Lakes states (30%), would produce a total increase of 6,810 to 12,986 jobs, approximately \$155 to \$300 million in income, and approximately \$1.8 to \$3.9 billion in receipts (accounting for multiplier effects). This additional income would generate about \$12 to \$22 million in state tax revenue. The economic benefits of recycling are real, and we believe Genesee County should capitalize on them. Not only will

increased recycling create jobs and foster economic growth, but it also preserves our valuable landfill space—something Genesee County is rapidly running out of. The PSC study goes on to state that “given Michigan’s job prospects, unemployment rate, and economic outlook, capturing the economic benefits provided by increased recycling should be made a priority for the state,” and we believe Genesee County should follow suit.

Incinerating 10,000 tons of waste creates one job; land filling 10,000 tons of waste creates six jobs; recycling 10,000 tons of waste creates 36 jobs.

- Earth911.org



The ‘State’ of Recycling?

In 2011, the Michigan Recycling Coalition (MRC) commissioned a report on the status of recycling in our State and discussed possibilities on how to move us forward in that realm. The MRC reports that from 1994 to 2004, the recycling rate in Michigan decreased by a whopping 20%. And unfortunately from there, the per capita recycling rate has remained stagnant, sufficiently behind the rates of other mid-west states and the nation as a whole. Currently, the state is operating under a 2007 Statewide Solid Waste policy. The State Solid Waste Policy uses the three principles of sustainability –economic vitality, ecological integrity, and improved quality of life– to guide solid waste management decisions. This policy includes goals such as finding uses for 50% of Michigan’s municipal solid waste by 2015 and ensuring

that all Michigan citizens have convenient access to residential recycling programs by 2012. Currently, the MDEQ has been instructed by Governor Snyder to draft a new Statewide Solid Waste Policy updating these goals by July 2012. At a minimum this mandated state-level report is to “identify options for long-term funding for the solid waste management program. For each option, the report shall take into account the extent to which additional activities or materials, or both, such as recycling, composting, and beneficial

reuse would impact the long-term funding of the solid waste management program.” Genesee County is excited about the possibility of future programs and funding geared toward reducing waste and increasing the recovery of valuable resources through recycling. Furthermore, we support the MRC’s 2011 study, and agree that the State should make the necessary investments in the solid waste management system to support greater recovery rates and bring the economic development benefits associated with recycling to the residents of Michigan and Genesee County alike.

Increasing Genesee County Participation

In studying the participation rates of the local communities in Genesee County, we have discovered there are definite benefits and obvious shortfalls in resident participation in the local recycling programs.

Get Flint Recycling!

❖ **Over 65 million pounds of waste are generated per year by the City of Flint**

Opportunity for:

❖ **Over 40,000 additional households to have access to recycling**

❖ **Diversion of 14 million pounds of waste from area landfills annually** (assuming the average 6.69 pounds per households per week for cities)

The principal shortfall in Genesee County is the absence of a residential recycling program in the City of Flint. The City of Flint makes up nearly a quarter of the population in Genesee County and is behind the times in by not offering recycling to its residents. Currently we estimate that roughly 5% of households in the City of Flint are participating in a residential recycling program. With the implementation of a recycling program, backed by a resident education program, the county participation average of 29% could easily be attainable. Due to the current absence of a program in Flint, we estimate there are an added 65 million pounds of waste per year going to area landfills that would otherwise be diverted. Simply adding curbside recycling in the City of Flint could realistically bring over 12,000 additional households into the recycling realm with the adoption of a pilot program that incorporates neighborhoods gradually.



The aluminum can is infinitely recyclable. A recycled can is able to be back on the shelf in as little as 60 days – using 95% less energy and 95% less greenhouse gas emissions than creating a can from new metal.

- Aluminum Association

Another serious shortfall is the lack of recycling options for multi-family residents in Genesee County. The 2010 U.S. Census American Community Survey estimates that multi-family units make up roughly 17% of the housing in our local communities, and virtually all of them do not offer recycling to their residents. There are a number of challenges surrounding the waste systems in place in multi-family housing. Each development contracts with a waste hauler of their choice, and recycling is generally not a part of that discussion. This is not only a void in our solid waste system, but a void all over the state and nation. However, some communities have made advances in multi-family recycling through local ordinances. Ann Arbor, MI currently has a municipal ordinance in place mandating that all property managers are required to offer their residents the opportunity to recycle. Communities are encouraged to explore the feasibility of extending recycling options to multi-family residences by local ordinance or any other method they choose. Extending these options to multi-family dwellers could equip an additional 27,000 households with the tools needed to greatly reduce their impact on local waste streams.

