



GRETCHEN WHITMER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF  
ENVIRONMENT, GREAT LAKES, AND ENERGY

LANSING

LIESL EICHLER CLARK  
DIRECTOR

January 21, 2022

VIA E-MAIL

Mr. Robert E. Schneider, Chairman  
Roscommon County Board of Commissioners  
P.O. Box 156  
Roscommon, Michigan 48653

Dear Mr. Schneider:

The locally approved amendment to the Roscommon County Solid Waste Management Plan (Plan Amendment) received by the Department of Environment, Great Lakes, and Energy (EGLE), Materials Management Division, on September 22, 2021, is hereby approved with the clarifications below.

The amendment makes the following changes:

- Adds additional counties to the Future Import Authorization Table. Specifically, Alcona, Alpena, Antrim, Arenac, Benzie, Charlevoix, Cheboygan, Emmet, Gladwin, Grand Traverse, Iosco, Isabella, Kalkaska, Lake, Leelanau, Manistee, Mason, Mecosta, Midland, Missaukee, Newago, Oceana, Ogemaw, Osceola, Otsego, Presque Isle, and Wexford counties are added for primary disposal.
- Removes the exportation restriction requiring specific facilities be used for the receipt of waste exported from Roscommon County, by removing the facility names in the Export Authorization Table.
- Adds additional counties to the Export Authorization Table. Specifically, Alcona, Alpena, Antrim, Arenac, Benzie, Charlevoix, Cheboygan, Emmet, Gladwin, Grand Traverse, Iosco, Isabella, Kalkaska, Lake, Leelanau, Manistee, Mason, Mecosta, Midland, Missaukee, Newago, Oceana, Ogemaw, Osceola, Otsego, Presque Isle, and Wexford counties are added for primary disposal.
- Adds additional disposal areas that will be utilized to provide the required capacity and management needs for the solid waste generated within the County.
  - Specifically, the following landfills: Glen's Sanitary Landfill, Inc. (Leelanau County); Harland's Landfill, also known as Manistee County Landfill (Manistee County); GFL North Michigan Landfill, LLC, also known as Elk Run Landfill (Presque Isle County); and Wexford County Landfill, LLC (Wexford County) are added.
  - Specifically, the following Type A Transfer Facilities: American Waste Transfer Station, LLC/Processing/Materials Recovery Facility and American Waste - Traverse - Sundowner Transfer Station (Grand

Traverse County); Northern A-1 Services (Kalkaska County); Antrim County Solid Waste Facility (Antrim County); GFL Cheboygan Transfer Facility (Cheboygan County); Billy's M-61 Transfer Station (Arenac County); WM/ - West Branch Transfer Station (Ogemaw County); Bay City Transfer Station (Bay County); Greenway/L&N Disposal Transfer Station and Processing Plant (Alpena County); and WM/ - East Tawas Transfer Station (Iosco County) are added.

- Specifically, the following processing plants: American Waste Transfer Station, LLC/Processing/MRF (Grand Traverse County), and Northern A-1 Services (Kalkaska County); Antrim County Solid Waste Facility (Antrim County); and Greenway/L&N Disposal Transfer Station and Processing Plant (Alpena County) are added.
- Includes facility descriptions for each of the above added disposal facilities.
- Authorizes the siting of processing plants as well as Type A and Type B transfer facilities that are owned and operated publicly, privately, or through some combination of the two.

The following should be noted regarding the Plan Amendment:

The Plan Amendment includes language authorizing the siting of a Recycling Plant. However, Solid Waste Management Plans do not regulate facilities other than disposal facilities that manage solid waste. Source or site separated recyclable materials are not defined as solid waste. Therefore, any reference to siting a Recycling Plant throughout the Plan Amendment is only a reference and is not a valid facility type for siting.

EGLE would like to thank Roscommon County for its efforts in addressing its materials management issues. If you have any question, please contact Ms. Christina Miller, Solid Waste Planning Specialist, Sustainable Materials Management Unit, Solid Waste Section, MMD, at 517-614-7426; EGLE-MaterialsManagementPlanning@michigan.gov; or EGLE, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,



Elizabeth M. Browne, Director  
Materials Management Division  
517-242-2746

cc: Senator Curt VanderWall  
Representative Daire Rendon  
Ms. Jodi Valentino, Administrator/Controller, Roscommon County  
Ms. Liesl Eichler Clark, Director, EGLE  
Mr. Aaron B. Keatley, Chief Deputy Director, EGLE  
Mr. Travis Boeskool, Legislative Liaison, EGLE  
Mr. Hugh C. McDiarmid Jr., EGLE  
Ms. Tracy Kecskemeti, EGLE  
Ms. Rhonda S. Oyer, EGLE  
Mr. Jeff Spencer, EGLE  
Mr. Phil Roycraft, EGLE  
Ms. Christina Miller, EGLE  
Ms. Carlie Money, EGLE  
Ms. Amy Karana, EGLE/Roscommon County File



**ROSCOMMON COUNTY**  
**BOARD OF COMMISSIONERS**  
500 LAKE STREET, ROSCOMMON, MICHIGAN 48653  
www.roscommoncounty.net

Robert E. Schneider, Chairman  
Ken Melvin, Vice-Chair  
Marc J. Milburn, Commissioner  
David Russo, Commissioner  
Timothy Muckenthaler, Commissioner

September 20, 2021

Sustainable Materials Management Unit  
Solid Waste Section  
Materials Management Division  
Department of Environment, Great Lakes, and Energy  
PO Box 30241  
Lansing, Michigan 48909-7741

*Via FedEx and Electronic Mail - millercf@michigan.gov*

**Re: Roscommon County Solid Waste Management Plan Amendment**

Enclosed please find a resubmittal of the amended Roscommon County Solid Waste Management Plan. Roscommon County is submitting the amendment to its current approved solid waste management plan in accordance with Rule 709 of the Solid Waste Management Act Administrative Rules promulgated pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The initial submittal, made to EGLE on May 5, 2021, did not include all the necessary information for proper review and approval by EGLE. That additional documentation along with the material initially provided is enclosed herein.

The proposed amendment was released for public review on January 25 and February 20, 2020. A public hearing was held on March 11, 2020. The proposed amendment was modified, as appropriate, based on public comments received and approved by the Solid Waste Management Planning Committee on May 13, 2020

On June 10, 2020, the Board of Commissioners approved the amendment without changes and authorized its release to the municipalities for approval.

Roscommon County received approval of the amendment through resolution of at least 67% of its municipalities. Of the twelve (12) municipalities within the county, eleven (11) approved the resolution and one (1) denied the resolution.

Documentation pertaining to the amendment is attached for department review. If you have any questions, comments, or concerns, please contact Ms. Vicki Garon at 248.255.8280 or the undersigned.

Sincerely,

Robert E. Schneider  
Chairman  
Roscommon County Board of Commissioners

Enclosures

**LETTER OF INTENT**



Michigan Department of Environment, Great Lakes, and Energy  
Materials Management Division

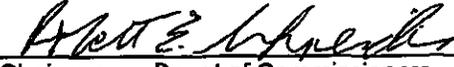
**COUNTY'S NOTICE OF INTENT TO PREPARE  
COUNTY SOLID WASTE MANAGEMENT PLAN AMENDMENT**

*Authorized by Section 11533, Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Section 11533 indicates that the County, Municipalities, or Regional Planning Agency (as appropriate) shall notify the State as to their intent with regard to preparation of a County Solid Waste Management Plan Amendment.*

The County of Roscommon does hereby serve notice that it:

will

prepare and file with the State of Michigan, Department of Environment, Great Lakes, and Energy, Materials Management Division an amendment of its County Solid Waste Management Plan as provided by Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Such amendment plan shall fulfill all the requirements of Part 115, as well as all applicable administrative rules.

Signed by:   
Chairperson, Board of Commissioners

**Complete the following only if preparing plan amendment:**

<p>_____ The Roscommon County Solid Waste Management Planning Committee is designated by the above-named County as the agency responsible for preparation of the Solid Waste Management Plan Amendment. The address, contact person, and phone number for the County's designated planning agency is:</p>		
<p>Name of Contact Person: Barb Stauffer</p>		
<p>Name of Designated Planning Agency: Roscommon County Solid Waste Management Planning Committee</p>		
<p>Address of Agency: County Building 500 Lake Street, PO Box 156</p>		
<p>City: Roscommon</p>	<p>State: Michigan</p>	<p>Zip Code: 48653</p>
<p>Telephone: 989.275.3163</p>	<p>Fax: 989.275.3161</p>	
<p>E-mail Address: Barb.stauffer@macd.org</p>		

Please attach a copy of the Resolution or meeting minutes of the Board of Commissioners agreeing to prepare a plan amendment.

When completed, submit this form to: SUSTAINABLE MATERIALS MANAGEMENT UNIT  
SOLID WASTE SECTION  
MATERIALS MANAGEMENT DIVISION  
DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY  
PO BOX 30241  
LANSING MI 48909-7741

<p>County Notice of Intent received by Department of Environment, Great Lakes, and Energy, Materials Management Division</p> <p>By: _____ Date: _____</p>
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PROPOSED AMENDED COUNTY PLAN

## EXPLANATION OF CHANGES MADE TO THE PLAN

### PROPOSED AMENDMENT TO THE ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLAN

The following sections of the Roscommon County Solid Waste Management Plan Update dated December 2000 are amended as follows:

- **SECTION III – THE SELECTED SOLID WASTE MANAGEMENT SYSTEM**

The attached page III-2 replaces the same page in the 2000 plan.

The current language allows the establishment of a publicly and/or privately operated Type A and Type B transfer station anywhere in the County (bullet number 7 Transfer Facilities). The language further states that the transfer station could also serve as a point for collection and separation of recyclable materials.

**The proposed amendment would authorize the operation of a processing plant as well as a transfer station, which could better provide as a point for separation and/or generation of recyclable and/or reusable materials.**

**The alternative language for bullet number 7 is as follows:**

*7. Transfer and Processing Facilities. The existing "Type B" transfer facilities will be continued under the selected plan. Additional Type B facilities may be established in the future by local government units, either in cooperation with the private solid waste industry or on their own. Type B facilities may be established under this plan as needed without any further siting review process. Also, a "Type A" transfer facility (one that requires licensing by EGLE) and/or a processing plant may also be developed under the selected plan. A Type A facility and/or processing plant could be owned and operated publicly, privately, or through some combination. Such a facility may be desirable in the future to make the transfer of solid waste to landfills in other counties more efficient, and it could also serve as a point for collection and separation of recyclable materials. The establishment of a Type A transfer facility and/or processing plant will also be consistent with the plan.*

- **SECTION III – IMPORT AUTHORIZATION**

The attached page III-4, Table 1-B (Future Import Authorization), replaces the same page in the 2000 plan.

The current import authorization detailed in Table 1-B includes Clare, Bay, Crawford, Montmorency, and Oscoda Counties.

**The proposed amendment would authorize additional counties (counties north of M-46 in the lower peninsula) to export solid waste into Roscommon County should a solid waste disposal area be constructed and operated.**

**The proposed amended language to the Future Import Authorization is as follows:**

- *Add Alcona, Alpena, Antrim, Arenac, Benzie, Charlevoix, Cheboygan, Emmet, Gladwin, Grand Traverse, Iosco, Isabella, Kalkaska, Lake, Leelanau, Manistee, Mason, Mecosta, Midland, Missaukee, Newago, Oceana, Ogemaw, Osceola, Otsego, Presque Isle, and Wexford Counties to Table 1-B as Primary Disposal.*

- **SECTION III – EXPORT AUTHORIZATION**

The attached page III-5, Table 2-A (Export Authorization), replaces the same page in the 2000 plan.

The current export authorization detailed in Table 1-B includes Clare County to Northern Oaks, Bay County to Whitefeather Landfill, Crawford County to Waters Landfill, and Montmorency County to Montmorency-Oscoda Landfill.

**The propose amendment would remove facility names thereby removing the restriction to using specific facilities in that county.**

**The proposed amendment would authorize additional counties (counties north of M-46 in the lower peninsula) to export solid waste from Roscommon County to the named importing County to provide additional options for the County.**

**The proposed amended language to the Export Authorization is as follows:**

- *Removal of specific Facility Names in counties Clare, Bay, Crawford and Montmorency*
- *Add Alcona, Alpena, Antrim, Arenac, Benzie, Charlevoix, Cheboygan, Emmet, Gladwin, Grand Traverse, Iosco, Isabella, Kalkaska, Lake, Leelanau, Manistee, Mason, Mecosta, Midland, Missaukee, Newago, Oceana, Ogemaw, Osceola, Oscoda, Otsego, Presque Isle, and Wexford Counties to Table 1-B as Primary Disposal.*

- **SECTION III – SOLID WASTE DISPOSAL AREAS**

The attached page III-6 replaces the same page in the 2000 plan.

The current language identifies the names of existing disposal areas which will be utilized to provide the required capacity and management needs for the solid waste generated within the County. The current list of identified facilities includes:

- *Type II Landfills – Northern Oaks (Clare County), Republic Services of Pinconning aka Whitefeather (Bay County), Waters (Crawford County), and Montmorency-Oscoda (Montmorency County).*
- *Type A Transfer Facilities – None currently – could be developed under updated plan.*
- *Processing Plants - None*

**The proposed amendment would list additional existing disposal areas that will be utilized to provide the required capacity and management needs within the County.**

**The proposed amended language to the list of identified disposal areas is as follows:**

- *Type II Landfills - Add Leelanau County (Glen's Landfill), Manistee County (Harland's aka Manistee County Landfill), Presque Isle County (GFL North Michigan aka Elk Run Landfill), and Wexford County (Wexford County Landfill)*
- *Type A Transfer Facilities – Add Grand Traverse County (American Waste Transfer Station/Processing/MRF and American Waste - Sundowner Transfer Station), Kalkaska County (Northern A-1 Services), Antrim County (Antrim County Solid Waste Facility), Cheboygan County (GFL Cheboygan Transfer Facility), Arenac County (Billy's M-61 Transfer Station), Ogemaw County (WMI - West Branch Transfer Station), Bay County (Bay City Transfer Station), Alpena County (Greenway/L&N Disposal Transfer Station and Processing Plant), and Iosco County (WMI - East Tawas Transfer Station)*

- *Processing Plants – Add Grand Traverse County (American Waste Transfer Station/Processing/MRF) and Kalkaska County (Northern A-1 Services) Antrim County (Antrim County Solid Waste Facility), and Alpena County (Greenway/L&N Disposal Transfer Station and Processing Plant)*

- **SECTION III – FACILITY DESCRIPTIONS**

The attached pages III-10.A through III-10.N are added to the 2000 plan.

**The proposed amendment would include additional facility descriptions for the facilities that have been added as stated above in Section III – Solid Waste Disposal Areas.**

**The proposed amended language provides additional Facility Descriptions for the identified disposal areas as follows:**

- *Wexford County Landfill (Type II Landfill in Wexford County)*
- *American Waste Transfer Station/Processing/MRF (Transfer Station/Processing Plant in Grand Traverse County)*
- *Northern A-1 Services (Transfer Station/Processing Plant in Kalkaska County)*
- *Antrim County Solid Waste Facility (Transfer Station/Processing Plant in Antrim County)*
- *GFL Cheboygan Transfer Station (Transfer Station in Cheboygan County)*
- *Billy's M-61 Transfer Station (Transfer Station in Arenac County)*
- *Waste Management of Michigan - West Branch (Transfer Station in Ogema County)*
- *Bay City Transfer Station (Transfer Station in Bay County)*
- *American Waste Transfer Station (Transfer Station in Grand Traverse County)*
- *Greenway/L&N Disposal (Transfer Station/Processing Plant in Alpena County)*
- *Waste Management of Michigan - East Tawas Transfer Station (Transfer Station in Iosco County)*
- *GFL North Michigan Landfill, aka-Elk Run Landfill (Type II Landfill in Presque Isle County)*
- *Hartland's Sanitary Landfill, aka Manistee County Landfill (Type II Landfill in Manistee County)*
- *Glen's Sanitary Landfill (Type II Landfill in Leelanau County)*

- **SECTION III – SITING REVIEW PROCEDURES**

The attached page III-27 replaces the same page in the 2000 plan.

It is the County's intent to also authorize the siting of a processing plant. The current language only allows for the siting of a publicly and/or privately operated Type A and Type B transfer station.

The proposed amendment would authorize the siting of a processing plant as well as a transfer station.

**The proposed amended language to the Siting Review Procedures - Authorized Disposal Area Types is as follows:**

*Facilities Included in this Plan*

*The following facilities are deemed consistent with this Plan. Any new facility proposed in the County must meet all state law requirements, particularly Act 451.*

*Type "A" Transfer Facility*

*A Type A Solid Waste Transfer Facility may be developed under this Plan. The Solid Waste Transfer Facility may be owned and operated publicly, privately, or through some combination of the two.*

*Type "B" Transfer Facility*

*Existing Type B Transfer Facilities will be continued under this Plan. Additional Type B Transfer Facilities may be established in the future by local government units, either in cooperation with the private solid waste industry or on their own.*

*Processing Plant*

*A Solid Waste Processing and/or Recycling Plant may be developed under this Plan. The Solid Waste Processing and/or Recycling Plant may be owned and operated publicly, privately, or through some combination of the two.*

*Facilities Not Included in this Plan*

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

**The alternative language to the Siting Review Procedures - Siting Criteria and Process section is as follows:**

*The following process describes the criteria and procedures to be used to site solid waste disposal facilities and determine consistency with this Plan. (attach additional pages if necessary)*

*Roscommon County has well over 10-years of disposal capacity at various facilities identified in this Plan. Therefore, a siting process for new facilities is not required. Any new facility proposed in the County must meet all state law requirements, particularly Act 451.*

*Under the updated plan, the County and its municipalities intend to retain the option of developing a publicly owned disposal facility, should such a facility be in the County's best interest. In addition, a Type A Transfer Facility and/or a Processing Plant may also be developed under this Plan publicly, privately or combination of the two.*

- **Attachment D – Maps**

The attached Landfill Locations Map located directly after page D-5 replaces the same page in the 2000 plan.

The current Landfill Location Map shows the location of existing solid waste landfills utilized to provide the required capacity and management needs for the solid waste generated within the County. The current identified facilities on the map includes:

- Montmorency-Oscoda
- Northern Oaks
- Waters
- Whitefeather

**The proposed amendment would include additional facility descriptions for the facilities that have been added as stated above in Section III – Solid Waste Disposal Areas.**

**The proposed amended Landfill Location Map identifies additional landfill locations for the following landfills as follows:**

- *GFL North Michigan Landfill aka Elk Run Landfill*
- *Glens Landfill*
- *Manistee County Landfill*
- *Wexford County Landfill*

**Please see attached Amended sections for the 2000 Plan as described below:**

- **Replacement pages III-2, III-4, III-5, III-6, III-27 and the Landfill Locations Map**
- **Added pages III-4.A, III-5.A, and III-10.A thru III-10.N**

**THE FOLLOWING PAGES ARE THE ACTUAL PAGES FOR THE  
ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLAN**

## SELECTED SYSTEM

3. **Recycling.** Under the selected alternative, the current programs are encouraged to continue their operations. All local governments are encouraged to provide recycling opportunities for their residents, either through arrangements for drop-off sites or the provision of curbside collection for recyclables. The County and local units will also continue to explore the potential for cooperative recycling efforts both within the County and with other surrounding counties. Discussions on potential regional recycling projects are currently being held with Antrim, Crawford, Kalkaska, and Otsego Counties.
4. **Composting.** The plan encourages the continuation of the current municipal composting operations. "Backyard" composting by residents will also continue to be encouraged. All municipalities are encouraged to provide composting opportunities for their residents as needs dictate, either through curbside collection of yard wastes or through local drop-off sites. Again, the plan does not intend to limit the ability of any local government unit to establish a composting site and program. Cooperative arrangements among various government units will be explored under the selected system. Opportunities for regional composting programs in cooperation with surrounding counties will also be investigated.
5. **Separation of Household Hazardous Wastes.** There is presently no formal hazardous waste collection program in place. The high costs associated with such programs generally preclude the County from directly providing this type of service. The Northern Oaks Recycling and Disposal Facility in Clare County hold an annual Household Hazardous Waste Collection Day at the facility. Roscommon County residents are eligible to participate in this program. However, the County should also work in partnership with the private solid waste industry to explore ways to provide expanded opportunities for separation and collection of household hazardous wastes from residents.
6. **Resource Conservation and Waste Reduction.** Resource conservation and waste reduction will continue to be encouraged on a voluntary basis by residents, businesses, and industries. The County should investigate ways to expand public information and education in this area.
7. **Transfer and Processing Facilities.** The existing "Type B" transfer facilities will be continued under the selected plan. Additional Type B facilities may be established in the future by local government units, either in cooperation with the private solid waste industry or on their own. Type B facilities may be established under this plan as needed without any further siting review process. Also, a "Type A" transfer facility (one that requires licensing by EGLE) and/or a processing plant may also be developed under the selected plan. A Type A facility and/or processing plant could be owned and operated publicly, privately, or through some combination. Such a facility may be desirable in the future to make the transfer of solid waste to landfills in other counties more efficient, and it could also serve as a point for collection and separation of recyclable materials. The establishment of a Type A transfer facility and/or processing plant will also be consistent with the plan.

**SELECTED SYSTEM**

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**

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
Roscommon	Clare	_____	_____	_____	P
Roscommon	Bay	_____	_____	_____	P
Roscommon	Crawford	_____	_____	_____	P
Roscommon	Montmorency	_____	_____	_____	P
Roscommon	Oscoda	_____	_____	_____	P
Roscommon	Emmet	_____	_____	_____	P
Roscommon	Cheboygan	_____	_____	_____	P
Roscommon	Presque Isle	_____	_____	_____	P
Roscommon	Charlevoix	_____	_____	_____	P
Roscommon	Leelanau	_____	_____	_____	P
Roscommon	Antrim	_____	_____	_____	P
Roscommon	Otsego	_____	_____	_____	P
Roscommon	Alpena	_____	_____	_____	P
Roscommon	Benzie	_____	_____	_____	P
Roscommon	Grand Traverse	_____	_____	_____	P
Roscommon	Kalkaska	_____	_____	_____	P

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

<sup>2</sup> Authorization indicated by P=Primary Disposal; C=Contingency Disposal; \*=Other conditions exist and detailed explanation is included in the Attachment Section

**SELECTED SYSTEM**

<b>IMPORTING COUNTY</b>	<b>EXPORTING COUNTY</b>	<b>FACILITY NAME<sup>1</sup></b>	<b>AUTHORIZED QUANTITY/DAILY</b>	<b>AUTHORIZED QUANTITY/ANNUAL</b>	<b>AUTHORIZED CONDITIONS<sup>2</sup></b>
Roscommon	Alcona	_____	_____	_____	P
Roscommon	Manistee	_____	_____	_____	P
Roscommon	Wexford	_____	_____	_____	P
Roscommon	Missaukee	_____	_____	_____	P
Roscommon	Ogemaw	_____	_____	_____	P
Roscommon	Iosco	_____	_____	_____	P
Roscommon	Mason	_____	_____	_____	P
Roscommon	Lake	_____	_____	_____	P
Roscommon	Osceola	_____	_____	_____	P
Roscommon	Gladwin	_____	_____	_____	P
Roscommon	Arenac	_____	_____	_____	P
Roscommon	Oceana	_____	_____	_____	P
Roscommon	Newago	_____	_____	_____	P
Roscommon	Mecosta	_____	_____	_____	P
Roscommon	Isabella	_____	_____	_____	P
Roscommon	Midland	_____	_____	_____	P

Additional authorizations and the above information for those authorizations are listed on an attached page

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

<sup>2</sup> Authorization indicated by P=Primary Disposal; C=Contingency Disposal; \*=Other conditions exist and detailed explanation is included in the Attachment Section

**SELECTED SYSTEM**

**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**

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
Roscommon	Clare	_____	_____	_____	_____
Roscommon	Bay	_____	_____	_____	_____
Roscommon	Crawford	_____	_____	_____	_____
Roscommon	Montmorency	_____	_____	_____	_____
Roscommon	Oscoda	_____	_____	_____	_____
Roscommon	Emmet	_____	_____	_____	_____
Roscommon	Cheboygan	_____	_____	_____	_____
Roscommon	Presque Isle	_____	_____	_____	_____
Roscommon	Charlevoix	_____	_____	_____	_____
Roscommon	Leelanau	_____	_____	_____	_____
Roscommon	Antrim	_____	_____	_____	_____
Roscommon	Otsego	_____	_____	_____	_____
Roscommon	Alpena	_____	_____	_____	_____
Roscommon	Benzie	_____	_____	_____	_____

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

<sup>2</sup> Authorization indicated by P=Primary Disposal; C=Contingency Disposal; \*=Other conditions exist and detailed explanation is included in the Attachment Section

**SELECTED SYSTEM**

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
Roscommon	Grand Traverse	_____	_____	_____	_____
Roscommon	Kalkaska	_____	_____	_____	_____
Roscommon	Alcona	_____	_____	_____	_____
Roscommon	Manistee	_____	_____	_____	_____
Roscommon	Wexford	_____	_____	_____	_____
Roscommon	Missaukee	_____	_____	_____	_____
Roscommon	Ogemaw	_____	_____	_____	_____
Roscommon	Iosco	_____	_____	_____	_____
Roscommon	Mason	_____	_____	_____	_____
Roscommon	Lake	_____	_____	_____	_____
Roscommon	Osceola	_____	_____	_____	_____
Roscommon	Gladwin	_____	_____	_____	_____
Roscommon	Arenac	_____	_____	_____	_____
Roscommon	Oceana	_____	_____	_____	_____
Roscommon	Newago	_____	_____	_____	_____
Roscommon	Mecosta	_____	_____	_____	_____
Roscommon	Isabella	_____	_____	_____	_____
Roscommon	Midland	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Additional authorizations and the above information for those authorizations are listed on an attached page

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

<sup>2</sup> Authorization indicated by P=Primary Disposal; C=Contingency Disposal; \*=Other conditions exist and detailed explanation is included in the Attachment Section

## SELECTED SYSTEM

### 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 within the County for the next five years and, if possible, the next ten years. Pages III-7 through III-10, and pages III-10.A through III-10.C contain descriptions of the solid waste disposal facilities which are located within the County and the disposal facilities located outside of the 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 update is amended to identify additional facilities in other counties outside the 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.

#### Type II Landfill:

Northern Oaks (Clare County)  
Republic Services of Pinconning aka  
    Whitefeather (Bay County)  
Waters (Crawford County)  
Montmorency-Oscoda (Montmorency County)  
Wexford County Landfill (Wexford County)  
GFL North Michigan Landfill aka  
    Elk Run Landfill (Presque Isle County)  
Manistee County Landfill (Manistee County)  
Glens Landfill (Leelanau County)

#### Type A Transfer Facility:

American Waste Transfer Station/Processing/MRF  
Northern A-1 Services  
Antrim County Transfer Station/Processing Plant  
GFL Cheboygan Transfer Station  
Billy's M-61 Transfer Station  
WM of Michigan - West Branch Transfer Station  
Bay City Transfer Station  
American Waste - Sundowner Transfer Station  
Greenway/L&N Disposal  
WM of Michigan - East Tawas Transfer Station

#### Type III Landfill:

None

#### Incinerator:

None

#### Waste Piles:

None

#### Waste-to-Energy Incinerator:

None

#### Other:

#### Type B Transfer Facility:

Au Sable Township  
Backus Township  
Nester Township

#### Processing Plant:

American Waste Transfer Station/Processing/MRF  
Northern A-1 Services  
Antrim County Transfer Station/Processing Plant  
Greenway/L&N Disposal

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 the County's solid waste are in the Attachment Section.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Sanitary Type II Landfill

Facility Name Wexford County Landfill

County: Wexford

Location: 990 North Mackinaw Trail, Manton, Michigan 49663  
Town: 23N Range: 9W Section: 33/34

Map identifying location included 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: Not applicable

Public  Private Owner: American Waste

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: all other non-hazardous wastes regulated by Act 451, Part 115

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

- Lime, Asbestos, Wastewater Treatment Sludge, Street Sweepings, Foundry Sand, Ash, other non-hazardous wastes as defined in Act 451, Part 115 that require special handling or treatment

Site Size:

Total area of facility property:	<u>196.4</u>	acres
Total area sited for use:	<u>196.4</u>	acres
Total Area permitted:	<u>137.8</u>	acres
Operating:	<u>43.75</u>	acres
Not excavated:	<u>85.4</u>	acres

<b>Current Capacity:</b>	<b><u>19,034,000</u></b>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards
Estimated Lifetime:	<u>57</u>	years
Estimated days open per year:	<u>260</u>	days
Estimated yearly disposal volume:	<u>330,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards

(If applicable)

Annual energy production:

Landfill gas recovery projects:	_____	megawatts
Waste-to-energy incinerators:	_____	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station and Processing Facility

Facility Name Northern A-1 Services

County: Kalkaska

Location: 3947 US 131 N., Kalkaska, Michigan 49646  
Town: 27N Range: 7W Section: 4

Map identifying location included 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: Wexford County Landfill or other approved facility identified in Section III

Public  Private Owner: American Waste

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 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>recyclables</u> |

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

- Sludges for solidification

Site Size:

Total area of facility property:	<u>11.7</u>	acres
Total area sited for use:	<u>11.7</u>	acres
Total Area permitted:	<u>11.7</u>	acres
Operating:	<u>N/A</u>	acres
Not excavated:	<u>N/A</u>	acres

<b>Current Capacity:</b>	<u>N/A</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yards
Estimated Lifetime:	<u>N/A</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>100,000+</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yards

(If applicable)

Annual energy production:

Landfill gas recovery projects:	_____	megawatts
Waste-to-energy incinerators:	_____	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station and Processing Facility  
Facility Name American Waste Transfer Station/Processing/MRF  
County: Grand Traverse Location: 280 Hughes Drive, Traverse City  
Town: 27N Range: 11W Section: 4

Map identifying location included 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: Wexford County Landfill or other approved facility identified in Section III

Public  Private Owner: American Waste

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 type="checkbox"/> contaminated soils                   |
| <input type="checkbox"/> open, but closure              | <input type="checkbox"/> special wastes*                      |
| <input type="checkbox"/> pending                        | <input checked="" type="checkbox"/> other: <u>recyclables</u> |

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

Site Size:

Total area of facility property: 15.8 acres  
Total area sited for use: 15.8 acres  
Total Area permitted: 15.8 acres  
    Operating: N/A acres  
    Not excavated: N/A acres

Current Capacity: N/A  tons or  yards  
Estimated Lifetime: N/A years  
Estimated days open per year: 312 days  
Estimated yearly disposal volume: 170,000+  tons or  yards

(If applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station and Processing Facility

Facility Name Antrim County Solid Waste Facility

County: Antrim Location: 10164 M-32 Highway, Elmira, Michigan 49730  
Town: 31N Range: 5W Section: 23

Map identifying location included 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: Wexford County Landfill or other approved facility identified in Section III

Public  Private Owner: American Waste, Inc

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 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>recyclables</u> |

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

- Sludges for solidification

Site Size:

Total area of facility property:	<u>9.36</u>	acres
Total area sited for use:	<u>9.36</u>	acres
Total Area permitted:	<u>9.36</u>	acres
Operating:	<u>N/A</u>	acres
Not excavated:	<u>N/A</u>	acres

<b>Current Capacity:</b>	<u>N/A</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yards
Estimated Lifetime:	<u>N/A</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>100,000+</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yards

(If applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station

Facility Name GFL Cheboygan Transfer Station

County: Cheboygan

Location: 1307 Higgins Drive, Cheboygan, Michigan 49721  
Town: 33N Range: 2E Section: 5

Map identifying location included 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: Elk Run Landfill or other approved facility identified in Section III

Public  Private Owner: GFL Environmental

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: \_\_\_\_\_ acres  
Total area sited for use: \_\_\_\_\_ acres  
Total Area permitted: \_\_\_\_\_ acres  
    Operating: \_\_\_\_\_ acres  
    Not excavated: \_\_\_\_\_ acres

Current Capacity: \_\_\_\_\_  tons or  yards  
Estimated Lifetime: \_\_\_\_\_ years  
Estimated days open per year: 312 days  
Estimated yearly disposal volume: \_\_\_\_\_  tons or  yards

(If applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station

Facility Name Billy's M-61 Transfer Station

County: Arenac

Location: 1206 West M-61, Standish, Michigan 48658

Town: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_

Map identifying location included 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: Whitefeather Landfill or other approved facility identified in Section III

Public  Private Owner: Billy's Contracting, Inc.

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: \_\_\_\_\_ acres

Total area sited for use: \_\_\_\_\_ acres

Total Area permitted: \_\_\_\_\_ acres

Operating: \_\_\_\_\_ acres

Not excavated: \_\_\_\_\_ acres

**Current Capacity:** \_\_\_\_\_  tons or  yards

Estimated Lifetime: \_\_\_\_\_ years

Estimated days open per year: 312 days

Estimated yearly disposal volume: \_\_\_\_\_  tons or  yards

(If applicable)

Annual energy production:

Landfill gas recovery projects: \_\_\_\_\_ megawatts

Waste-to-energy incinerators: \_\_\_\_\_ megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station

Facility Name Waste Management of Michigan - West Branch Transfer Station

County: Ogemaw

Location: 2430 W. Flowage Lake Rd, West Branch, Michigan 48661  
Town: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_

Map identifying location included 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: Waters Landfill or other approved facility identified in Section III

Public  Private Owner: Waste Management of Michigan, Inc.

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: \_\_\_\_\_ acres  
Total area sited for use: \_\_\_\_\_ acres  
Total Area permitted: \_\_\_\_\_ acres  
    Operating: \_\_\_\_\_ acres  
    Not excavated: \_\_\_\_\_ acres

Current Capacity: \_\_\_\_\_  tons or  yards  
Estimated Lifetime: \_\_\_\_\_ years  
Estimated days open per year: 312 days  
Estimated yearly disposal volume: \_\_\_\_\_  tons or  yards

(If applicable)

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

**SELECTED SYSTEM**

**FACILITY DESCRIPTIONS**

Facility Type: Transfer Station

Facility Name Bay City Transfer Station

County: Bay

Location: 2900 N. Water Street, Bay City, Michigan 48708

Town: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_

Map identifying location included 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: Waters Landfill or other approved facility identified in Section III

Public  Private Owner: Waste Management of Michigan, Inc.

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: \_\_\_\_\_ acres  
Total area sited for use: \_\_\_\_\_ acres  
Total Area permitted: \_\_\_\_\_ acres  
    Operating: \_\_\_\_\_ acres  
    Not excavated: \_\_\_\_\_ acres

Current Capacity: \_\_\_\_\_  tons or  yards  
Estimated Lifetime: \_\_\_\_\_ years  
Estimated days open per year: 312 days  
Estimated yearly disposal volume: \_\_\_\_\_  tons or  yards

(If applicable)

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

**SELECTED SYSTEM**

**FACILITY DESCRIPTIONS**

Facility Type: Transfer Station

Facility Name American Waste Transfer Station

County: Grand Traverse Location: 3850 Sundowner Dr., Traverse City, Michigan 49684  
Town: 27N Range: 11W Section: 33

Map identifying location included 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: Wexford County Landfill or other approved facility identified in Section III

Public  Private Owner: American Waste, Inc

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 type="checkbox"/> contaminated soils
<input type="checkbox"/> open, but closure	<input type="checkbox"/> special wastes*
<input type="checkbox"/> pending	<input type="checkbox"/> other: <u>recyclables</u>

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

- Sludges for solidification

**Site Size:**

Total area of facility property:	<u>10,000</u>	Sq Ft
Total area sited for use:	<u>10,000</u>	Sq Ft
Total Area permitted:	_____	acres
Operating:	<u>N/A</u>	acres
Not excavated:	<u>N/A</u>	acres

<b>Current Capacity:</b>	<u>N/A</u>	<input type="checkbox"/> tons or <input type="checkbox"/> yards
Estimated Lifetime:	<u>N/A</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>50,000+</u>	<input checked="" type="checkbox"/> tons or <input type="checkbox"/> yards

(If applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station and Processing Plant

Facility Name Greenway/L&N Disposal

County: Alpena Location: 1298 US 23N, Alpena, Michigan 49707  
Town: \_\_\_\_\_ Range: \_\_\_\_\_ Section: \_\_\_\_\_

Map identifying location included 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: MOA Landfill or other approved facility identified in Section III

Public  Private Owner: L&N Disposal

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 type="checkbox"/> industrial                |
| <input type="checkbox"/> unlicensed                     | <input type="checkbox"/> construction & demolition |
| <input checked="" 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: \_\_\_\_\_ acres  
Total area sited for use: \_\_\_\_\_ acres  
Total Area permitted: \_\_\_\_\_ acres  
    Operating: \_\_\_\_\_ acres  
    Not excavated: \_\_\_\_\_ acres

Current Capacity: \_\_\_\_\_  tons or  yards  
Estimated Lifetime: \_\_\_\_\_ years  
Estimated days open per year: 312 days  
Estimated yearly disposal volume: \_\_\_\_\_  tons or  yards

(If applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Transfer Station  
Facility Name Waste Management of Michigan - East Tawas Transfer Station  
County: Iosco Location: 685 Aulerich Rd, East Tawas, Michigan 48730  
Town: 23N Range: 8E Section: 31/34

Map identifying location included 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: Waters Landfill or other approved facility identified in Section III

Public  Private Owner: Waste Management of Michigan, Inc.

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 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: \_\_\_\_\_ acres  
Total area sited for use: \_\_\_\_\_ acres  
Total Area permitted: \_\_\_\_\_ acres  
    Operating: \_\_\_\_\_ acres  
    Not excavated: \_\_\_\_\_ acres

Current Capacity: \_\_\_\_\_  tons or  yards  
Estimated Lifetime: \_\_\_\_\_ years  
Estimated days open per year: 312 days  
Estimated yearly disposal volume: \_\_\_\_\_  tons or  yards

(If applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name GFL North Michigan Landfill (Elk Run Sanitary Landfill)

County: Presque Isle Location: 20667 Five Mile Road, Onaway, Michigan 48765  
Town: 33N Range: 2E Section: 5

Map identifying location included 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: GFL Environmental, Inc.

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>120</u>	acres
Total area sited for use:	<u>99.1</u>	acres
Total Area permitted:	<u>42</u>	acres
Operating:	<u>26.8</u>	acres
Not excavated:	<u>12.4</u>	acres

<b>Current Capacity:</b>	<u>1,495,829</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards
Estimated Lifetime:	<u>12</u>	years
Estimated days open per year:	<u>312</u>	days
Estimated yearly disposal volume:	<u>140,500</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards

(If applicable)

Annual energy production:

Landfill gas recovery projects:	<u>N/A</u>	megawatts
Waste-to-energy incinerators:	<u>N/A</u>	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill  
Facility Name Harland's Sanitary Landfill (Manistee County Landfill)  
County: Manistee Location: 3890 Camp Road, Manistee, Michigan 48660  
Town: 21N Range: 16W Section: 32/29

Map identifying location included 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: Harland's Sanitary Landfill, Inc.

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 type="checkbox"/> other:

\*Explanation of special wastes, including a specific list and/or conditions: Asbestos, flyash, paper mill sludge

Site Size:

Total area of facility property:	<u>336</u>	acres
Total area sited for use:	<u>160</u>	acres
Total Area permitted:	<u>87.51</u>	acres
Operating:	<u>42.67</u>	acres
Not excavated:	<u>44.84</u>	acres

<b>Current Capacity:</b>	<u>8,422,476</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards
Estimated Lifetime:	<u>38</u>	years
Estimated days open per year:	<u>250</u>	days
Estimated yearly disposal volume:	<u>200,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards

(If applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>N/A</u>	megawatts
Waste-to-energy incinerators:	<u>N/A</u>	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name Glen's Sanitary Landfill

County: Leelanau

Location: 518 East Traverse Highway, Maple City, Michigan 49664  
Town: 28N Range: 13W Section: 35

Map identifying location included 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: Glen's Sanitary Landfill, Inc.

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: Asbestos, Type II Sludges

Site Size:

Total area of facility property:	<u>460</u>	acres
Total area sited for use:	<u>133</u>	acres
Total Area permitted:	<u>133</u>	acres
Operating:	<u>55.6</u>	acres
Not excavated:	<u>75.6</u>	acres

<b>Current Capacity:</b>	<u>17,834,464</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards
Estimated Lifetime:	<u>412</u>	years
Estimated days open per year:	<u>310</u>	days
Estimated yearly disposal volume:	<u>44,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yards

(If applicable)

Annual energy production:

Landfill gas recovery projects:	<u>N/A</u>	megawatts
Waste-to-energy incinerators:	<u>N/A</u>	megawatts

## SELECTED SYSTEM

### SITING REVIEW PROCEDURES

#### AUTHORIZED DISPOSAL AREA TYPES

##### Facilities Included in this Plan

The following facilities are deemed consistent with this Plan. Any new facility proposed in the County must meet all state law requirements, particularly Act 451.

##### Type "A" Transfer Facility

A Type A Solid Waste Transfer Facility may be developed under this Plan. The Solid Waste Transfer Facility may be owned and operated publicly, privately, or through some combination of the two.

##### Type "B" Transfer Facility

Existing Type B Transfer Facilities will be continued under this Plan. Additional Type B Transfer Facilities may be established in the future by local government units, either in cooperation with the private solid waste industry or on their own.

##### Processing Plant

A Solid Waste Processing and/or Recycling Plant may be developed under this Plan. The Solid Waste Processing and/or Recycling Plant may be owned and operated publicly, privately, or through some combination of the two.