Incentive Programs

Incentive programs are not new to the public waste realm by any means, but can often help achieve favorable results for resource recovery efforts. Affinity programs and Pay-As-You-Throw waste collection can help communities boost recycling rates and decrease the amount of waste their residents contribute to Genesee County's three landfills.

Affinity Programs

To date, the best method for increasing residential recycling participation locally has been the addition of a recycling affinity program. These programs encourage residents to participate in their local curbside recycling program by offering them “rewards” for doing so. Rewards generally come in the form of discounts and deals to local and national merchants. These programs track a resident's participation in the local recycling program and reward them based on their level of participation. Currently, [Rewards for Recycling](#) is operating in several Genesee County communities and has shown that this program does increase recycling



participation among local residents. [Recyclebank](#) is a similar program operating in the State of Michigan and throughout the nation. Both programs should be researched to determine the best fit for a particular community.

Pay-As-You-Throw (PAYT) Programs

Currently, in most communities in Genesee County, waste disposal remains inexpensive and the complete economic benefits of recycling may not be fully accounted for. Most residents are receiving inexpensive, unlimited trash service. In an effort to moderate this unlimited waste generation and disposal model, communities are encouraged to explore the benefits of implementing a pay-as-you-throw collection system. Under a PAYT program residents are charged for waste collection services based on how much they are throwing away. This pay structure is similar to other public utilities like electricity, gas, and water. PAYT programs can be structured in a number of different ways but the most common method is volume-based. Residents are charged a fee for each cart or bag of trash they put out to the curb each week. Often communities require that residents purchase special trash bags or affix stickers to bags of refuse. Currently, the City of Fenton is the only community utilizing a PAYT program in Genesee County. The key to any first-rate program is education before implementation. Communities that deem this program a good fit for their residents are encouraged to provide thorough education on the benefits and guidelines of the program prior to its inception.

Education, Education, Education

One of the biggest barriers to recycling is just a simple lack of knowledge. Residents are not always readily informed on where to recycle, and what types of materials are accepted—and it's really not their fault! Programs change, people move, and contracts expire. It is up to the trash haulers and local units of governments to keep the residents abreast of what services are offered when. Unfortunately, staff time and priority is not always given to this activity.

Pay-As-You-Throw

At a Glance

✓ **Equitable**

PAYT programs are fair programs. Residents are only charged for the waste they throw away

✓ **Economical**

Residents that reduce and recycle save money—and less waste helps municipalities cut costs too.

✓ **Sustainable**

Fewer natural resources are used and landfill space is saved, reducing the need to site new facilities.

Source: U.S. Environmental Protection Agency

USDA Rural Solid Waste Grants

Every year, the [United States Department of Agriculture](#) accepts applications for solid waste management grants to “provide technical assistance and/or training to help communities reduce the solid waste stream.” These grants are available to public bodies as well as private non-profit organizations. As the data shows, the rural areas in Genesee County are marked with some of the lower rates of recycling. This grant program offers an excellent opportunity for communities to ramp up their education efforts or design a new education program all together to encourage recycling among their residents. Pointed education directed specifically at the residents should be considered a priority. Direct mailings with tax bills, local contests, community outreach meetings are all viable options. These particular grants can range from \$15,000 to \$200,000 and do not seem to be highly sought after as there are many repeat grantees from year to year. This is a potential low-hanging fruit for Genesee County and its communities.

County Mini-Grants

Another potential source of education program stimulation could come from the Genesee County Solid Waste program. A mini-grant program, funded through County solid waste ordinance dollars and administered by county staff, could be offered to localities throughout Genesee County. County staff would have a yearly “request for proposals” in which they rate and eventually award the best suited programs. Eligibility would be extended to local governments and non-profits. Currently, a few mini-grants a year ranging from \$5,000 to \$10,000 could be supported by the County and could potentially fuel a recycling renaissance.