##### Facilities Not Included in this Plan

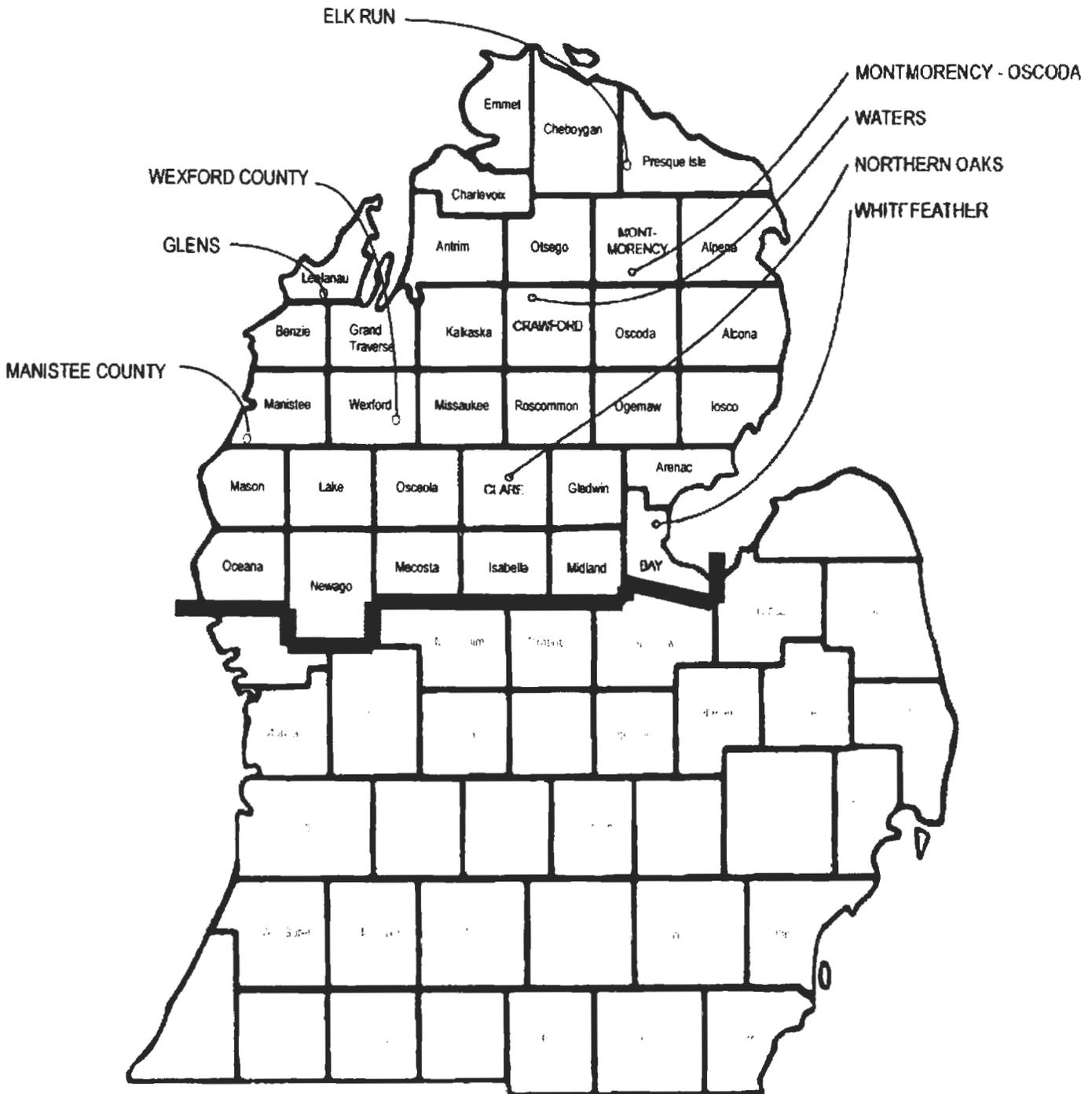
The following solid waste disposal area types may not be sited by this Plan. Any proposal to construct a facility not listed above shall be deemed inconsistent with this Plan.

### SITING CRITERIA AND PROCESS

The following process describes the criteria and procedures to be used to site solid waste disposal facilities and determine consistency with this Plan. (attach additional pages if necessary)

Roscommon County has well over 10-years of disposal capacity at various facilities identified in this Plan. Therefore, a siting process for new facilities is not required. Any new facility proposed in the County must meet all state law requirements, particularly Act 451.

Under the updated plan, the County and its municipalities intend to retain the option of developing a publicly owned disposal facility, should such a facility be in the County's best interest. In addition, a Type A Transfer Facility and/or a Processing Plant may also be developed under this Plan publicly, privately or combination of the two.



# Landfill Locations

(Commonly Referred Facility Name)

**MEETING MINUTES**

**ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE**

Roscommon County Municipal Building  
500 Lake Street Roscommon MI 48653

**MINUTES**

January 8, 2020

Meeting was called to order by Chairman Jack McCauley at 12:45pm, immediately following the county recycling committee meeting at noon.

**ROLL CALL of MEMBERS:**

Solid waste management industry—Rick Fancon, American Waste  
Jason Murphy, Waste Management  
Gary Hicks, Republic  
Billy's Contracting (absent)

Environmental interest groups—Jack McCauley & Craig Cotterman

County Government—Tim Muckenthaler

City Government—Ron Alden, Village Manager

Township government—Mary Link (absent)

Regional solid waste planning agency—(absent)

Industrial waste generators—Ron Seaman

General Public—Judy Lambie, Bill Tudor & Fred Chidester

OTHERS present: Recycling Coordinator Barb Stauffer, Road Commission Scott Eckstorm; and (per conference call) EGLE Christina Miller & Carlie Money

MINUTES of December meeting were noted.

PUBLIC COMMENTS none

**OLD BUSINESS**

Letters of Intent for this committee were completed by some members for the county clerk's office.

**NEW BUSINESS**

**Proposed amendment to the county SOLID WASTE PLAN**

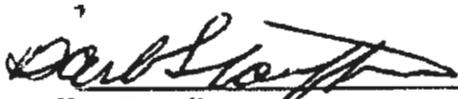
Tudor requested, and Burke explained, the difference in Type A & Type B facilities. This helped all understand the language better. Both of these need to be addressed in the amendment to the plan. Miller also clarified what our proposed amendment addresses.

After much more discussion, Chidester made a motion to approve the draft amendment of the plan and publish the notice, seconded by Tudor. It was passed by a major voice vote and will now be publicized in the newspaper of record for public comment.

Meeting ADJOURNED at 2:00pm.

**NEXT MEETING: Wed.; February 12, 2020**

*NOT AVAILABLE*  
Jack McCauley, Chairman *BKS*

  
Barb Stauffer, Coordinator

**ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE**

**Roscommon County Municipal Building  
500 Lake Street Roscommon MI 48653**

**MINUTES**

**February 12, 2020**

**Meeting was called to order by Chairman Jack McCauley at 12:45pm (immediately following the county recycling committee meeting at noon).**

**ROLL CALL of MEMBERS:**

**Solid waste management industry—Rick Fancon, American Waste  
Jason Murphy, Waste Management (absent)  
Gary Hicks, Republic (absent)  
Billy's Contracting (absent)**

**Environmental interest groups—Jack McCauley & Craig Cotterman (excused)**

**County Government—Tim Muckenthaler**

**City Government—Ron Alden, Village Manager**

**Township government—Mary Link**

**Regional solid waste planning agency—(absent)**

**Industrial waste generators—Ron Seaman**

**General Public—Judy Lambie (absent), Bill Tudor & Fred Chidester (absent)**

**OTHERS present: Recycling Coordinator Barb Stauffer, Road Commission Scott Eckstorm; and Vicki Garon, American Waste**

**MINUTES of January meeting were corrected to include EGLE Brian Burke as present.**

**OLD BUSINESS**

**The public notice was edited and will be republished with the correct comment period ending date of April 24, 2020. An updated schedule was provided to all.**

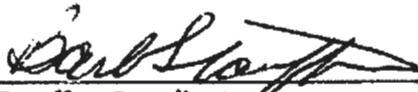
**PUBLIC COMMENTS**

It is important for a quorum at the March meeting; in the event that you are unable to attend, please respond so a call-in phone number can be provided.

Meeting ADJOURNED at 1:30pm.

**NEXT MEETING: Wed.; March 11, 2020**

NOT Available  
Jack McCauley, Chairman *BKS*

  
Barb Stauffer, Coordinator

**ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE**

Roscommon County Municipal Building  
500 Lake Street Roscommon MI 48653

**MINUTES**

**May 13, 2020**

Meeting was called to order by Recycling Coordinator Barb Stauffer at 1:05 pm via phone conference.

**ROLL CALL of MEMBERS:**

Solid waste management industry—Rick Fancon, American Waste  
Jason Murphy, Waste Management  
Gary Hicks, Republic (absent)  
Billy's Contracting (absent)

Environmental interest groups—Jack McCauley & Craig Cotterman

County Government—Tim Muckenthaler

City Government—Ron Alden, Village Manager (absent)

Township government—Mary Link

Regional solid waste planning agency—(absent)

Industrial waste generators—Ron Seaman

General Public—Judy Lambie, Bill Tudor & Fred Chidester (excused)

**GUESTS present:** Recycling Coordinator and Designated Contact Barb Stauffer, and Vicki Garon, American Waste

**MINUTES** of last meetings were noted.

**PUBLIC COMMENTS** none

**OLD BUSINESS**

N/A

**NEW BUSINESS**

Proposed amendment to the county SOLID WASTE MANAGEMENT PLAN—Stauffer turned the meeting over to Vicki Garon to facilitate.

Garon confirmed with Stauffer that the only public comments received was the letter from EGLE. Stauffer confirmed that there were no other submissions. Garon summarized the EGLE letter which was read into the Public Hearing which was held on March 11, 2020. Garon also summarized Committee changes from the last

meeting which had been incorporated into the packet that the Committee received and will be voting on. Changes included facility name updates and clarification added as suggested by EGLE, and the addition of counties north of Highway 20 along with several existing solid waste facilities within those counties. A new map was developed designating the counties and landfills added. The solid waste facilities lists within the County Plan was updated along with the description sheet.

Tudor asked for clarification on the names of Elk Run in Alpena and White Feather in Standish.

Seaman made a motion to accept the updated amended proposal; Muckenthaler second the motion. After a vote was taken (0 abstained, 1 No and 8 Yays) the attached document was approved. This Committee will submit it to the Roscommon County Board of Commissioners for approval, denial or to return with comments. It was noted that the next BOC meeting is Wed., May 27<sup>th</sup> to be held via ZOOM. Several Committee members requested info to join the meeting.

Meeting ADJOURNED at 1:20 pm by a motion from Link, seconded by Fancon.

**NEXT MEETING: Wed.; June 10, 2020**

.03

*Not available for signature*

Jack McCauley, Chairman

*BKS*



Barb Stauffer, Coordinator

## **Vicki Garon**

---

**From:** Jodi Valentino <ValentinoJ@roscommoncounty.net>  
**Sent:** Friday, June 25, 2021 3:24 PM  
**To:** Vicki Garon  
**Subject:** FW: Scanned from a Xerox Multifunction Printer  
**Attachments:** Scanned from a Xerox Multifunction Printer.pdf

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

-----Original Message-----

**From:** Michelle Stevenson <StevensonM@roscommoncounty.net>  
**Sent:** Friday, June 25, 2021 2:29 PM  
**To:** Jodi Valentino <ValentinoJ@roscommoncounty.net>  
**Subject:** FW: Scanned from a Xerox Multifunction Printer

Here is my signature. It would be great if Bob signed them each month. I should work on that or remove his name from the minutes. Is his signature required? I don't know.

**June 10, 2020**

The Roscommon County Board of Commissioner's met on Wednesday, June 10, 2020 for a Regular Meeting. The meeting was held online via Zoom. Chairman Robert E. Schneider called the meeting to order at 10:00 a.m.

The Pledge of Allegiance of the United States of America was recited.

**Present:** Schneider, Russo, Milburn, Muckenthaler, Melvin

**Absent:** None

**Motion by Milburn, Second by Russo, to approve the Board Agenda. On Roll Call: Ayes:** Russo, Schneider, Milburn, Muckenthaler, Melvin. **Nays:** None. Motion Carried.

**Motion by Melvin, Second by Muckenthaler, to approve Board of Commissioner's Regular Meeting Minutes for May 13, 2020, May 27, 2020 and Special meeting May 28, 2020. On Roll Call: Ayes:** Russo, Milburn, Schneider, Muckenthaler, Melvin. **Nays:** None. Motion Carried.

**Public Comment:** Clerk Stevenson reminded the Board that meetings need to be posted properly. Committee Chairs should be contacting the Clerk's office in regards to meeting postings.

**Motion by Russo, Second by Muckenthaler, to approve Class A bills in the amount \$605,711.12. On Roll Call: Ayes:** Russo, Milburn, Muckenthaler, Schneider, Melvin. **Nays:** None. Motion Carried.

**Motion by Russo, Second by Muckenthaler, to approve Claims & Accounts in the amount of \$35,929.29. On Roll Call: Ayes:** Russo, Milburn, Muckenthaler, Schneider, Melvin. **Nays:** None. Motion Carried.

**Administrator/Controller's Report:** The 2019 Audit is continuing. Valentino is looking to apply for two USDA grants for Sheriff and Animal Control. The application for the Work Share program was submitted and approved. Steve Nielsen has officially retired. Charlie Aldrich was interviewed, offered and accepted the position of Director of Maintenance and is on a 90 day probation period. Valentino updated the Board on the lawsuits involving Roscommon County.

**Correspondence:**

- A. Livingston County Resolution
- B. Kirtland Community College Taxable Value Revenue Worksheet
- C. Roscommon County 4-H Council
- D. Village of Roscommon Annual DDA Public Hearing
- E. Pamela Kincaid – EDC Letter of Interest

**Monthly Department Reports:** Sheriff, Commission on Aging

**Visitors:** Julie Crick, MSUE, discussed the Gypsy Moth Spray that occurred May 30-31, 2020. She is receiving calls regarding Gypsy Moth caterpillars and has reminded people that it is a suppressive program. A de-foliage survey will take place at the end of June.

**Unfinished Business/New Business:**

- a. **Airport Runway Clearance Concern:** Airport Manager Eric Jaroch discussed runway clearance being encroached by trees on private property. Two vendors have been contacted to identify the 20 trees in question as provided by Prine & Newhoff. The goal is to determine the value of the trees and come to an agreement with the property owner on the removal of them. The 927 project is set to begin after Labor Day. Commissioner Melvin spoke of the importance of having clear runways. Jaroch explained the need for having an alternate landing area for aircraft. The next meeting is July 2, 2020 at 10:00 a.m.
- b. **L-4029: Equalization** Director Jamie Houserman reviewed the L-4029 for summer tax levy at a rate of 3.5804 mills. This is a reduction due to headlee rollback.
- c. **2020 Treasurer's Quarterly Update:** Treasurer Rebecca Ragan stated that interest has been reduced. Taxes collection continued during the closure. The foreclosure date is now June 29<sup>th</sup> based on the Executive Order pertaining to foreclosures.

**Motions and Resolutions:**

- 1. **Motion by Muckenthaler, Second by Milburn, to adopt the Solid Waste Plan Amendment, effective June 10, 2020, as recommended and approved by the Solid Waste Planning Committee**

On Roll Call: Ayes: Schneider, Muckenthaler, Russo, Milburn, Melvin. Nays: None. Motion Carried.

2. Motion by Milburn, Second by Russo, to levy the following ad valorem tax rate for the County of Roscommon for the year 2020 on the summer tax roll: General Fund 3.5804 Mills.

On Roll Call: Ayes: Schneider, Muckenthaler, Russo, Milburn, Melvin. Nays: None. Motion Carried.

3. Motion by Melvin, Second by Muckenthaler, to authorize Robert E. Schneider, Chairman and Michelle M. Stevenson, County Clerk, to sign the Summer L-4029 with the following tax rates for the County of Roscommon for the year 2020: General Fund 3.5804 Mills.

On Roll Call: Ayes: Schneider, Muckenthaler, Russo, Milburn, Melvin. Nays: None. Motion Carried.

4. Motion by Russo, Second by Schneider, to reappoint Al Cambridge to the Roscommon County Economic Development Corporation Board for the term of 4/1/2020 – 3:31/2023.

On Roll Call: Ayes: Schneider, Muckenthaler, Russo, Milburn, Melvin. Nays: None. Motion Carried.

5. Motion by Melvin, Second by Schneider, to reappoint Pamela Kincaid to the Roscommon County Economic Development Corporation Board for the term of 5/1/2020 – 4:30/2023.

On Roll Call: Ayes: Schneider, Muckenthaler, Russo, Milburn, Melvin. Nays: None. Motion Carried.

**Committee Reports:**

Russo: No Report

Milburn: District Health

Muckenthaler: No Report

Melvin: Mi!Works, Veterans – Our number of Veterans has been reduced by 80, but the total money has increased to \$4,287,000. The 22 mile walk has been postponed to spring of 2021.

Schneider: District Health, regular and weekly update meetings

**Public Comment:** Sheriff Stern thanked the Commissioners and community for their support. Chairman Schneider spoke regarding the opening of the county building. Elaine Palm, MSUE shared that services are still being provided even though the office door is closed. Clerk/ROD Stevenson shared that the ballots have been ordered and she will be working on an article for the paper regarding filing deadlines for November 2020. The June 24<sup>th</sup> meeting may be a regular meeting but Chairman Schneider wants to be sure.

Motion by Milburn, Second by Muckenthaler, to adjourn meeting. All Ayes. Motion Carried.

Meeting adjourned at 10:57 a.m.

\_\_\_\_\_  
Robert E. Schneider, Chairman

  
Michelle M. Stevenson, County Clerk/Reg. Of Deeds

**ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLANNING COMMITTEE**

Roscommon County Municipal Building  
500 Lake Street Roscommon MI 48653

**MINUTES**

**June 10, 2020**

The meeting was called to order by Chairman McCauley at 1:00pm.

**ROLL CALL of MEMBERS:**

Solid waste management industry—Rick Fancon, American Waste (absent)  
Jason Murphy, Waste Management (absent)  
Tim Johnston in place for Gary Hicks, Republic (absent)  
D J Bourdow, Billy's Contracting (absent)

Environmental interest groups—Jack McCauley & Craig Cotterman (excused)

County Government—Tim Muckenthaler

City Government—Ron Alden, Village Manager

Township government—Mary Link

Regional solid waste planning agency—(absent)

Industrial waste generators—Ron Seaman

General Public—Judy Lambie, Bill Tudor (absent) & Fred Chidester

**OTHERS present:** Recycling Coordinator Barb Stauffer & Scott Eckstorm, RCRC

**MINUTES of May ZOOM meeting were approved by a motion made by Chidester, seconded by Muckenthaler.**

**OLD BUSINESS**

Muckenthaler reported that the proposed amendment to the plan was approved by the county commissioners at their meeting earlier this morning. This approved proposal will be sent to the townships for their approval; of which 67% is needed for final approval by the county.

**PUBLIC COMMENTS**

n/a

Meeting adjourned at 1:15pm with a motion by Link, seconded by Alden.

**NEXT MEETING: Wed.; July 8, 2020**

**PUBLIC NOTICE**

# Driver hospitalized after sliding into utility pole

A Roscommon man was taken to the hospital Jan. 18 after hitting a utility pole.

According to a Roscommon County Sheriff's Office report, David L. Owen, 28, was southbound on Steele Road at 5:30 a.m. when he approached the intersection at West Street Dr. (Co. Road 108). His passenger vehicle slid past the stop sign while he was attempting to make a right-hand turn on the newly road.

He continued to slide across Street 1200 and off the roadway to the south, colliding with a utility pole, causing damage to the front of the car when the pole landed on the roof. Downed lines covered both lanes of Street Dr., and Roscommon Emergency was notified.

The driver complained of head trauma and was transported by a friend to Munson Healthcare Grayling Hospital with possible injuries, the report said.

# MSP recovers crystal meth, two charged with intent to deliver

After stopping a vehicle Jan. 15 for defective tail lights, Michigan State Police troopers arrested two men for possession of crystal meth with intent to deliver.

A 45-year-old Naud Lake driver and his 27-year-old male Grand Rapids passenger were initially stopped on northbound I-96-127. When troopers made contact with the men, neither of them had a driver's license. The men told troopers they were on their way to Glad-

wen, however, they had already passed the Harrison exit.

Troopers then searched the vehicle and found two baggies with substance that appeared to be suspected crystal meth.

Based on the way the suspected crystal meth was packaged and the amount that had been found, the men were arrested for possession with intent to deliver. The men were then lodged in the Roscommon County Jail.

# 34th Circuit Court Judge Robert W. Bennett

Judge Robert W. Bennett presided over 34th Circuit Court, Roscommon, Oct. 31.

No. 19-72-4500, Jeffrey Stearns vs Lynn Hadaway, default judgment of partition was submitted and signed. No. 18-72-4190, Jody Koronala vs Aham Dubeale, Robert Ren and Jacquelyn Ren, plaintiff's motion to withdraw counsel was granted and defendant's motion to compel was granted. In defendant's motion to dismiss was subsequently granted.

The following were adjourned (postponed) to a different date, due to a power outage.

No. 19-72-4651, James J. Ciorelli vs the Estate of James E. Thurlow, miscellaneous hearing adjourned (postponed) to Dec. 2, 2019.

No. 19-72-4335, Linda L. Lovelace vs Robert L. 15th, plaintiff's motion for summary disposition was adjourned

(postponed) to Nov. 18, 2019.

No. 19-72-4452, Gary A. Furbaska vs Louisa F. Furbaska, status conference adjourned (postponed) to Nov. 18, 2019.

No. 19-72-4587, Edgar M. Palom (estate of Mary Ann Palom) vs Frederick P. Anderson and Vicki Anderson, pre-trial hearing. No. 18-72-4017, Marjorie Grandstands vs Rita Prewer, Alma Wolanowicz and Robert Wolanowicz, plaintiff's motion for entry of default judgment. No. 17-72-3691, Jan Karpurak vs Carl Hanja, Christopher Hanja (deceased) and the Estate of Christopher Hanja status conference. No. 17-72-3550, Westfall Heights Property Owners vs Craig Brown, Glenda Brown, et al, status conference, and No. 18-72-4136, Ralph Czizgorz and Marlene K. Czizgorz vs Westfall Heights Property Owners, et al, status conference.



**ALL SMILES**  
Eight-month-old Waylon Adamson was all smiles last month while "enjoying his first time on his own sled." Waylon is the son of Kerrie and Stephanie Adamson of St. Helen. (Courtesy photo)

**Lake House Meat & Deli**  
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**CERTIFICATE OF RETIREMENT**  
Houghton Lake Post Commander L. Travis House and now retired Sgt. William Tyrrell stand with Tyrrell's Certificate of Retirement. Tyrrell served the MSP for 25 years. (Courtesy photo)

# Sgt. Tyrrell retires after 25 years with MSP

After 25 years of service with the Michigan State Police, Sgt. William Tyrrell of MSP Houghton Lake Post 72 has retired.

Tyrrell's retirement was effective Jan. 8, however, he joined the MSP Jan. 15, 1995. He was a graduate of the 111th Trooper Recruit School, and his first assignment was at the Hay City Post.

He was then selected as a case handler in 1999 and was the first online handler assigned to the Detroit Post. Tyrrell later transferred to the Houghton Lake Post to serve as its case handler.

Tyrrell was also selected to the Fireman Unit at the MSP Grayling Crime Lab, where he was promoted to sergeant in 2013. Tyrrell returned to the Houghton Lake Post as a uniform sergeant.

In his off-duty time, Tyrrell has coached wrestling, ball, youth football and is currently the Houghton Lake High School wrestling coach.

Tyrrell's wife of 23 years, Allison Tyrrell, was also working at the Houghton Lake Post as the administrative assistant. She, too, decided to leave the MSP and start a new chapter in their lives together.

Sgt. Tyrrell's "commitment to serve others, both at work and in his personal life, has been instrumental in the success of those he's worked with. An MSP press release stated: We wish the Tyrrells all the best as they take the next step in their lives together."



**RECOGNITION OF SERVICE**  
Michigan State Police Sgt. William Tyrrell and Allan Tyrrell were both recognized for their service to the MSP with plaques. Sgt. Tyrrell had served the MSP for 25 years and most recently worked at MSP Houghton Lake Post 72. He retired Jan. 15, 1995 and retired Jan. 8, Allison will also be leaving the Houghton Lake Post, where she worked as the administrative assistant. (Courtesy photo)

# 82nd District Court Judge Richard E. Noble

Judge Richard J. Noble recently arraigned the following in 82nd District Court.

Heena A. Hane, 28, Houghton Lake, demanded preliminary examination within 21 days on charges of assault by strangulation and assault with intent to do great bodily harm less than murder. The Roscommon County Sheriff's Office made the arrest. The date of offense was Oct. 31, 2019. Bond was set at \$500,000.

William H. Hane, 35, Gladwin, demanded preliminary examination within 21 days on two counts of police officer assault resisting and obstructing. Michigan State Police, Houghton Lake, made the arrest. The date of offense was Jan. 1, 2019. Bond was set at \$5,000.

Brandon M. Dean, 32, Grand Rapids, demanded preliminary examination within 21 days on a charge of using methamphetamine second or subsequent offense. The sheriff's office made the arrest. The date of offense was Dec. 27-28, 2019. Bond was set at \$75,000.

Aaron W. Fec, 22, Meritt, demanded preliminary examination within 21 days on a charge of filing a false report of a felony. The sheriff's office made the arrest. The date of offense was Nov. 23, 2019. Bond was set at \$5,000.

Ryan R. Lewis, 35, Houghton Lake, demanded preliminary examination within 21 days on a charge of possession of methamphetamine. The sheriff's office made the arrest. The date of offense was Dec. 27-28, 2019. Bond was set at \$75,000.

Ivan C. McCann III, M. Meritt, demanded preliminary examination within 21 days on a charge of aggravated assault. The sheriff's office made the arrest. The date of offense was Nov. 17-25, 2019. Bond was set at \$75,000.

Narah J.A. Ripke, 23, Houghton Lake, demanded preliminary examination within 21 days on a charge of lying to a police officer. The sheriff's office made the arrest. The date of offense was Nov. 25, 2019. Bond was set at \$25,500.

Joshua F. Thibert, 32, Houghton Lake, demanded preliminary examination within 21 days on a charge of larceny in a building. Michigan State Police, Houghton Lake, made the arrest. The date of offense was Dec. 2, 2019. Bond was set at \$5,000.

John W. Wilson, 54, Prudenville, demanded preliminary examination within 21 days on a charge of using methamphetamine second or subsequent offense. The sheriff's office made the arrest. The date of offense was Dec. 27-28, 2019. Bond was set at \$75,000.

Zachary D. Homay, 27, Walker, demanded preliminary examination within 21 days on a charge of possession of methamphetamine. Michigan State Police, Houghton Lake, made the arrest. The date of offense was Jan. 15, 2019. Bond was set at \$75,000.

Melissa A. Hart, 43, St. Helen, demanded preliminary examination within 21 days on a charge of embezzlement by an agent or trustee between \$1,000 and \$20,000. The Roscommon County Department of Public Safety made the arrest. The date of offense was July 29, 2019. Bond was set at \$2,500.

Joseph M. Pethers, 45, Greenville, demanded preliminary examination within 21 days on a charge of possession of methamphetamine. Michigan State Police, Houghton Lake, made the arrest. The date of offense was Jan. 15, 2019. Bond was set at \$75,000.

Hansen J. Reiford, 37, Houghton Lake, arrested driving 31 days in jail

(credit for two days), with 29 days held in abeyance, \$1,400 in fines, costs or restitution, six months probation and the conviction was reported to the Secretary of State.

Ethan F. Hartman, 28, St. Helen, driving while intoxicated 45 days in jail (credit for one day), with six days to be served immediately and 38 days held in abeyance, \$1,710 in fines, costs or restitution, 12 months probation and the conviction was reported to the Secretary of State. The exact head no objection to weekends or work release.

Michael K. Slouder, 58, Clinton Township, driving while intoxicated 47 days in jail (credit for two days), with 45 days to be served immediately, \$2,225 in fines, costs or restitution and five convictions was reported to the Secretary of State. He is to pay \$810 in fines and costs before release or he is to serve an additional 40 days in jail.

Ashley K. Christensen, 31, Rock Hill SC, arrested and battery 31 days in jail (credit for three days), with seven days to be served immediately and \$625 in fines, costs or restitution.

Evan M. Deane, 30, Flint, driving while intoxicated 98 days in jail (credit for 29 days), \$1,878 in fines, costs or restitution and 12 months probation.

Andrew T. Campbell, 40, Houghton Lake, attempted transporting a loaded firearm 93 days in jail (credit for one day), with 92 days held in abeyance, \$255 in fines, costs or restitution and six months probation. He is to pay \$500 in fines and costs or serve 25 days in jail.

Theresa J. Valerius, 56, Prudenville, trespass 3427.30 in fines, costs or restitution. She is to pay \$25 per month until fines and costs are paid in full.

Brandon M. Dierling, 26, Harel Park, possession of marijuana and use of a controlled substance 60 days in jail (to be served immediately), \$1,250 in fines, costs or restitution and five license suspensions. He must pay \$1,350 in fines and costs or serve an additional 60 days in jail.

Carter D. Liddy, 12, Houghton Lake, impaired driving 31 days in jail (credit for one day), with 30 days held in abeyance, \$1,610 in fines, costs or restitution, 12 months probation and the conviction was reported to the Secretary of State.

Mark T. Kolla Jr., 29, Gladwin, malicious destruction of a building less than \$200 93 days in jail (credit for one day), with 92 days held in abeyance and \$445 in fines, costs or restitution. He was also sentenced on a charge of assault and battery to 93 days in jail (credit for 11 days), with 62 days held in abeyance, \$1,710 in fines, costs or restitution and 12 months probation.

Lynnette L. Ashely-Leah, 65, Houghton Lake, third degree retail fraud 30 days in jail (held in abeyance), \$925 in fines, costs or restitution and 12 months probation.

Robert T. Hock, 31, St. Helen, driving with a suspended or revoked license first offense 30 days in jail (credit for one day), with 29 days held in abeyance, \$875 in fines, costs or restitution, six months probation and the conviction was reported to the Secretary of State.

David F. Clark, 58, Prudenville, driving with a suspended or revoked license second offense 30 days in jail (credit for two days), with 28 days to be served immediately, \$525 in fines, costs or restitution and the conviction was reported to the Secretary of State.

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**Notice of Public Comment Period on the Proposed Amended Roscommon County Solid Waste Plan**

Pursuant to Part 115 Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1964 PA 451, as amended (NREPA), notice is hereby given that the Roscommon County Solid Waste Planning Committee has released an amended solid waste plan and is currently accepting public comment. A copy of the proposed amendments can be viewed in the Office of the County Clerk/Registrar of Deeds located at 300 Lake Street, Roscommon, Michigan during normal business hours or at either the Roscommon Area Public Library at Houghton Lake Public Library. The amended plan will also be available online at www.roscommoncounty.net.

A public hearing will be held at 1:00 pm on March 11, 2020 at the Roscommon County Municipal Building located at 300 Lake Street, Roscommon, Michigan. If you cannot attend please address your comments to Barb Stauffer, Roscommon County Solid Waste Planning Committee Co-Chair, at 300 Lake Street, Roscommon, Michigan 48653. Public comments received by Friday, March 6, 2020 will be read during the public hearing. Written public comments will be accepted for a period of 90-days following notice of this amendment. The 90-day period expires March 25, 2020.

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HOUGHTON LAKE RESORTER, INC. • ROSCOMMON COUNTY HERALD-NEWS (USPS-252-240)  
Thursday, January 23, 2020 No. 1 • Published Every Thursday

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E-mail us: news@houghtonlakeresorter.com  
Write to: P.O. Box 240, Houghton Lake, MI 48629

For us: 989.306.6472  
Visit us: 4048 W. Houghton Lake Dr., Houghton Lake  
Monday-Thursday 9 a.m.-6 p.m., Friday 9 a.m.-3:30 p.m.

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AFFP

Solid Wasted Proposed Amend

## Affidavit of Publication

STATE OF MICHIGAN }  
COUNTY OF ROSCOMMON } SS  
}

Patricia Tribelhorn, being duly sworn, says:

That she is Advertising Manager of the The Houghton Lake Resorter, a weekly newspaper of general circulation, printed and published in Houghton Lake, Roscommon County, Michigan; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

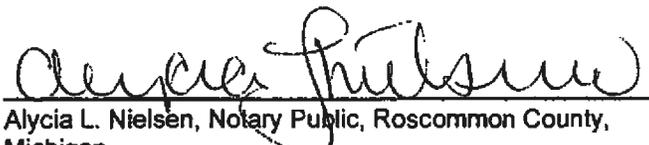
January 23, 2020

That said newspaper was regularly issued and circulated on those dates.

SIGNED:

  
\_\_\_\_\_  
Advertising Manager

Subscribed to and sworn to me this 25<sup>th</sup> day of June 2021.

  
\_\_\_\_\_  
Alycia L. Nielsen, Notary Public, Roscommon County,  
Michigan

My commission expires: March 17, 2026

a0100077 00079906

Roscommon County  
500 Lake Street  
Roscommon, MI 48653

**Notices**

foreclosed by a sale of premises, or some

BE NOTIFIED THAT TOWNSHIP BOARD AT 14, 2020.

Commission's recom- mending Ordinance. 1913. If you are un-

ary aids and ser- viced printed materials for the meeting/hear- ing with disabilities re- sulting from writing 48651, (989) 366-

**SUMMARY**

ANCE  
Development  
or easement,  
of a corner  
front yard  
except that  
ed on one (1)  
undred (100)  
such existing  
50) feet from  
an existing  
founding found-  
ness (Patios,  
tion and the  
any restric-  
tional Outdoor  
mark.  
15 Fences  
shall com-  
thirty (30)

**Legal Notices**

part of them, at a public auction sale to the highest bidder for cash or cashier's check at the place of holding the circuit court in Roscommon County, starting promptly at 11:00 AM on MARCH 20,

**Legal Notices**

2020. The amount due on the mortgage may be greater on the day of the sale. Placing the highest bid at the sale does not automatically entitle the purchaser to free and clear ownership of the property.

**Amended Notice of Public Comment Period on the Proposed Amended Roscommon County Solid Waste Management Plan**

Pursuant to Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), notice was provided on January 25, 2020 that the Roscommon County Solid Waste Planning Committee released an amended solid waste plan and is accepting public comment. The January 25th notice inadvertently stated that the 90-day comment period expires on March 25, 2020. The actual 90-day public comment period expires on April 24, 2020. The following correction is posted:

A public hearing will be held at 1:00 pm on March 11, 2020 at the Roscommon County Municipal Building located at 500 Lake Street, Roscommon, Michigan. Public comments received by Friday, March 6, 2020 will be read during the public hearing. Written public comments will be accepted for a period of 90-days following initial notice of this plan amendment which occurred on Friday, January 24, 2020. The 90-day comment period expires on April 24, 2020.

**GERRISH TOWNSHIP BOARD REGULAR MEETING SYNOPSIS February 11, 2020**

Regular meeting called to order at 7:00 pm at the Municipal Center. Present: Supervisor Udy, Clerk Patchin, Treasurer Tulgetzke, Trustee Lippert and Trustee Link. Also present: 6 citizens.

- Motions made a carried:
- Agenda approved as presented with the addition of #9 under New Business: Authorization of security camera purchase.
  - Consent Agenda approved as presented.
  - Board authorized the Gerrish Township Fire/EMS Department to solicit sealed bids for an ambulance. Sealed bids to be sent to Clerk Patchin and must be received by 4:00pm, April 1, 2020. Sealed bids will be opened April 2, 2020 at the Gerrish Township work session meeting.
  - Board authorized the acceptance of the bid for the roof and critical repairs for the Municipal Building and award the contract to National Restoration Inc for \$427,100.00 subject to Rural Development approval. Gerrish Township will contribute \$53,100 above the approved loan of \$374,000 to complete the project.
  - Board authorized Treasurer Tulgetzke to remove \$15,000 from the Gerrish Township Cemetery CD from Mercantile Bank for repairs at the cemetery. Repairs to include tree removal, well maintenance and door replacement. Remaining funds from CD to be reinvested in a CD at Mercantile Bank.
  - Board authorized Supervisor Udy to sign the Roscommon County Equalization Department 2020-21 service for Option A at \$1.15 per parcel plus postage on Assessment Change Notices.
  - Board authorized a \$25.00 administration fee on Electrical, Plumbing and Mechanical permits effective April 1, 2020.
  - Board approved the adoption of Zoning Ordinance Amendment XXXX-5 as recommended by the Planning Commission. Proposed Zoning Ordinance (ZO) Amendments of the following Articles:
    - (1) Article 3, Footnote 3.a under Footnotes for Table 3-4 -Site Development Requirements (Front Yard Set-backs), And
    - (2) Article 20, Section 20.15.A.1 and 20.15.A.2 (Fences & Walls).
  - Board authorized Police Chief Hill to replace the engine, if necessary, in the 2016 Ford Explorer patrol car at Signature Ford for up to \$8,000.
  - Board authorized Supervisor Udy to sign the Risk Reduction Grant Agreement awarding \$1,486.00 to Gerrish Township. Grant funds to be used towards installation of security cameras in the Gerrish Township Municipal Building.
  - Board authorized the purchase of 4 Hikvision security cameras for \$2,972.00. Cameras to be

STATE OF MICHIGAN  
 IN THE CIRCUIT COURT FOR THE  
 COUNTY OF ROSCOMMON  
 ORDER FOR ALTERNATE SERV  
 File No. 20-724859-CH  
 In the matter of the Th-Star Bank  
 Successor Trustee of the Robt  
 Hiltman Revocable Trust w/d A  
 Plaintiff  
 1989  
 Defendants  
 Gilbert Burrell and Dorothea aka E  
 Dorothea E. Burrell and Clara E  
 Chaignain & Tripp Law Offices P  
 John E. Bos (P11027)  
 Chrysa M. Mitholland (P47721  
 1019 Trowbridge Rd.  
 East Lansing, MI 48823  
 (517)332-3800  
 (989)423-1200  
 At a session of said Cou  
 Roscommon County on the  
 February, 2020  
 PRESENT: Honorable  
 Bennett (P4422  
 Upon filing a Motion for  
 vice and the Court being  
 IT IS ORDERED that it  
 tice be published 3  
 Houghton Lake Resor  
 non County pursuant  
 ments of MCR 5.304  
 Robert W. Bennett (C  
 Circuit Court Judge  
 PIO: UNKNOWN  
 GESSOR AND AL  
 BERT BURRELL  
 DOROTHEA E.  
 CLARA E. BURRE  
 Star Bank, as Sur  
 Robert L. Hammer  
 April 4, 1989, a  
 Burrell, Dorothea  
 and Clara  
 ants, filed in th  
 Circuit Court.  
 of  
 hearing will  
 at 1:30 p.m. 2  
 Building loca  
 Roscommon  
 Judge Robert  
 for purpose:  
 Chaignain &  
 John E. Bos  
 Chrysa M.  
 Attorneys  
 Trustee  
 1019 Trow  
 East Lan  
 (517)332-  
 (989)423-1

Solid Waste Amended Hearing No

# Affidavit of Publication

STATE OF MICHIGAN )  
COUNTY OF ROSCOMMON ) SS  
}

Amended Notice of Public Comment Period on the Proposed Amended Roscommon County Solid Waste Management Plan

Pursuant to Part 115, Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA 451 as amended (NREPA), notice was provided on January 25, 2020 that the Roscommon County Solid Waste Planning Committee released an amended solid waste plan and is accepting public comment. The January 25th notice inadvertently stated that the 90 day comment period expires on March 25, 2020. The actual 90-day public comment period expires on April 24, 2020. The following correction is posted:

Alycia Nielsen, being duly sworn, says:

A public hearing will be held at 1:00 pm on March 11, 2020 at the Roscommon County Municipal Building located at 500 Lake Street, Roscommon, Michigan. Public comments received by Friday, March 6, 2020 will be read during the public hearing. Written public comments will be accepted for a period of 90-days following initial notice of this plan amendment which occurred on Friday, January 24, 2020. The 90-day comment period expires on April 24, 2020.

That she is Classified Manager of the The Houghton Lake Reporter, a weekly newspaper of general circulation, printed and published in Houghton Lake, Roscommon County, Michigan, that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

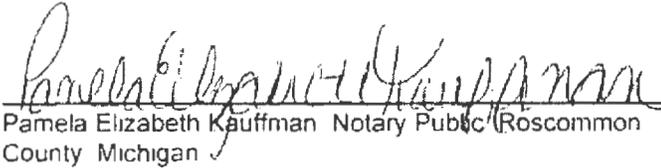
February 20, 2020

That said newspaper was regularly issued and circulated on those dates.

SIGNED

  
Classified Manager

Subscribed to and sworn to me this 20th day of February 2020

  
Pamela Elizabeth Kauffman, Notary Public, Roscommon County, Michigan

My commission expires December 24, 2024

a0100077 00080136

Roscommon County  
500 Lake Street  
Roscommon, MI 48653

MUNICIPAL RESOLUTIONS

**ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLAN**  
**Municipality Vote Summary**

Municipality	Phone	Clerk	Address	Meeting Date	Vote
AuSable Township	989.389.3541 989.390.5198 clerk	Ronald Watson	9181 N. Keno Road St. Helen, MI 48656	3.13.2021	Yes
Backus Township	989.389.7578	Louise Nagy 2360 S. Maple Valley Road St. Helen, MI 48656	Township Hall 3888 S. Maple Valley Road St. Helen, MI 48656	7.7.2020	Yes
Denton Township	989.366.5913 ext. 209	Carol A. Asher	2565 S. Gladwin Road P.O. Box 289 Prudenville, MI 48651	7.2.2020	Yes
Gerrish Township	989.821.9313	Kathleen Patchin	2997 E. Higgins Lake Drive Roscommon, MI 48653	8.11.2020	Yes
Higgins Township 9am - 1 pm M-R	989.275.8112 Ext 2	Maggie Borgula LeAnna Goodrich	700 S. Fifth Street P.O. Box 576 Roscommon, MI 48653	8.10.2020	Yes
Lake Township	989.202.4684	Tonya Clare 11254 E. Houghton Lake Dr Houghton Lake, MI 48629	1380 N. Michelson Road P.O. Box 536 Houghton Lake, MI 48629	7.14.2020	yes
Lyon Township	989.821.9694	Doug Schnell	7851 W. Higgins Lake Drive P.O. Box 48 Higgins Lake, MI 48627	1.20.2021	Yes
Markey Township	989.366.9614	Sheryl Tussey	4974 E. Houghton Lake Drive Houghton Lake, MI 48629	11.9.2020	Yes
Nester Township	989.389.1199 426.5459	Carolyn Corlew 12790 Nolan Road Gladwin, MI 48624	7855 Maple Valley Road St. Helen, MI 48656	11.5.2020	Yes
Richfield Township	989.389.4994	Pamela Scott	1410 N. M-76 P.O. Box 128 St. Helen, MI 48656	10.20.2020	Yes
Roscommon Township	989.422.4116	Carie Milburn	8555 Knapp Road P.O. Box 610 Houghton Lake, MI 48629	8.11.2020	No
Village of Roscommon	989.275.5743 (ext 2)	Frances Dawson	702 Lake Street P.O. Box 236 Roscommon, MI 48653	10.12.2020	yes

RESOLUTION NO 2021-3-13

FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN

At a regular/special meeting of the ANSABLE, Roscommon County of  
Roscommon, State of Michigan held at ANSABLE Michigan on  
the 13 day of MARCH, 20201

PRESENT. Kurtis NURTON SARAH WATSON  
RON WATSON ANN Church KATHLEEN WIAF

ABSENT. N/A

Vicki GARIN offered the following resolution and move for its adoption. The motion was  
supported by ANSABLE Twp Board.

WHEREAS, Roscommon County, as well as all counties in the State of Michigan, are required by Part 115  
of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste  
Management Plan (SWMP); and

WHEREAS, the Roscommon County Board of Commissioners, authorized an amendment to the current  
2000 SWMP; and

WHEREAS, the Roscommon County Board of Commissioners appointed the Solid Waste Management  
Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the  
amendment; and

WHEREAS, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to  
Section 11534 of Act 451, and

WHEREAS, the DPA sent copies of the proposed SWMP amendment to all municipalities held a public  
hearing on the proposed amendment; and has revised the proposed amendment in response to comments  
made at the hearing as appropriate, and

WHEREAS, the SWMPC approved and submitted the proposed amendment to the Roscommon County  
Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes, and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County, and

NOW, THEREFORE, BE IT RESOLVED THAT 3/13/20  
approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County.

After discussion, the vote was:

YEAS: KURTIS NORTON  
ANN Church KATHLEEN WRAY  
NAYS: SARAH WATSON RON WATSON  
ABSENT: N/A  
ABSTAIN: N/A

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN  
COUNTY OF ROSCOMMON

I, the undersigned the duly qualified and acting Clerk of Austin Township  
Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular special meeting of the March Austin Board  
held on the 15 day of March, 2020, a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.

[Signature]  
(Signature)

Clerk  
(Title)

Ronald L. Watson, Jr.  
(Print Name)

MOTIONS AND RESOLUTIONS

For Meeting of 3/13/21

Motion by \_\_\_\_\_ Second by \_\_\_\_\_

Motion or Resolution Solid Waste

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Results:

Roll Call

Kurtis Norton      Aye     Nay     Abstained     Absent

Sarah Watson      Aye     Nay     Abstained     Absent

Ann Church        Aye     Nay     Abstained     Absent

Kathleen Wray     Aye     Nay     Abstained     Absent

Ron Watson        Aye     Nay     Abstained     Absent

Motion carried X

RESOLUTION NO. 2020-07

FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN

At a regular/special meeting of the Backus Township Board, County of Roscommon, State of Michigan held at 3888 S Maple Vly. Rd. St Helen, Michigan on the 7<sup>th</sup> day of July, 2020.

PRESENT: Michael Orzechowski, Supervisor, Louise Nagy, Clerk  
Darlene Rase, Treasurer, Lidona Doll, Trustee

ABSENT: Russell Hurren, Trustee

Clerk Nagy offered the following resolution and move for its adoption. The motion was supported by Trustee Doll

WHEREAS, Roscommon County, as well as all counties in the State of Michigan, are required by Part 115 of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste Management Plan (SWMP); and

WHEREAS, the Roscommon County Board of Commissioners, authorized an amendment to the current 2000 SWMP. and

WHEREAS, the Roscommon County Board of Commissioners appointed the Solid Waste Management Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the amendment; and

WHEREAS, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to Section 11534 of Act 451; and

WHEREAS, the DPA sent copies of the proposed SWMP amendment to all municipalities; held a public hearing on the proposed amendment, and has revised the proposed amendment in response to comments made at the hearing as appropriate; and

WHEREAS, the SWMPC approved and submitted the proposed amendment to the Roscommon County Board of Commissioners' and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes; and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County; and

NOW, THEREFORE, BE IT RESOLVED THAT Backus Township approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County

After discussion, the vote was:

YEAS: Oszecowski, Nagy, Rose, Dell

NAYS: \_\_\_\_\_

ABSENT: Hurren

ABSTAIN: \_\_\_\_\_

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN  
COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of Backus Township Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular special meeting of the Backus Township Board held on the 7<sup>th</sup> day of July, 2020, a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended

Luise M Nagy  
(Signature)

Clerk  
(Title)

Luise M Nagy  
(Print Name)

RESOLUTION FOR THE APPROVAL OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLAN

By action of the Board/Commission/Council of DENTON TOWNSHIP  
(City/Township/Village)

It is hereby resolved that we Approve  
(Approve/Disapprove) the 2020 Amendment to the

Roscommon County Solid Waste Management Plan, prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

Robert C. Pauley Supervisor  
Appropriate Local Representative Title

Carol A. Asher Clerk  
Witnessed by Title

07-02-2020  
Dated

FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN

At a regular meeting of the Gerrish Township Board, County of Roscommon, State of Michigan held via teleconference, Roscommon, Michigan on the 11th day of August, 2020.

PRESENT: Udy, Patchin, Tulgetske, Link, Lippert

ABSENT: None

Trustee Link offered the following resolution and move for its adoption. The motion was supported by Trustee Lippert.

WHEREAS, Roscommon County, as well as all counties in the State of Michigan, are required by Part 115 of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste Management Plan (SWMP); and

WHEREAS, the Roscommon County Board of Commissioners, authorized an amendment to the current 2000 SWMP; and

WHEREAS, the Roscommon County Board of Commissioners appointed the Solid Waste Management Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the amendment; and

WHEREAS, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to Section 11534 of Act 451; and

WHEREAS, the DPA sent copies of the proposed SWMP amendment to all municipalities; held a public hearing on the proposed amendment; and has revised the proposed amendment in response to comments made at the hearing as appropriate; and

WHEREAS, the SWMPC approved and submitted the proposed amendment to the Roscommon County Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes; and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County; and

NOW, THEREFORE, BE IT RESOLVED THAT Gerrish Township approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County.

After discussion, the vote was:

YEAS: Udy, Patchin, Tulgetskc, Link, Lippert

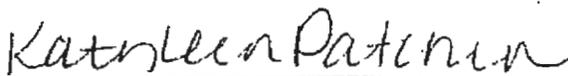
NAYS: None

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN

COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of Gerrish Township, Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular meeting of the Gerrish Township Board, held on the 11th day of August, 2020, a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.



Kathleen Patchin

Township Clerk

RESOLUTION NO. 2020-7

FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN

At a regular/special meeting of the Higgins Township Board, County of  
Roscommon, State of Michigan held at Higgins Township, Michigan on  
the 10 day of August, 2020

PRESENT Supervisor Curnalia, Clerk Borgula, Treasurer Sullivan,  
Trustee Jennette, Trustee Peters

ABSENT None

Treasurer Sullivan offered the following resolution and move for its adoption. The motion was  
supported by Supervisor Curnalia

WHEREAS Roscommon County, as well as all counties in the State of Michigan, are required by Part 115  
of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste  
Management Plan (SWMP), and

WHEREAS, the Roscommon County Board of Commissioners, authorized an amendment to the current  
2000 SWMP, and

WHEREAS, the Roscommon County Board of Commissioners appointed the Solid Waste Management  
Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the  
amendment, and

WHEREAS, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to  
Section 11534 of Act 451, and

WHEREAS, the DPA sent copies of the proposed SWMP amendment to all municipalities; held a public  
hearing on the proposed amendment; and has revised the proposed amendment in response to comments  
made at the hearing as appropriate; and

WHEREAS, the SWMPC approved and submitted the proposed amendment to the Roscommon County  
Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes, and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County, and

NOW, THEREFORE, BE IT RESOLVED THAT Higgins Township Board  
approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County

After discussion, the vote was

YEAS: Supervisor Curnalia, Clerk Borgula, Treasurer Sullivan,  
Trustee Jennette, Trustee Peters

NAYS None

ABSENT None

ABSTAIN None

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN  
COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of Higgins Township  
Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular/special meeting of the Higgins Township Board, held on the 10 day of August, 2020 a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.

Maggie Borgula  
(Signature)

Township Clerk  
(Title)

Margaret Borgula  
(Print Name)

RESOLUTION NO. 2020-24

FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN

At a regular/special meeting of the Lake Township Board, County of  
Roscommon, State of Michigan held at 1380 Milwaukee Rd, Lake Twp #111, Michigan on  
the 14 day of July, 2020.

PRESENT: Emmons, Trier, Clare, Lukatch  
Furhoff

ABSENT: Ø

Clare offered the following resolution and move for its adoption. The motion was  
supported by Emmons.

WHEREAS, Roscommon County, as well as all counties in the State of Michigan, are required by Part 115  
of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste  
Management Plan (SWMP); and

WHEREAS, the Roscommon County Board of Commissioners, authorized an amendment to the current  
2000 SWMP; and

WHEREAS, the Roscommon County Board of Commissioners appointed the Solid Waste Management  
Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the  
amendment; and

WHEREAS, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to  
Section 11534 of Act 451; and

WHEREAS, the DPA sent copies of the proposed SWMP amendment to all municipalities; held a public  
hearing on the proposed amendment; and has revised the proposed amendment in response to comments  
made at the hearing as appropriate; and

WHEREAS, the SWMPC approved and submitted the proposed amendment to the Roscommon County  
Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes; and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County; and

NOW, THEREFORE, BE IT RESOLVED THAT Lake Township approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County.

After discussion, the vote was:

YEAS: C. Lukatch, T. Clark, H. Trier, T. Farhat, D. Emmons

NAYS: ~~0~~

ABSENT: ~~0~~

ABSTAIN: ~~0~~

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN  
COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of Lake Township Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular/special meeting of the Lake Township Board, held on the 14 day of July, 2020, a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.

Tonya Clare  
(Signature)

Clerk  
(Title)

Tonya Clare  
(Print Name)

LYON TOWNSHIP  
ROSCOMMON COUNTY  
RESOLUTION 2021-001

FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN

At a regular Board meeting of the Lyon Township, County of Roscommon, State of Michigan held at the Township Hall on the 20<sup>th</sup> day of January, 2021

Present: Supervisor Koenigbauer, Clerk Schnell, Treasurer Grier, Trustee Carlson, Trustee Tomak

Absent: None

Schnell offered the following resolution and move for its adoption. The motion was supported by Carlson.

WHEREAS, Roscommon County, as well all counties in the State of Michigan, are required by Part 115 of PA451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste Management Plan (SWMP), and

WHEREAS, The Roscommon County Board of Commissioners, authorized and amendment to the current 2000 SWMP; and

WHEREAS, the Roscommon County Board of Commissioners appointed the Solid Waste Management Planning Committee (SWMPC) as the designated Solid Waste Planning Agency (DPA) to prepare the amendment; and

WHEREAS, the Roscommon County Board appointed a SWMPC, pursuant to Section 11534 of Act 451; and

WHEREAS, the DPA sent copies of the proposed SWMP amendment to all municipalities; held a public hearing on the proposed amendment; and has revised the proposed amendment in response to comments made at the hearing as appropriate; and

WHEREAS, the SWMPC approved and submitted the proposed amendment to the Roscommon County Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County board of Commissioners approved the SWMP amendment without changes; and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the Municipalities in the County; and

NOW THEREFORE, BE IT RESOLVED THAT Lyon Township of Roscommon County approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County.

After discussion, the vote was:

YEAS: Koenigbauer, Schnell, Grier, Carlson, Tomak

NAYS: None

ABSENT: None

ABSTAIN: None

RESOLUTION DECLARED ADOPTED.

STATE OF MICHIGAN  
COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of Lyon Town of Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at the regular meeting of the Lyon Township Board, held on the 20<sup>th</sup> day of January, 2021, a copy of which is on file in my office. Public Notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.

A handwritten signature in black ink, appearing to read "D. Schnell", is written over a horizontal line.

Doug Schnell – Clerk

**RESOLUTION NO.4-2020**

**FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN**

At a regular meeting of the Markey Township Board, County of Roscommon, State of Michigan held at 4974 E Houghton Lake Dr. Houghton Lake, MI 48629 on the 9<sup>th</sup> day of November, 2020.

**PRESENT:** Supervisor Donaldson, Treasurer Ciaramitaro, Clerk Tussey, Trustee Engle and Trustee Peters

**ABSENT:** None

Supervisor Donaldson offered the following resolution and moved for its adoption. The motion was supported by Clerk Tussey.

**WHEREAS**, Roscommon County, as well as all counties in the State of Michigan, are required by Part 115 of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste Management Plan (SWMP); and

**WHEREAS**, the Roscommon County Board of Commissioners authorized an amendment to the current 2000 SWMP; and

**WHEREAS**, the Roscommon County Board of Commissioners appointed the Solid Waste Management Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the amendment; and

**WHEREAS**, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to Section 11534 of Act 451; and

**WHEREAS**, the DPA sent copies of the proposed SWMP amendment to all municipalities; held a public hearing on the proposed amendment; and has revised the proposed amendment in response to comments made at the hearing as appropriate; and

**WHEREAS**, the SWMPC approved and submitted the proposed amendment to the Roscommon County Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes; and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County; and

**NOW, THEREFORE, BE IT RESOLVED THAT MARKEY TOWNSHIP** approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County.

After discussion, the vote was:

YEAS: Supervisor Donaldson, Clerk Tussey, Trustee Engle, Trustee Peters, and Treasurer Ciaramitaro

NAYS: None

ABSENT: None

ABSTAIN: None

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN  
COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of Markey Township, Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular meeting of the Markey Township Board held on the 9<sup>th</sup> day of November, 2020, a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.

Sheryl J. Tussey  
(Signature)

Clerk  
(Title)

Sheryl J. Tussey  
(Print Name)

RESOLUTION FOR THE APPROVAL OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLAN

By action of the Board/Commission/Council of Nester township  
(City/Township/Village)

It is hereby resolved that we Approve the 2020 Amendment to the  
(Approve/Disapprove)

Roscommon County Solid Waste Management Plan, prepared pursuant to the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Part 115, Solid Waste Management, and its Administrative Ruled.

[Signature] Supervisor  
Appropriate Local Representative Title

Carolyn Corlew Clerk  
Witnessed by Title

12-10-2020  
Dated

**RESOLUTION NO. 2020-10-01**

**FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN**

At a regular meeting of the Richfield Township Board, County of Roscommon, State of Michigan held at Richfield Township Hall, Saint Helen, Michigan on the 20<sup>th</sup> day of October, 2020 @ 7:00pm.

**PRESENT:** Supervisor VanWormer, Clerk Scott, Treasurer Lacey, & Trustee Milner

**ABSENT:** Trustee Huntley

Supervisor VanWormer offered the following resolution and move for its adoption. The motion was supported by Treasurer Lacey

**WHEREAS**, Roscommon County, as well as all counties in the State of Michigan, are required by Part 115 of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste Management Plan (SWMP); and

**WHEREAS**, the Roscommon County Board of Commissioners, authorized an amendment to the current 2000 SWMP; and

**WHEREAS**, the Roscommon County Board of Commissioners appointed the Solid Waste Management Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the amendment; and

**WHEREAS**, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to Section 11534 of Act 451; and

**WHEREAS**, the DPA sent copies of the proposed SWMP amendment to all municipalities, held a public hearing on the proposed amendment; and has revised the proposed amendment in response to comments made at the hearing as appropriate; and

**WHEREAS**, the SWMPC approved and submitted the proposed amendment to the Roscommon County Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes; and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County, and

NOW, THEREFORE, BE IT RESOLVED THAT Richfield Township approves and adopts the 2020 SWMP amendment as its guida for addressing solid waste management in Roscommon County.

After discussion, the vote was:

YEAS: VanWormer, Lacey, Milner, Scott

NAYS: None

ABSENT: Huntley

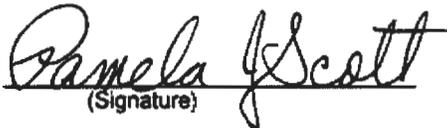
ABSTAIN: None

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN

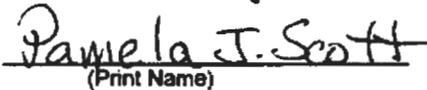
COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of Richfield Township, Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular meeting of the Richfield Township Board, held on the 20th day of October, 2020, a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.

  
(Signature)

Clerk

\_\_\_\_\_  
(Title)

  
(Print Name)

**RESOLUTION #2020-8-11a**  
**ROSCOMMON TOWNSHIP**  
**RESOLUTION REGARDING 2020 AMENDMENT TO**  
**ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLAN**

By action of the Roscommon Township Board of Trustees, at its August 11, 2020 regular board meeting; IT IS HEREBY RESOLVED that we disapprove of the 2020 Amendment to the Roscommon County Solid Waste Management Plan, as presented and prepared pursuant to the Natural Resources Environmental Protection Act, 1994 PA 451, as amendment, Part 115, Solid Waste Management, and its administrative rules.

The foregoing resolution offered by Board Member Milburn.

Second offered by Board Member Christian.

Upon roll call vote, the following voted:

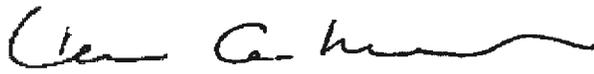
"Yes": DuPuis, Hose, Milburn, Randall and Christian

"No":None

The Supervisor declared the resolution adopted.

I hereby certify that this a true copy of the Resolution #2020-8-11a as approved by Roscommon Township Board on August 11, 2020, at its regular meeting.

Dated: August 17, 2020



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Carie A. Milburn  
Roscommon Township Clerk

RESOLUTION NO. 6-1 (2020)

FOR ADOPTION OF THE 2020 AMENDMENT  
TO THE ROSCOMMON COUNTY 2000 (Approved September 20, 2001)  
SOLID WASTE MANAGEMENT PLAN

At a regular/special meeting of the Village of Roscommon, County of  
Roscommon, State of Michigan held at 702 Lake St., Roscommon, Michigan on  
the 18 day of October, 2020.

PRESENT: MILLER, FISHEL, DELOGE, EMERY, LUDWIG  
RUDY, ROEMER.

ABSENT: Ø

MILLER offered the following resolution and move for its adoption. The motion was  
supported by ROEMER.

WHEREAS, Roscommon County, as well as all counties in the State of Michigan, are required by Part 115  
of PA 451 of 1994 (Act 451), as amended, and the rule promulgated thereunder, to have a Solid Waste  
Management Plan (SWMP); and

WHEREAS, the Roscommon County Board of Commissioners, authorized an amendment to the current  
2000 SWMP; and

WHEREAS, the Roscommon County Board of Commissioners appointed the Solid Waste Management  
Planning Committee (SWMPC) as the Designated Solid Waste Planning Agency (DPA) to prepare the  
amendment; and

WHEREAS, the Roscommon County Board of Commissioners appointed a SWMPC, pursuant to  
Section 11534 of Act 451; and

WHEREAS, the DPA sent copies of the proposed SWMP amendment to all municipalities; held a public  
hearing on the proposed amendment; and has revised the proposed amendment in response to comments  
made at the hearing as appropriate; and

WHEREAS, the SWMPC approved and submitted the proposed amendment to the Roscommon County  
Board of Commissioners; and

WHEREAS, on June 10, 2020 the Roscommon County Board of Commissioners approved the SWMP amendment without changes; and

WHEREAS, Act 451 requires approval of the SWMP amendment by the County Board of Commissioners and at least sixty-seven percent (67%) of the municipalities in the County; and

NOW, THEREFORE, BE IT RESOLVED THAT VILLAGE OF ROSCOMMON approves and adopts the 2020 SWMP amendment as its guide for addressing solid waste management in Roscommon County.

After discussion, the vote was:

YEAS: 7  
NAYS: 0  
ABSENT: 0  
ABSTAIN: 0

**RESOLUTION DECLARED ADOPTED.**

STATE OF MICHIGAN  
COUNTY OF ROSCOMMON

I, the undersigned, the duly qualified and acting Clerk of VILLAGE OF ROSCOMMON Roscommon County, State of Michigan, do hereby certify that the forgoing is a true and complete copy of the proceedings taken at a regular/special meeting of the VILLAGE OF ROSCOMMON held on the 12 day of OCTOBER, 2020, a copy of which is on file in my office. Public notice of said meeting was given pursuant to and in compliance with Act 267, PS 1976, as amended.

Francis Dawson  
(Signature)

CLERK  
(Title)

FRANCIS DAWSON  
(Print Name)

STATE OF MICHIGAN



JOHN ENGLER, Governor

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

*"Better Service for a Better Environment"*

HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: [www.deq.state.mi.us](http://www.deq.state.mi.us)

RUSSELL J. HARDING, Director

September 20, 2001

Mr. Carl L. Geiger, Chairman  
Roscommon County Board of Commissioners  
P.O. Box 776  
Roscommon, Michigan 48653

Dear Mr. Geiger:

The Department of Environmental Quality (DEQ) received the locally approved update to the Roscommon County Solid Waste Management Plan (Plan) on December 26, 2000. Except for the item indicated below, the Plan is approvable. As outlined in the March 6, 2001 letter to you, from Mr. Stan Idziak, DEQ, Waste Management Division, and as agreed to by letter dated July 20, 2001, from you to Mr. Idziak, the DEQ makes a modification to the Plan as discussed below.

On [page III-27](#), under Siting Criteria and Process, it reads:

If the proposed facility is a sanitary landfill and the County has 66 months or more of disposal capacity remaining for all solid waste generated in the County, the County may, at its discretion, refuse to allow the facility to be sited. Remaining disposal capacity shall be determined by the County Solid Waste Management Advisory Board (SWMAB) by using the solid waste generation data contained in this plan and the capacity calculations on page IV-1. Furthermore, the SWMAB shall verify the capacity remaining at each of the disposal facilities authorized in this plan at the time an application is received.

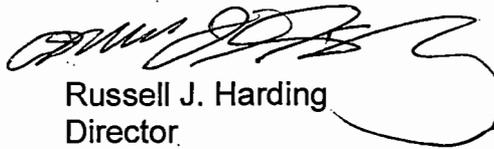
The paragraph preceding the above statement states that Roscommon County (County) has well over ten years of capacity, and a siting process for new facilities is not required. Since the Plan does not contain a siting process or criteria, the 66-month trigger to initiate the siting mechanism is not necessary. Therefore, the above statement is deleted from the Plan. Since the Plan does not contain siting criteria and does not identify specific locations for new disposal areas, any new disposal area in the County can only be sited through a Plan amendment. However, the Plan allows the establishment of publicly and/or privately operated Type A and Type B transfer stations anywhere in the County (page III-2).

By approving the Plan with the modification, the DEQ has determined that it complies with the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 administrative rules concerning the required content of solid waste management plans. Specifically, the DEQ has determined that the Plan identifies the enforceable mechanisms that authorize the state, a county, a municipality, or a person to take legal action to guarantee compliance with the Plan, as required by Part 115. The Plan is enforceable, however, only to the extent the County properly implements these enforceable mechanisms under applicable enabling legislation. The Plan itself does not serve as such underlying enabling authority, and the DEQ approval of the Plan neither restricts nor expands County authority to implement these enforceable mechanisms.

The Plan may also contain other provisions that are neither required nor expressly authorized for inclusion in a solid waste management plan. The DEQ approval of the Plan does not extend to any such provisions. Under Part 115, the DEQ has no statutory authority to determine whether such provisions have any force or effect.

The DEQ applauds your efforts and commitment in addressing the solid waste management issues in Roscommon County. If you have any questions, please contact Ms. Rhonda Oyer Zimmerman, Chief, Solid Waste Management Unit, at 517-373-4750.

Sincerely,



Russell J. Harding  
Director  
517-373-7917

cc: Senator George A. McManus, Jr.  
Representative Rick Johnson  
Mr. Arthur R. Nash Jr., Deputy Director, DEQ  
Mr. Timothy R. Sowton, Legislative Liaison, DEQ  
Mr. Jim Sygo, DEQ  
Ms. Joan Peck, DEQ  
Mr. Philip Roycraft, DEQ - Cadillac  
Ms. Rhonda Oyer Zimmerman, DEQ  
Mr. Stan Idziak, DEQ  
Roscommon County File

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# **Roscommon County Solid Waste Management Plan Update**

*December 2000*

**Approved by the  
County Solid Waste Management Planning Committee  
February 3, 2000**

**Approved by the County Board of Commissioners  
February 10, 2000**

**Approved by the Roscommon County Municipalities**

**Submitted to the  
Michigan Department of Environmental Quality**

*Prepared by the*  
**Roscommon County Solid Waste Management Planning Committee**

*With the assistance of the*  
**East Central Michigan Planning & Development Regional Commission  
3144 Davenport, Suite 200  
Saginaw MI 48602**

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**Roscommon County Solid Waste Management Plan Update**

**PLAN FORMAT**

FOR PREPARING

COUNTY SOLID WASTE MANAGEMENT PLANS

AS REQUIRED BY SECTION 11539a OF  
PART 115, SOLID WASTE MANAGEMENT, OF  
THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT  
1994 PA 451, AS AMENDED



John Engler, Governor  
Russell J. Harding, Director

Michigan Department of Environmental Quality  
Waste Management Division

This document is available to download from our Internet site at:  
<http://www.deq.state.mi.us/wmd/sections/swpshome.html>

EQP 5210 (8-97)

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# Roscommon County Solid Waste Management Plan Update

## Table of Contents

<b>Section</b>	<b>Page</b>
<b>Executive Summary</b>	<b>I-1</b>
<b>I. Introduction</b>	<b>I-4</b>
Goals and Objectives	I-4
<b>II. Data Base</b>	<b>II-1</b>
Solid Waste Disposal Areas	II-3
Solid Waste Facility Descriptions	II-4
Collection and Transportation Infrastructure	II-7
Evaluation of Deficiencies and Problems	II-8
Demographics	II-9
Land Development	II-10
Solid Waste Management Alternatives	II-11
<b>III. Selected Solid Waste Management System</b>	<b>III-1</b>
Import/Export Authorizations	III-3
Solid Waste Disposal Areas	III-6
Collection and Transportation Infrastructure	III-11
Resource Conservation Efforts	III-12
Waste Reduction, Recycling, & Composting Programs	III-13
Resource Recovery Management Entities	III-23
Timetable for Selected System Implementation	III-26
Siting Procedure	III-27
Management Components	III-28
Local Ordinances	III-31
<b>IV. Capacity Certification</b>	<b>IV-1</b>
<b>Appendix A: Additional Information Regarding the Selected System</b>	
Evaluation of Recycling	A-1
Detailed Features of Recycling & Composting Programs	A-2
Coordination Efforts	A-5
Costs & Funding	A-6
Evaluation Summary	A-7
Advantages & Disadvantages	A-9
<b>Appendix B: Non-Selected Systems</b>	<b>B-1</b>

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## Table of Contents

<b>Section</b>	<b>Page</b>
<b>Appendix C: Public Participation and Approval</b>	<b>C-1</b>
<b>Appendix D: Attachments</b>	<b>D-1</b>

**1997 PLAN UPDATE 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: December 21, 2000

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

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.

<u>Municipality</u>	<u>Original Planning County</u>	<u>New Planning County</u>
---------------------	---------------------------------	----------------------------

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:  
East Central Michigan Planning & Development Regional Commission (ECMPDR)

CONTACT PERSON: Sue Fortune, Executive Director

ADDRESS: 3144 Davenport Avenue, Suite 200  
Saginaw MI 48602

PHONE: 517-797-0800 FAX: 517-797-0896  
(If Applicable)

E-MAIL: (If Applicable)

CENTRAL REPOSITORY LOCATION(S): (1) ECMPDR, 3144 Davenport Ave, Suite 200, Saginaw, Michigan, 48602 (2) Roscommon County Board Office, 112 S. Fourth Street, Roscommon, Michigan 48653.

## 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 update found on the following pages will take precedence over the executive summary.

### OVERALL VIEW OF THE COUNTY (attach additional pages as necessary)

Township or Municipality Name	Population	% Land Use		% of Economic Base*				
		Rural	Urban	Ag	For	Ind	Com	Other
<u>Au Sable Twp</u>	<u>338</u>	<u>99%</u>	<u>1%</u>	<u>14.6%</u>	<u>0</u>	<u>0</u>	<u>2.9%</u>	<u>82.5%</u>
<u>Backus Twp</u>	<u>258</u>	<u>98%</u>	<u>2%</u>	<u>1.5%</u>	<u>0</u>	<u>0.03%</u>	<u>5.0%</u>	<u>93.5%</u>
<u>Denton Twp</u>	<u>4,815</u>	<u>90%</u>	<u>10%</u>	<u>0.3%</u>	<u>0</u>	<u>0.2%</u>	<u>13.3%</u>	<u>86.2%</u>
<u>Gerrish Twp</u>	<u>2,875</u>	<u>90%</u>	<u>10%</u>	<u>0.1%</u>	<u>0</u>	<u>0</u>	<u>2.1%</u>	<u>97.8%</u>
<u>Higgins Twp</u>	<u>2,980</u>	<u>92%</u>	<u>8%</u>	<u>4.2%</u>	<u>0</u>	<u>2.4%</u>	<u>24.5%</u>	<u>68.9%</u>
<u>Lake Twp</u>	<u>1,359</u>	<u>95%</u>	<u>5%</u>	<u>5.5%</u>	<u>0</u>	<u>0</u>	<u>6.4%</u>	<u>88.1%</u>
<u>Lyon Twp</u>	<u>1,215</u>	<u>94%</u>	<u>6%</u>	<u>2.3%</u>	<u>0</u>	<u>0.2%</u>	<u>2.5%</u>	<u>94.8%</u>
<u>Markey Twp</u>	<u>2,009</u>	<u>92%</u>	<u>8%</u>	<u>1.4%</u>	<u>0</u>	<u>0</u>	<u>5.9%</u>	<u>92.7%</u>
<u>Nester Twp</u>	<u>238</u>	<u>99%</u>	<u>1%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>100%</u>
<u>Richfield Twp</u>	<u>3,816</u>	<u>94%</u>	<u>6%</u>	<u>1.4%</u>	<u>0</u>	<u>0</u>	<u>5.6%</u>	<u>93.0%</u>
<u>Roscommon Twp</u>	<u>3,554</u>	<u>94%</u>	<u>6%</u>	<u>2.0%</u>	<u>0</u>	<u>0.01%</u>	<u>23.0%</u>	<u>74.9%</u>
<u>Roscommon Village</u>	<u>978</u>	Included with Higgins Twp.						
<u>ROSCOMMON COUNTY</u>	<u>23,467</u>	<u>95%</u>	<u>5%</u>	<u>1.7%</u>	<u>5.4%</u>	<u>0.2%</u>	<u>8.0%</u>	<u>84.7%</u>

Total Population 23,467

\*Ag = Agriculture; For = Forestry; Ind = Industry; Com = Commercial; Oth = All Other Economic Bases  
Additional listings, if necessary, are listed on an attached page.

## EXECUTIVE SUMMARY

### CONCLUSIONS

Roscommon County's current solid waste management system is functioning well, and it provides an effective means for managing the solid waste that is generated in the county. Solid waste collection and transportation services are mainly provided by the private sector and are available to all residents, businesses, and industries in the county. Solid waste that is generated in Roscommon County is currently transported to the Northern Oaks Recycling and Disposal Facility in Clare County, the Whitefeather Landfill in Bay County, and the Waters

Landfill in Crawford County for final disposal, and these arrangements will continue under the updated plan. This plan also authorizes the disposal of solid waste from Roscommon County at the Montmorency-Oscoda Landfill in Montmorency County. These landfills have sufficient capacity to provide for Roscommon County's solid waste disposal needs for the next 10 years and beyond.

Separation and collection of recyclable materials and yard waste for composting takes place in several communities in the County through both curbside collection and drop-off sites. The updated plan encourages the continuation of these programs.

It is the conclusion of this planning process that the current solid waste management system is capable of meeting Roscommon County's needs for solid waste collection, transportation, materials recovery, and disposal. However, the County and its municipalities also desire to continually seek ways to improve the existing management system and its various components.

## **SELECTED ALTERNATIVES**

Roscommon County's current solid waste management system is functioning well, and it provides an effective means of managing the solid waste that is generated within the County. However, this Plan Update also seeks to provide the County and municipalities with a high degree of flexibility for exploring and pursuing system improvements in the future. Therefore, Roscommon County's selected management system combines several aspects of the various alternatives that were considered. An overview of the major components of this system follows.

1. **Collection and Transportation of Solid Waste.** The existing collection and transportation system will remain in place. Solid waste collection services will continue to be provided to all county residents, businesses, and industries. Currently, these services are provided to residents by private enterprise through municipal contracts with solid waste haulers. Businesses, industries, and institutions presently make individual arrangements with private industry for solid waste collection services. However, it is not this plan's intent to preclude involvement by municipalities from providing solid waste collection services to citizens within their respective jurisdictions. In the future, the County and municipalities are encouraged to explore the potential benefits of forming a county or multi-county solid waste authority (or similar entity) for the provision of some solid waste management services.
2. **Disposal of Solid Waste.** Licensed Type II landfills in Clare, Bay, Montmorency, and Crawford Counties will continue to meet Roscommon County's solid waste disposal needs for the planning period. However, the County and local government units also wish to retain the option of developing a publicly-owned solid waste disposal facility should such a project prove to be economically feasible and beneficial.
3. **Recycling.** Under the selected alternative, the current programs are encouraged to continue their operations. All local governments are encouraged to provide recycling opportunities for their residents, either through arrangements for drop-off sites or the provision of curbside collection for recyclables. The County and local units will also continue to explore the potential for cooperative recycling efforts both within the County and with other surrounding counties. Discussions on potential regional recycling projects are currently being held with Antrim, Crawford, Kalkaska, and Otsego Counties.

4. Composting. The plan encourages the continuation of the current municipal composting operations. "Backyard" composting by residents will also continue to be encouraged. All municipalities are encouraged to provide composting opportunities for their residents as needs dictate, either through curbside collection of yard wastes or through local drop-off sites. Again, the plan does not intend to limit the ability of any local government unit to establish a composting site and program. Cooperative arrangements among various government units will be explored under the selected system. Opportunities for regional composting programs in cooperation with surrounding counties will also be investigated.

5. Separation of Household Hazardous Wastes. There is presently no formal hazardous waste collection program in place. The high costs associated with such programs generally preclude the County from directly providing this type of service. The Northern Oaks Recycling and Disposal Facility in Clare County holds an annual Household Hazardous Waste Collection Day at the facility. Roscommon County residents are eligible to participate in this program. However, the County should also work in partnership with the private solid waste industry to explore ways to provide expanded opportunities for separation and collection of household hazardous wastes from residents.

6. Resource Conservation and Waste Reduction. Resource conservation and waste reduction will continue to be encouraged on a voluntary basis by residents, businesses, and industries. The County should investigate ways to expand public information and education in this area.

7. Transfer Facilities. The existing "Type B" transfer facilities will be continued under the selected plan. Additional Type B facilities may be established in the future by local government units, either in cooperation with the private solid waste industry or on their own. Also, a "Type A" transfer facility (one that requires licensing by the DEQ) may also be developed under the selected plan. A Type A facility could be owned and operated publicly, privately, or through some combination. Such a facility may be desirable in the future to make the transfer of solid waste to landfills in other counties more efficient, and it could also serve as a point for collection and separation of recyclable materials.

# INTRODUCTION

## 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 the 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 which they support:

Goal 1: Develop an efficient, environmentally sound, and cost-effective solid waste management system that is capable of meeting the County's diverse needs for the next 10 years.

Objective 1a: Assign within the County the responsibilities for carrying out the various actions required for implementing the adopted Solid Waste Management Plan.

Objective 1b: Encourage new and innovative materials and energy recovery technologies.

Goal 2: 2. Encourage inter-county cooperation in the development of a solid waste management system.

Objective 2a: Investigate opportunities for multi-county materials recovery programs.

Goal 3: 3. Encourage continued participation by the private sector in all solid waste management activities.

Objective 3a: Arrange for adequate landfill space to meet the County's solid waste disposal needs.

Objective 3b: Encourage the expanded use of private/non-profit organizations for operating and coordinating formal efforts in recycling and resource recovery.

Goal 4 Develop an integrated solid waste management system that includes waste reduction, source separation, recycling, composting, and landfilling as its major components.

Objective 4a: Develop and implement education programs for waste reduction, source separation, recycling, and integrated solid waste management for County residents.

Objective 4b: Encourage the expanded use of all feasible non-landfill alternatives for solid waste management.

Goal 5: Promote governmental, institutional, commercial, and industrial recycling capabilities.

Objective 5a: Review local government and public institution procurement policies and encourage the appropriate entities to revise them as necessary to further encourage the use of recycled and recyclable materials.

Objective 5b: Encourage the development and implementation of recycling programs for all feasible materials.

Goal 6: Encourage the creation and expansion of markets for recycled materials, and the use of recyclable and recycled materials by government, business, industry, and the public.

Objective 6a: Review local government and public institution procurement policies and encourage the appropriate entities to revise them as necessary to further encourage the use of recycled and recyclable materials.

Objective 6b: Encourage appropriate local, state, and federal legislation to provide incentives for waste reduction, source separation, and recycling.

Note: Additional goals and objectives are listed on attached pages.

## DATA BASE

Identification of sources of waste generation within the county, total quantity of solid waste generated to be disposed, and sources of the information. (Attach additional pages as necessary)

Solid waste generation estimates for Roscommon County were obtained from the most recent DEQ "Report of Solid Waste Landfilled in Michigan" for the period of October 1, 1997 through September 30, 1998. The report on volumes landfilled showed that 39,009 cubic yards of solid waste generated in Roscommon County were disposed of at licensed Type II landfills. No Type III solid waste disposal was reported. The main facilities presently used for disposal are the Northern Oaks RDF located in Clare County, the Whitefeather Landfill in Bay County, and the Waters Landfill in Crawford County.

Recycling data collected by local programs in the County show that approximately 870 tons of material were collected and marketed during 1998. This quantity also represents roughly 290 cubic yards of material that would have otherwise been placed in landfills. Also, about 11,000 cubic yards of yard wastes, wood wastes, and lake weeds were collected and composted during 1998. This represents additional material that was diverted from landfills.

The current solid waste collection and disposal system appears to be working well, and no major problems are anticipated. There are no special wastes generated in the county that create any unique problems for collection, transportation, or disposal. Landfill capacity in the region is adequate and provides Roscommon County with more than ten years of capacity.

The types of solid waste generated in Roscommon County have been categorized below. Waste volumes have also been projected for five-year and ten-year planning periods.

<u>Waste Type</u>	<u>Current Annual Volume</u>	<u>Five-Year Annual Volume (2004)</u>	<u>Ten-Year Annual Volume (2009)</u>
Residential	30,179 cyds.	34,200 cyds.	36,000 cyds.
Commercial	8,048 cyds.	9,120 cyds.	9,600 cyds.
Industrial	6,036 cyds.	6,840 cyds.	7,200 cyds.
Other*	6,036 cyds.	6,840 cyds.	7,200 cyds.

\* "Other" solid waste includes construction & demolition waste, wastewater treatment plant sludge, bulky items, tires, and agricultural waste.

TOTAL QUANTITY OF SOLID WASTE GENERATED:  
50,299  Tons or  Cubic Yards in one year (identify unit of time)

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:  
39,009  Tons or  Cubic Yards in one year (identify unit of time)

## **DATA BASE**

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.

The following is a listing of the solid waste disposal areas that Roscommon County currently utilizes to meet its disposal needs. All of these facilities are located in surrounding counties. Detailed descriptions of these disposal areas are included on the following pages.

Type II Landfills (County Location):

Whitefeather Landfill (Bay County)

Northern Oaks Recycling & Disposal Facility (Clare County)

Waters Landfill (Crawford County)

**DATA BASE**

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Whitefeather Landfill

County: Bay Location: Town: 17N Range: 4E Section(s): 2

Map identifying location included in Attachment Section: x 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: Republic Services

Operating Status (check)

- open
- closed
- licensed
- unlicensed
- construction permit
- open, but closure pending

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

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

Asbestos

Site Size:

Total area of facility property: 752 acres  
Total area sited for use: 106 acres  
Total area permitted: 56.5 acres  
Operating: 24.5 acres  
Not excavated: 32 acres

Current capacity: 4,175,153  tons or  yds<sup>3</sup>  
Estimated lifetime: 18.8 years  
Estimated days open per year: 260 days  
Estimated yearly disposal volume: 380,000  tons or  yds<sup>3</sup>

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Northern Oaks Recycling & Disposal Facility

County: Clare Location: Town: 19N Range: 4W Section(s): 32

Map identifying location included 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

Operating Status (check)

- open
- closed
- licensed
- unlicensed
- construction permit
- open, but closure pending

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other:

\* Explanation of special wastes, including a specific list and/or conditions:  
WWTP filter cake, sludge

Site Size:

Total area of facility property:	<u>320</u>	acres
Total area sited for use:	<u>76</u>	acres
Total area permitted:	<u>76</u>	acres
Operating:	<u>19</u>	acres
Not excavated:	<u>57</u>	acres
Current capacity:	<u>8,755,100</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>43</u>	years
Estimated days open per year:	<u>260</u>	days
Estimated yearly disposal volume:	<u>409,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>NA</u>	megawatts
Waste-to-energy incinerators:	<u>NA</u>	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Waters Landfill (City Environmental Services of Waters)

County: Crawford Location: Town: 28N Range: 3E Section(s): 4

Map identifying location included in Attachment Section: X 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

Operating Status (check)

- open
- closed
- licensed
- unlicensed
- construction permit
- open, but closure pending

Waste Types Received (check all that apply)

- 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>256</u>	acres
Total area sited for use:	<u>252</u>	acres
Total area permitted:	<u>79</u>	acres
Operating:	<u>9.7</u>	acres
Not excavated:	<u>64.87</u>	acres
Current capacity:	<u>5,700,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>20</u>	years
Estimated days open per year:	<u>313</u>	days
Estimated yearly disposal volume:	<u>200,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects:	<u>NA</u>	megawatts
Waste-to-energy incinerators:	<u>NA</u>	megawatts

## **DATA BASE**

### **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 collection and transportation of solid waste that is generated at residences, businesses, and industries in Roscommon County is accomplished exclusively by the private solid waste industry. In all local governments within the County, solid waste collection services are provided under municipal contracts with private industry.

Recycling drop-off sites are available for residents in Denton, Gerrish, and Higgins Townships, and in the Village of Roscommon. Curbside collection of recyclables takes place in Roscommon Township.

Curbside collection of yard waste takes place in Gerrish, Higgins, Markey and Lyon Townships, and in the Village of Roscommon. Composting drop-off sites are also furnished in Denton, Gerrish, Higgins, and Roscommon Townships, and in Roscommon Village.

Current information on solid waste collection services in Roscommon County is summarized in the following table. A key to the information in the table is also attached.

**Roscommon County  
Solid Waste Collection & Transportation Information**

Community	1 Service Provider	2 Service Type		3 Payment Method	4 Additional Services	5 Transfer Station		6 Landfill
		Curbside	Drop-off Site			Type A	Type B	
<b>Townships</b>								
Au Sable	WMI	X		S			X	Northern Oaks
Backus	WMI	X		S			X	Northern Oaks
Denton	WMI	X		S	RB, RD CS			Northern Oaks
Gerrish	WMI	X		S	RD, YW CS			Northern Oaks Waters
Higgins	WMI	X		G, S	RD (4), YW CS			Northern Oaks
Lake	WMI	X		S				Waters
Lyon	WMI	X		S				Waters
Markey	WMI	X		S				Northern Oaks
Nester	WMI	X		S		X		Northern Oaks
Richfield	WMI	X		S				Northern Oaks
Roscommon Village	WMI	X		S	RC, CS			Northern Oaks
Roscommon	WMI	X		G, S	RD, YW CS			Northern Oaks

**Solid Waste Collection & Transportation Services  
Key to Information in the Table**

The following numbers refer to the numbered blocks on the form:

1. **Service Provider.** This entry identifies the firms or other organizations that provide solid waste collection services in the community:  
WMI                      Waste Management
  
2. **Service Type.** These columns are marked to indicate whether solid waste is picked up from residences (curbside service) or must be transported to a drop-off site (transfer station or similar arrangement).
  
3. **Payment Method.** The following codes to indicate the method of payment for services:  
  
I    Individuals billed directly for service  
G    Services are paid for from the local government's General Fund  
S    A special fee is levied for trash collection, such as a special assessment
  
4. **Additional Services.** The following codes indicate any additional services that are available.  
  
RC                      Curbside collection of separated recyclable materials from residences is provided.  
RB                      Collection of specified recyclable materials from businesses is provided.  
RD                      Separated recyclable materials may be dropped off at a designated site in the community.  
YW                      Separate collection of yard waste is provided to residences.  
CS                      A site where residents may drop off yard waste for composting is provided in the community.
  
5. **Transfer Station.** The columns are marked if a transfer station is located in the community.  
  
*Type A* transfer stations are generally enclosed facilities where solid waste is mechanically unloaded from commercial collection vehicles. The waste is often compacted for transport to a landfill in large loads.  
  
*Type B* transfer stations generally consist of roll-off units or "dumpster" containers where residents may directly deposit their garbage. The containers are picked up or emptied by collection vehicles for transport to a landfill.
  
6. **Landfill.** This entry indicates the landfill where the solid waste generated in the community is taken for final disposal.

## **DATA BASE**

### **EVALUATION OF DEFICIENCIES AND PROBLEMS**

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

As part of the plan update process, the Roscommon County Solid Waste Management Planning Committee (SWMPC) considered problems and deficiencies in the current solid waste system. The following is a compilation of the committee's responses on this topic:

1. Lack of competition in the solid waste industry is a concern.
2. Northern Oaks landfill in Clare County is primary disposal site for most of Roscommon County's solid waste. This facility is also owned by Waste Management. There are concerns over the potential for rising disposal charges and limited choices in hauling firms and disposal sites.
3. Because of the concerns identified in #1 and #2 above, some local officials feel that a new publicly available disposal facility should be considered.
4. There are problems in marketing recyclable materials that are collected, such as low market prices and high costs for transporting materials to markets.
5. Better data collection and tracking is needed for recycling efforts.
6. Efforts should be directed toward increasing recycling participation (should aim for 100% participation).
7. Illegal dumping on forest lands and other locations is a problem.

## **DATA BASE**

### **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.

From 1990 to 1997, Roscommon County's population is estimated to have grown by over 17%. This represents an annual growth rate of nearly 2.5%. If this trend continues, the county population will reach 26,765 by 2003 and 30,179 by 2008.

Population estimates for the municipalities within the County are available through 1996. Population growth within the local government units during 1990 through 1996 ranged from 6.2% (Nester Township) to 83.8% (Higgins Township).

Information on recent population trends in Roscommon County, and projections for both population growth and solid waste generation over the next 10 years are shown on the attached pages.

Roscommon County  
Current Annual Solid Waste Generation & Disposal

Disposal Facility	Type II Solid Waste (% of total)	Type III Solid Waste
Northern Oaks RDF (Clare)	24,252 cubic yards	0
Whitefeather (Bay)	2,133 cubic yards	0
Waters Landfill (Crawford)	12,624 cubic yards	0
<b>Total</b>	<b>39,009 cubic yards</b>	<b>0</b>

Source: "Report of Solid Waste Landfilled in Michigan October 1, 1997 – September 30, 1998," Michigan Department of Environmental Quality, Waste Management Division, February 4, 1999.

Roscommon County Population Trends

1990 Census	1996 Estimate	1997 Estimate	% Change 1990 – 1997	Average Change Per Year
19,776	22,831	23,174	17.2%	2.46%

Source: Bureau of the Census, U.S. Department of Commerce, Federal-State Cooperative Program for Population Estimates, Released on March 17, 1998.

Roscommon County  
Population and Solid Waste Generation Projections

	1998	2003	2008
<b>County Population</b>	23,737	26,765	30,179
<b>Annual Solid Waste Generation</b>	39,009 cubic yards	44,049 cubic yards	49,740 cubic yards

Projections calculated based on estimated 1997 population of 23,174 and FY 98 solid waste volume of 39,009 cubic yards landfilled. Rate of increase of both population & solid waste landfilled was assumed to be 2.46% per year.

## DATA BASE

### 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.

Roscommon County is primarily a rural, forested, and recreational area. Approximately 90% of the county's land area is comprised of forests, water bodies, and wetlands. Public State Forest lands account for about one-half of the land area. Higgins and Houghton Lakes, Lake St. Helen, and the Au Sable and Muskegon Rivers provide abundant recreation opportunities.

Federal, state, and local governments are the largest employers in the county. Retail trade, tourism, services, manufacturing, and petroleum production dominate the private sector. Kirtland Community College is also located in the county.

Land cover data for Roscommon County and its municipalities were tabulated from the Michigan Resource Information System (MIRIS). The major land cover types for the county as a whole are:

➤ Forested	70%
➤ Water	10%
➤ Wetlands	10%
➤ Open	4%
➤ Agriculture	1%
➤ Urban	5%

## DATA BASE

### **SOLID WASTE MANAGEMENT ALTERNATIVES** (attach additional pages as necessary)

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 following alternative systems were discussed and evaluated by the County Solid Waste Management Planning Committee (SWMPC):

#### **Alternative A: Retain the Current Management System**

Alternative A represents the “status quo” alternative and is always an option. This assumes the continuation of the current management system (i.e., continued use of the out-of-county landfills) without any major changes. Recycling and composting would be continued as they are currently practiced, without any major expansion efforts.

##### Advantages:

- Acceptance of current system
- New costs would be minimal
- No new sites or facilities required
- No major institutional or administrative changes

##### Disadvantages:

- Lack of efforts to improve management system or services to public
- No mechanism to increase materials recovery beyond current levels
- No mechanisms to increase awareness and involvement by government and citizens.

#### **Alternative B: Existing Landfills with Enhanced Recycling & Composting.**

Under this option, use of the present landfills outside the county for disposal would be continued. However, attention would focus on the expansion of recycling and composting opportunities within the county.

Under the present system, recycling and composting efforts are primarily being conducted by the private solid waste industry. Alternative B would call for greater involvement by county and local government in promoting and coordinating materials recovery programs.

##### Advantages:

- Increased levels of materials recovery (recycling & composting)
- Greater public involvement & awareness
- Conservation of landfill space
- Low capital costs — minimal facility requirements

**Disadvantages:**

- Some funding required for program establishment & activities
- Requires change — always some difficulties with acceptance
- Requires greater coordination efforts

**Alternative C: Regional Solid Waste Management System.**

This alternative calls for the creation of a regional solid waste management system in cooperation with several surrounding counties. From an institutional standpoint, this option calls for the creation of a formal solid waste management authority or similar entity.

Under this option, the use of the existing, privately-owned landfills within this group of counties would continue. Due to current disposal capacity, this alternative does not call for the development of a new regional landfill. However, the creation of an authority would give the counties greater ability to control the solid waste stream and to direct it to certain facilities, if necessary.

**Advantages:**

- Regional collection of recyclable materials
- Regional marketing of recyclable materials
- Regional purchasing of recycled products
- Potential regional processing facilities for mixed waste and composting
- Regional franchises for solid waste collection and other services.

**Disadvantages:**

- Political barriers to intergovernmental cooperation
- Higher costs associated with potential regional processing facilities
- Difficulties in siting any new solid waste facilities

**Alternative D: Countywide Solid Waste Authority**

A fourth alternative would involve the formation of a countywide solid waste management authority or similar body. Such an authority might assume responsibility for contracting with the private sector for solid waste collection services on behalf of all the municipalities. To expand the concept, an authority could also take on the responsibility for actually providing solid waste collection and other services, such as collection and marketing of recyclable materials on a countywide basis.

Other components of this alternative might be similar to Alternative B, with an emphasis on enhanced materials recovery activities.

***Advantages:***

- May be able to obtain better price for services through competitive bidding
- May achieve expanded recycling on countywide basis
- Greater coordination & cooperation on solid waste activities

***Disadvantages:***

- Technical & financial resources required to establish & operate an authority.

- High capital & operating costs if authority goes into the solid waste business.
- May be opposition to perceived competition with the private sector.

### **Evaluation of Alternative Solid Waste Management Plans**

The alternatives were evaluated according to the following factors, as specified in Act 451:

**Technical feasibility.** Can the alternative be implemented using available technology, or will the needed technology become available in the near future?

**Economic feasibility.** How much will it cost to implement the alternative? Is the cost greater than the financial capabilities of public and private entities? How will facility development, operation, and maintenance costs be provided?

**Access to Land and Transportation Routes.** Does the alternative require the acquisition of land? Would facilities be efficiently located? Will the existing transportation system be adequate, or will road improvements be required?

**Energy Consumption/Production.** Is the alternative energy-efficient for transportation and operation requirements? Would energy be produced in conjunction with any processing or disposal operations? Would any revenue be generated by energy production?

**Environmental Impacts.** What environmental impacts would result from implementation of the alternative? Would implementation create long-term impacts associated with operation and maintenance of solid waste facilities?

**Public Health Effects.** Would the alternative create, continue, or mitigate public health hazards associated with improper handling or disposal of solid waste?

**Public Acceptability.** Is the alternative likely to be accepted by county residents? Will it be politically acceptable to local governments? Will the alternative comply with all applicable laws, especially Act 451?

### **Evaluation Method**

The three alternatives were evaluated through the use of a numerical ranking system. Using this point system, each committee member assigned a numerical score for each of the evaluation factors for each of the three alternatives. For each evaluation factor, the point values assigned by the members were added together to obtain a raw score for each factor. The points assigned for all the evaluation factors were then added to obtain a total score for each alternative plan. This evaluation process was performed for each alternative plan for both the five-year and ten-year planning periods.

Based on the results of the SWMPC's evaluation process, the preferred alternative is a "hybrid" plan that combines several components from all of the alternatives. Further details on the selected system are provided in the following section.

## THE SELECTED SOLID WASTE MANAGEMENT SYSTEM

The Selected Solid Waste Management System (Selected System) is a comprehensive approach to managing the County's solid waste and recoverable materials. The Selected System addresses the generation, transfer and disposal of the 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 locations 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 A. Following is an overall description of the Selected System:

Roscommon County's current solid waste management system is functioning well, and it provides an effective means of managing the solid waste that is generated within the County. However, this Plan Update also seeks to provide the County and municipalities with a high degree of flexibility for exploring and pursuing system improvements in the future. Therefore, Roscommon County's selected management system combines several aspects of the various alternatives that were considered. An overview of the major components of this system follows.

1. Collection and Transportation of Solid Waste. The existing collection and transportation system will remain in place. Solid waste collection services will continue to be provided to all county residents, businesses, and industries. These services will continue to be provided by private enterprise through municipal contracts with solid waste haulers. However, it is not this plan's intent to preclude involvement by municipalities from providing solid waste collection services to citizens within their respective jurisdictions. In the future, the County and municipalities are encouraged to explore the potential benefits of forming a county or multi-county solid waste authority (or similar entity) for the provision of some solid waste management services.
2. Disposal of Solid Waste. Licensed Type II landfills in Clare, Bay, Montmorency, and Crawford Counties will continue to meet Roscommon County's solid waste disposal needs for the planning period. However, the County and local government units also wish to retain the option of developing a single publicly-owned solid waste disposal facility should such a project prove to be economically feasible and beneficial.

## SELECTED SYSTEM

3. Recycling. Under the selected alternative, the current programs are encouraged to continue their operations. All local governments are encouraged to provide recycling opportunities for their residents, either through arrangements for drop-off sites or the provision of curbside collection for recyclables. The County and local units will also continue to explore the potential for cooperative recycling efforts both within the County and with other surrounding counties. Discussions on potential regional recycling projects are currently being held with Antrim, Crawford, Kankaska, and Otsego Counties.
4. Composting. The plan encourages the continuation of the current municipal composting operations. "Backyard" composting by residents will also continue to be encouraged. All municipalities are encouraged to provide composting opportunities for their residents as needs dictate, either through curbside collection of yard wastes or through local drop-off sites. Again, the plan does not intend to limit the ability of any local government unit to establish a composting site and program. Cooperative arrangements among various government units will be explored under the selected system. Opportunities for regional composting programs in cooperation with surrounding counties will also be investigated.
5. Separation of Household Hazardous Wastes. There is presently no formal hazardous waste collection program in place. The high costs associated with such programs generally preclude the County from directly providing this type of service. The Northern Oaks Recycling and Disposal Facility in Clare County hold an annual Household Hazardous Waste Collection Day at the facility. Roscommon County residents are eligible to participate in this program. However, the County should also work in partnership with the private solid waste industry to explore ways to provide expanded opportunities for separation and collection of household hazardous wastes from residents.
6. Resource Conservation and Waste Reduction. Resource conservation and waste reduction will continue to be encouraged on a voluntary basis by residents, businesses, and industries. The County should investigate ways to expand public information and education in this area.
7. Transfer Facilities. The existing "Type B" transfer facilities will be continued under the selected plan. Additional Type B facilities may be established in the future by local government units, either in cooperation with the private solid waste industry or on their own. Type B facilities may be established under this plan as needed without any further siting review process. Also, a "Type A" transfer facility (one that requires licensing by the DEQ) may also be developed under the selected plan. A Type A facility could be owned and operated publicly, privately, or through some combination. Such a facility may be desirable in the future to make the transfer of solid waste to landfills in other counties more efficient, and it could also serve as a point for collection and separation of recyclable materials. The establishment of a Type A transfer facility will also be consistent with this plan.

SELECTED SYSTEM

**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 <sup>1</sup>	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
<u>Roscommon</u>	<u>None</u>	<u>None</u>			

---

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

<sup>2</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

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**

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/DAILY	AUTHORIZED QUANTITY/ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
<u>Roscommon</u>	<u>Clare</u>	_____	_____	_____	<u>P*</u>
<u>Roscommon</u>	<u>Bay</u>	_____	_____	_____	<u>P*</u>
<u>Roscommon</u>	<u>Crawford</u>	_____	_____	_____	<u>P*</u>
<u>Roscommon</u>	<u>Montmorency</u>	_____	_____	_____	<u>P*</u>
<u>Roscommon</u>	<u>Oscoda</u>	_____	_____	_____	<u>P*</u>
_____	_____	_____	_____	_____	_____

Additional authorizations and the above information for those authorizations are listed on an attached page.

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

<sup>2</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

**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**

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
<u>Roscommon</u>	<u>Clare</u>	<u>Northern Oaks</u>	_____	_____	<u>P</u>
<u>Roscommon</u>	<u>Bay</u>	<u>Whitefeather</u>	_____	_____	<u>P</u>
<u>Roscommon</u>	<u>Crawford</u>	<u>Waters LF</u>	_____	_____	<u>P</u>
<u>Roscommon</u>	<u>Montmorency</u>	<u>Montmorency-Oscoda LF</u>	_____	_____	<u>P</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Additional authorizations and the above information for those authorizations are listed on an attached page.

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

<sup>2</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

If a new solid waste disposal area is constructed and operates 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**

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME <sup>1</sup>	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS <sup>2</sup>
<u>Roscommon</u>	<u>None identified</u>	<u>None planned</u>	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Additional authorizations and the above information for those authorizations are listed on an attached page.

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

<sup>2</sup> Authorization indicated by P = Primary Disposal; C = Contingency Disposal; \* = Other conditions exist and detailed explanation is included in the Attachment Section.

SELECTED SYSTEM

**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 within the County for the next five years and, if possible, the next ten years. Pages III-7-1 through III-7-5 contain descriptions of the solid waste disposal facilities which are located within the County and the disposal facilities located outside of the 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 update is amended to identify additional facilities in other counties outside the 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.

Type II Landfill:

Type A Transfer Facility:

Northern Oaks (Clare County)            None currently -- could be developed under updated plan

Whitefeather (Bay County)

Waters (Crawford County)

Montmorency Oscoda (Montmorency County)

Type B Transfer Facility:

All Sable Township  
Backus Township  
Nester Township

Type III Landfill:

None

Processing Plant:

None

Incinerator:

None

Waste Piles:

None

Waste-to-Energy Incinerator:

None

Other:

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 the County's solid waste are in the AttachmentsSection.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Northern Oaks Recycling & Disposal Facility

County: Clare Location: Town: 19N Range: 4W Section(s): 32

Map identifying location included 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

Operating Status (check)

- open
- closed
- licensed
- unlicensed
- construction permit
- open, but closure
- pending

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other: \_

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

WWTP filter cake, sludge

Site Size:

Total area of facility property: 320 acres  
 Total area sited for use: 76 acres  
 Total area permitted:  
   Operating: 19 acres  
   Not excavated: 57 acres

Current capacity: 8,755,100  tons or  yds<sup>3</sup>  
 Estimated lifetime: 43 years  
 Estimated days open per year: 260 days  
 Estimated yearly disposal volume: 409,000  tons or  yds<sup>3</sup>

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Whitefeather Development Company

County: Bay Location: Town: 17N Range: 4E Section(s): 2

Map identifying location included 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: Republic Services

Operating Status (check)

- open
- closed
- licensed
- unlicensed
- construction permit
- open, but closure
- pending

Waste Types Received (check all that apply)

- residential
- commercial
- industrial
- construction & demolition
- contaminated soils
- special wastes \*
- other: \_

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

Site Size:

Total area of facility property: 752 acres

Total area sited for use: 106 acres

Total area permitted: 56.5 acres

Operating: 24.5 acres

Not excavated: 32.0 acres

Current capacity: 4,175,153  tons or  yds<sup>3</sup>

Estimated lifetime: 18.8 years

Estimated days open per year: 260 days

Estimated yearly disposal volume: 380,000  tons or  yds<sup>3</sup>

(if applicable)

Annual energy production:

Landfill gas recovery projects: NA megawatts

Waste-to-energy incinerators: NA megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Waters Landfill (City Environmental Services of Waters)

County: Crawford Location: Town: 28N Range: 3E Section(s): 4

Map identifying location included 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

Operating Status (check)

- open
- closed
- licensed
- unlicensed
- construction permit
- open, but closure
- pending

Waste Types Received (check all that apply)

- 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>256</u>	acres
Total area sited for use:	<u>252</u>	acres
Total area permitted:	<u>79</u>	acres
Operating:	<u>9.7</u>	acres
Not excavated:	<u>64.87</u>	acres
Current capacity:	<u>5,700,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>
Estimated lifetime:	<u>20</u>	years
Estimated days open per year:	<u>313</u>	days
Estimated yearly disposal volume:	<u>200,000</u>	<input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds <sup>3</sup>

(if applicable)

Annual energy production:		
Landfill gas recovery projects:	<u>NA</u>	megawatts
Waste-to-energy incinerators:	<u>NA</u>	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill

Facility Name: Montmorency-Oscoda Sanitary Landfill

County: Montmorency Location: Town: 29N Range: 3E Section(s): 6

Map identifying location included in Attachment Section: X 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 :

X Public  Private Owner: Montmorency & Oscoda Counties

Operating Status (check)

- X open
- closed
- X licensed
- unlicensed
- X construction permit
- open, but closure
- pending

Waste Types Received (check all that apply)

- X residential
- X commercial
- X industrial
- X 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: 80 acres  
 Total area sited for use: 80 acres  
 Total area permitted:  
 Operating: 3-4 acres  
 Not excavated: 37-40 acres

Current capacity: 3,500,000  tons or X yds<sup>3</sup>  
 Estimated lifetime: 30 years  
 Estimated days open per year: 310 days  
 Estimated yearly disposal volume: 145,000  tons or X yds<sup>3</sup>

(if applicable)

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

## SELECTED SYSTEM

### **SOLID WASTE 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 existing collection and transportation system, as previously described, will initially remain in place. The various solid waste collection and transportation firms doing business in the county may change due to municipal contracts, mergers, and other factors. Also, this plan does not preclude public (government) entities from providing solid waste management services.





SELECTED SYSTEM

**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.

**See discussion on page III-16.**

- Recycling programs within the County are feasible. Details of existing and planned programs are included on 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:

SELECTED SYSTEM

- 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 programs because of the following:

**See discussion on page III-16**

- 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:

It is not presently feasible for Roscommon County or the municipalities within the County to conduct such programs due to the high costs involved. Residents are encouraged to participate in the annual Household Hazardous Waste Collection Day at the Northern Oaks Landfill in Clare County. Also, the updated plan calls for the County to work with the private sector to explore opportunities for providing these services in Roscommon County in the future.

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, Tables III-1, III-2, & III-3 list the existing recycling, composting, and source separation of hazardous materials programs that are currently active in the County and which will be continued as part of this Plan. Tables III-4, III-5, & III-6 then list the recycling, composting, and source separation of hazardous materials programs that are proposed in the future for the County. It is not this Plan update's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

The following major public recycling programs are currently in operation in the County:

1. Roscommon-Higgins-Gerrish Recycling Center. This drop-off facility is located in the Roscommon Industrial Park. It serves Higgins and Gerrish Townships, and the Village of Roscommon.
2. Denton Township Recycling & Composting. This drop-off facility is owned and operated by Denton Township.
3. Roscommon Township curbside recycling program.

There are also several municipal composting programs in operation. These are:

1. Roscommon-Higgins-Gerrish. This is a drop-off site that involves the same communities listed above for recycling.
2. Denton Township. Drop-off site.
3. Roscommon Township. Drop-off site.
4. Richfield Township. Curbside collection program.
5. Markey Township. Curbside program.
6. Gerrish Township. Curbside program.
7. Higgins Township. Curbside program.

SELECTED SYSTEM

TABLE III-1

RECYCLING:

<u>Program Name</u>	<u>Service Area</u> <sup>1</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>3</sup>	<u>Collection Frequency</u> <sup>4</sup>	<u>Materials Collected</u> <sup>5</sup>	<u>Program Management Development</u>	<u>Responsibilities Operation</u>	<u>Evaluation</u>
Roscommon-Higgins-Gerrish Recycling Center	Roscommon Village, Higgins & Gerrish Twps.	Public	d	3 days/wk	ABCDEF	Committee	Twp _____	Committee
Roscommon Twp. Recycling	Roscommon Twp.	Public	c	2/month	ABCDEF	Twp	Twp	Twp
Denton Twp. Recycling & Composting	Denton Twp.	Public	d	3 days/wk	ABCDEFK	Twp	Twp	Twp
Markey Twp.	Markey Twp.	Public	d	1 day/mo	ABCDEF	Twp	Twp	Twp

Additional programs and the above information for those programs are listed on an attached page.

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

<sup>2</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 23); 5 = Private Owner/Operator; 6 = Other (Identified on page 23).

<sup>3</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>4</sup> 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.

<sup>5</sup> Identified by the materials collected by listing of the letter located by that 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. = as identified on page 24.

SELECTED SYSTEM

TABLE III-2

COMPOSTING:

<u>Program Name</u>	<u>Service Area</u> <sup>1</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>3</sup>	<u>Collection Frequency</u> <sup>4</sup>	<u>Materials Collected</u> <sup>5</sup>	<u>Program Management Development</u>	<u>Responsibilities Operation</u>	<u>Responsibilities Evaluation</u>
Roscommon-Higgins- -Gerrish Composting	Roscommon Village, Higgins & Gerrish Twps	Public	d	3 days/wk	G L W	Committee	Village	Committee
Roscommon Twp Composting	Roscommon Twp.	Public	d	3 days/wk	G L W	Twp	Twp	Twp
Denton Twp	Denton Twp.	Public	d	3 days/wk	G L W	Twp	Twp	Twp
Richfield Twp	Richfield Twp	Public	c		G L	Twp	Twp	Twp
Markey Twp	Markey Twp	Public	c	3/yr	G L	Twp	Twp	Twp
Lyon Twp	Lyon Twp	Public	c	3/yr	G L	Twp	Twp	Twp
Gerrish Twp	Gerrish Twp	Public	c	2/mo Apr-Nov	G L	Twp	Twp	Twp
Higgins Twp	Higgins Twp	Public	c	1/yr	G L	Twp	Twp	Twp

Additional programs and the above information for those programs are listed on an attached page.

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

<sup>2</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 23); 5 = Private Owner/Operator; 6 = Other (Identified on page 23).

<sup>3</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>4</sup> 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.

<sup>5</sup> Identified by the materials collected by listing of the letter located by that material type. G = Grass Clippings; L = Leaves; F = Food; W = Wood; P = Paper; S = Municipal Sewage Sludge; A = Animal Waste/Bedding; M = Municipal Solid Waste; L1, L2 etc. = as identified on page 24.

TABLE III-3

SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

Since improper disposal of nonregulated 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.

<u>Program Name</u>	<u>Service Area</u> <sup>1</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>3</sup>	<u>Collection Frequency</u> <sup>4</sup>	<u>Materials Collected</u> <sup>5</sup>	<u>Program Management Responsibilities</u> <sup>2</sup>		
						<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
NONE								

Additional programs and the above information for those programs are listed on an attached page.

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

<sup>2</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 23); 5 = Private Owner/Operator; 6 = Other (Identified on page 23).

<sup>3</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>4</sup> 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.

<sup>5</sup> 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 Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

TABLE III-4

PROPOSED RECYCLING:

<u>Program Name</u> (if known)	<u>Service Area</u> <sup>1</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>3</sup>	<u>Collection Frequency</u> <sup>4</sup>	<u>Materials Collected</u> <sup>5</sup>	<u>Program Management Responsibilities</u> <sup>2</sup>		
						<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
No new programs proposed		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____

Additional programs and the above information for those programs are listed on an attached page.

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

<sup>2</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 23); 5 = Private Owner/Operator; 6 = Other (Identified on page 23).

<sup>3</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>4</sup> 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.

<sup>5</sup> Identified by the materials collected by listing of the letter located by that 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. = as identified on page 24.



TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

<u>Program Name</u> (if known)	<u>Service Area</u> <sup>1</sup>	<u>Public or Private</u>	<u>Collection Point</u> <sup>3</sup>	<u>Collection Frequency</u> <sup>4</sup>	<u>Materials Collected</u> <sup>5</sup>	<u>Program Management Responsibilities</u> <sup>2</sup>		
						<u>Development</u>	<u>Operation</u>	<u>Evaluation</u>
NONE		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____
		_____	_____	_____	_____	_____	_____	_____

Additional programs and the above information for those programs are listed on an attached page.

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

<sup>2</sup> Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 23); 5 = Private Owner/Operator; 6 = Other (Identified on page 23).

<sup>3</sup> Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

<sup>4</sup> 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.

<sup>5</sup> 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 Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

SELECTED SYSTEM

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.

Environmental Groups:

None identified with management responsibilities.

Other:

The County Solid Waste Management Advisory Board will be responsible for educational & promotional activities for resource recovery (recycling & composting) programs. The private solid waste management industry and the municipalities within the county for furnishing recycling & composting options to county residents, businesses, and industries.

SELECTED SYSTEM

**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.

<u>Collected Material:</u>	<u>Projected Annual Tons Diverted:</u>			<u>Collected Material:</u>	<u>Projected Annual Tons Diverted:</u>		
	Current	5th Yr	10th Yr		Current	5th Yr	10th Yr
A. TOTAL PLASTICS:	<u>31</u>	<u>34</u>	<u>38</u>	G. GRASS AND LEAVES:	<u>3,675</u>	<u>4,594</u>	<u>5,742</u>
B. NEWSPAPER:	<u>268</u>	<u>295</u>	<u>324</u>	H. TOTAL WOOD WASTE:	_____	_____	
C. CORRUGATED CONTAINERS:	<u>35</u>	<u>39</u>	<u>42</u>	I. CONSTRUCTION AND DEMOLITION:	_____	_____	
D. TOTAL OTHER PAPER:	<u>70</u>	<u>77</u>	<u>85</u>	J. FOOD AND FOOD PROCESSING:	_____	_____	
E. TOTAL GLASS:	<u>112</u>	<u>123</u>	<u>136</u>	K. TIRES:	<u>9.5</u>	<u>10.5</u>	<u>11.5</u>
F. OTHER MATERIALS:				L. TOTAL METALS:	<u>68</u>	<u>75</u>	<u>82</u>
F1.							
F3.	_____	_____					
F2.	_____	_____	_____	F4.	_____	_____	

**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.

<u>Collected Material:</u>	<u>In-State Markets</u>	<u>Out-of-State Markets</u>	<u>Collected Material</u>	<u>In-State Markets</u>	<u>Out-of-State Markets</u>
A. TOTAL PLASTICS:	<u>100%</u>	_____	G. GRASS AND LEAVES:	_____	
B. NEWSPAPER:	<u>100%</u>	_____	H. TOTAL WOOD WASTE:	_____	
C. CORRUGATED CONTAINERS:	<u>100%</u>	_____	I. CONSTRUCTION AND DEMOLITION:	_____	
D. TOTAL OTHER PAPER:	<u>100%</u>	_____	J. FOOD AND FOOD PROCESSING	_____	
E. TOTAL GLASS:	<u>100%</u>	_____	K. TIRES:	_____	
F. OTHER MATERIALS:			L. TOTAL METALS:		
F1.	_____	_____	F3.	<u>100%</u>	
F2.	_____	_____	F4.	_____	

SELECTED SYSTEM

**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 listing of the programs offered or proposed to be offered in this County.

<u>Program Topic</u> <sup>1</sup>	<u>Delivery Medium</u> <sup>2</sup>	<u>Targeted Audience</u> <sup>3</sup>	<u>Program Provider</u> <sup>4</sup>
<u>1, 2, 3, 4, 5</u>	classroom	<u>s (primary)</u>	Recycling Coordinator
<u>1, 2, 3, 4, 5</u>	<u>phone contact</u>	<u>p</u>	<u>Recycling Coordinator</u>

County Recycling Coordinator is an employee of USDA Conservation District. County Board makes annual appropriation for recycling education activities. Coordinator makes presentations on request and provides resource recovery information and referrals through phone contact with the public.

<sup>1</sup> Identified by 1 = recycling; 2 = composting; 3 = household hazardous waste; 4 = resource conservation; 5 = volume reduction; 6 = other which is explained.

<sup>2</sup> 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.

<sup>3</sup> 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.

<sup>4</sup> 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.

Additional efforts and the above information for those efforts are listed in Appendix E.

SELECTED SYSTEM

**TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION**

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.

TABLE III-7

Management Components	Timeline
Resource Conservation & Waste Reduction	Ongoing
Collection & transportation	Ongoing
Recycling	Ongoing
Composting	Ongoing
Landfilling	Ongoing
Recycling Education	Ongoing
Alternative institutional structures (authority or other entity)	Initiate late 1999; ongoing thereafter

## SELECTED SYSTEM

### **SITING REVIEW PROCEDURES**

#### AUTHORIZED DISPOSAL AREA TYPES

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

#### SITING CRITERIA AND PROCESS

The following process describes the criteria and procedures to be used to site solid waste disposal facilities and determine consistency with this Plan. (attach additional pages if necessary)

Roscommon County has well over 10 years of disposal capacity at various facilities identified in this plan. Therefore, a siting process for new facilities is not required. Any new facility proposed in the County must meet all state law requirements, particularly Act 451.

If the proposed facility is a sanitary landfill and the County has 66 months or more of disposal capacity remaining for all solid waste generated in the County, the County may, at its discretion, refuse to allow the facility to be sited. Remaining disposal capacity shall be determined by the County Solid Waste Management Advisory Board (SWMAB) by using the solid waste generation data contained in this plan and the capacity calculations on page IV-1. Furthermore, the SWMAB shall verify the capacity remaining at each of the disposal facilities authorized in this plan at the time an application is received.

Under the updated plan, the County and its municipalities intend to retain the option of developing a publicly owned disposal facility, should such a facility be in the County's best interest.

[Return to  
Letter](#)

SELECTED SYSTEM

**SOLID WASTE MANAGEMENT COMPONENTS<sup>1</sup>**

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.

SEE THE ATTACHED PAGES

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<sup>1</sup> Components or subcomponents may be added to this table.

## **Existing Management Capabilities**

### **A. Ongoing Planning, Coordination, and Plan Implementation**

Countywide solid waste management planning and coordination is an ongoing process. Act 451 requires that the Solid Waste Plan is updated every five years and that plan implementation must be ensured through the assignment of management responsibilities.

The East Central Michigan Planning and Development Regional Commission (ECMPDR) has been assigned the responsibility of overseeing the plan update. ECMPDR, as the designated solid waste management planning agency, has coordinated the plan update process with the Solid Waste Management Planning Committee.

Coordination and cooperation among the municipalities in Roscommon County, and between the public and private sectors are major elements of successful plan implementation. The Solid Waste Management Planning Committee has outlined a way to achieve this coordination. However, the duties of this committee are officially completed once the updated plan receives final approval. No other existing organization is available to serve this function.

### **B. Collection and Transportation of Solid Waste**

The private solid waste management industry currently provides solid waste collection and transportation services to all parts of Roscommon County, either through municipal contracts or individual subscriptions with homes and businesses. No public agency in the county presently operates a solid waste collection and transportation system. The private sector can continue to provide these services economically and efficiently as long as disposal facilities are available within a reasonable distance.

### **C. Construction, Operation, and Maintenance of Solid Waste Facilities**

With the exception of Type B transfer facilities, the construction and operation of solid waste facilities in compliance with Act 451 is a costly undertaking that cannot typically be accomplished by a single rural municipality. Rural municipalities, such as townships, have the financial capabilities to develop Type B transfer facilities. However, the operation and maintenance of these facilities is most typically performed by the private solid waste industry.

There is currently no county agency with the administrative and technical capabilities to operate a solid waste disposal facility. The County Board of Public Works has the legal authority to own and operate a solid waste facility in accordance with this plan and applicable laws. However, the County Board of Public Works is not currently authorized to take on this responsibility.

The private sector has the capabilities to construct and operate a solid waste disposal facility. However, there are presently no formal plans or agreements to develop or operate new disposal facilities in Roscommon County.

#### **D. Financial Capabilities**

The municipalities and residents of Roscommon County have the capability to finance the collection and transportation of solid waste by entering into contracts with private haulers. Roscommon County is currently the only public agency with the capability to construct and operate a solid waste disposal facility, such as a sanitary landfill. The construction of a disposal facility is a costly undertaking that cannot typically be financed by an individual rural municipality. However, a solid waste authority or similar entity composed of several municipalities within the county or several neighboring counties might also have the capabilities to construct and operate a solid waste disposal facility.

#### **E. Regulation and Enforcement**

Regulations for construction and operation of solid waste facilities are defined by state legislation, particularly Act 451. The Michigan Department of Environmental Quality is the enforcement body for compliance with Act 451 within the county. For specific enforcement of the various provisions of the County Solid Waste Management Plan, the Roscommon County Board of Commissioners is empowered to identify violations of this plan and to bring suit against violators as required.

### **Recommended Management System**

The updated plan recommends the establishment of a single advisory body at the county level to oversee plan implementation, in coordination with the County Board of Commissioners. This body would address various tasks and make recommendations within the areas specified in the plan. The advisory body will represent the same groups as specified for planning committees in Act 451. However, to distinguish the role of the advisory board from that of the planning committee, the body will be called the Roscommon County Solid Waste Management Advisory Board (SWMAB). The Advisory Board should be appointed by the County Board of Commissioners within three months after DEQ approval of this plan update.

The Advisory Board may require staff assistance to carry out its duties, and the county may assign staff for this purpose. Alternatively, the county may contract with the regional solid waste planning agency (the current DPA) or other qualified personnel to assist the SWMAB as needed.

Other entities with management responsibilities for carrying out the plan's various provisions are identified on the following pages.

SELECTED SYSTEM

**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 – All citizens, businesses, and industries. Educational & promotional efforts led by Recycling Committee.

Product Reuse - All citizens, businesses, and industries. Educational & promotional efforts led by Recycling Committee.

Reduced Material Volume - All citizens, businesses, and industries. Educational & promotional efforts led by Recycling Committee.

Increased Product Lifetime - All citizens, businesses, and industries. Educational & promotional efforts led by Recycling Committee.

Decreased Consumption - All citizens, businesses, and industries. Educational & promotional efforts led by Recycling Committee.

**Resource Recovery Programs:**

Composting – Private solid waste industry, municipalities, residents.

Recycling – Recycling Committee (promotion & education), municipalities, businesses, industries, residents, private solid waste industry.

Energy Production – Not included in plan.

**Volume Reduction Techniques:** Private solid waste industry (collection, disposal, & recycling operations). Public sector (recycling & composting operations). Also residents, businesses, and industries through voluntary efforts.

SELECTED SYSTEM

**Collection Processes:** Private solid waste industry & municipalities.

**Transportation:** Private solid waste industry and public sector.

**Disposal Areas:**

Processing Plants –Not included in plan

Incineration –Not included in plan

Transfer Stations – Type B: private solid waste industry & municipalities. Type A: private solid waste industry or public sector.

Sanitary Landfills – Private solid waste industry and public sector.

**Ultimate Disposal Area Uses:** Disposal area owners/operators (public & private) with input from host municipalities.

**Local Responsibility for Plan Update Monitoring & Enforcement:** SWMAB (plan implementation monitoring); County Board of Commissioners (plan enforcement); Michigan DEQ (Act 451 enforcement).

**Educational and Informational Programs:** Recycling Coordinator & Recycling Committee

Documentation of acceptance of responsibilities is contained in Appendix D.

SELECTED SYSTEM

**LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL**

This Plan update'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 the manner in which they will be applied described.

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:

D. Geographic area/Unit of government:

Type of disposal area affected:

Ordinance or other legal basis:

Requirement/restriction:

E. 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.

Regulations concerning the following topics may be adopted by the County and all local government units.

Additional listings are on attached pages.

1. Solid waste facility design elements: greenbelts, landscaping, screening, and fencing.
2. Hours of solid waste facility operation.
3. Control of noise, litter, dust, odors, and pest species at a solid waste facility.
4. Operating records and reports for a solid waste facility.
5. Site security for a solid waste facility.
6. Monitoring of wastes accepted and prohibited at a solid waste facility.
7. Waste disposal surcharges for the operation of a solid waste facility.
8. Local ordinances requiring separation of materials for recycling and composting.
9. Local ordinances that prohibit open burning of yard wastes.

## CAPACITY CERTIFICATIONS

Every County with less than ten years of 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:

### CAPACITY CALCULATIONS

The following summarizes the listed capacity for the various facilities that Gladwin County will use to meet its disposal capacity requirements.

<u>Facility</u>	<u>Capacity (cubic yards)</u>	<u>Life Expectancy</u>
Northern Oaks (Clare County)	8,755,100	43 years
Whitefeather (Bay County)	4,175,153	18 years
Waters (Crawford County)	5,700,000	20 years
Montmorency-Oscoda (Montmorency County)	3,500,000	30 years
<b>TOTAL</b>	<b>22,130,253</b>	

Over the next ten years (2000 – 2009), Roscommon County is projected to generate a total volume of 455,000 cubic yards of solid waste. This figure is based on current disposal volumes and projected county growth. The figure has not been adjusted for any additional diversion that may occur due to increases in materials recovery volumes. For final disposal volumes, a compaction ratio of 2:1 has been assumed. On this basis, Roscommon County will require about 228,000 cubic yards of landfill capacity for the next 10 years. This represents about one percent (1%) of the total capacity shown above. All of the listed landfills have included Roscommon County's solid waste generation in their projected disposal volumes and life expectancies.

Based on the listed capacity available at the three landfills shown above, Roscommon County has access to sufficient disposal capacity for over 100 years.

# APPENDIX

ADDITIONAL INFORMATION

REGARDING THE

SELECTED

SYSTEM

**Roscommon County Solid Waste Management Plan Update**

## EVALUATION OF RECYCLING

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

An overview of current recycling programs in Roscommon County has been presented in the “Overview of Resource Recovery Programs” section in the main body of the plan document on page III-17.

As previously described, several communities operate recycling drop-off sites. These sites are available to the public on a part-time basis, ranging from 3 days per week to one day per month. Materials collected include plastics, various grades of paper, glass, metals, and tires.

Several municipal composting programs also operate in the county. These include both drop-off sites and curbside collection programs. The curbside collections generally take place from one to three times per year. However, Gerrish Township operates its collection twice a month during April through November. Composting in Roscommon County also occurs as home composting due to the rural nature of the area.

Resource recovery education efforts are also conducted in Roscommon County. The County funds a Recycling Coordinator position and a Recycling Committee with the main objective of conducting educational and promotional activities for recycling.

The current resource recovery programs in Roscommon County are functioning well, and they provide all residents with an opportunity to participate. There are no major obstacles or impediments known to exist at the local level. Participation rates among residents continue to improve. Educational efforts will be continued under the updated plan, and improved as opportunities arise. Negative factors that affect the current recycling programs are the volatility of the markets for recyclable materials, and the present low market prices. However, these factors are beyond the County’s control.

**DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:**

List below the types and volumes of material available for recycling or composting.

A detailed waste stream assessment has never been conducted for Roscommon County. The quantities of various materials that are available for recovery have been estimated based on the solid waste components identified for similar rural areas and current solid waste generation estimates for the County. The following estimates are based on total annual solid waste generation of about 16,766 tons.

<u>Material</u>	<u>% of Waste Stream</u>	<u>Annual Quantity (Tons)</u>
Paper (all types)	15%	2,515
Plastics	9%	1,509
Glass	5%	838
Ferrous metals	7%	1,174
Aluminum	0.8%	134
Yard waste	4%	671

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:

**RECYCLING:** Equipment is currently selected by municipalities and the private solid waste industry as their needs dictate. No major problems have been encountered in the selection of this equipment.

**COMPOSTING:** Current equipment selection is addressed by the private solid waste industry in providing yard waste collection services in various communities. Municipalities that provide some form of yard waste collection generally utilize normal public works equipment such as portable chippers for brush. No specific problems with equipment selection have been reported and no major new equipment needs have been identified.

Proposed Programs:

No new programs or equipment needs have been identified.

## **Site Availability & Selection**

### Existing Programs:

**RECYCLING:** Programs will continue to operate at their existing sites. No specific site needs have been identified. However, any municipality that wishes to establish a recycling drop-off site for use by residents is encouraged to do so.

**COMPOSTING:** No specific site needs have been identified. The municipalities and the private solid waste industry that collect yard waste have made adequate arrangements for composting areas. The private industry sites are usually adjacent to the existing landfill sites. Municipalities that collect yard waste & brush generally utilize vacant publicly-owned sites for placement of material.

### Proposed Programs:

No new programs or siting needs have been identified.

**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.

**These parameters are not monitored at the existing municipal composting operations.**

**Existing Programs:**

<u>Program Name:</u>	<u>pH Range</u>	<u>Heat Range</u>	<u>Other Parameter</u>	<u>Measurement Unit</u>
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

**Proposed Programs:**

<u>Program Name</u>	<u>pH Range</u>	<u>Heat Range</u>	<u>Other Parameter</u>	<u>Measurement Unit</u>
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	
_____	_____	_____	_____	

## **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.

1. The municipalities within Roscommon County may enter into agreements (i.e., contracts) with other entities, both public and private, for solid waste management services, including the collection and transportation of solid waste, recyclable materials, and yard waste.
2. The Roscommon County Board of Commissioners may negotiate written inter-county agreements with the counties specified in the "Import and Export Authorization Tables" (Tables 1A, 1B, 2A, and 2B) in this plan.
3. This updated plan calls for the creation of a Solid Waste Management Advisory Board (SWMAB) to oversee and generally coordinate the implementation of the plan. As such, the SWMAB will work in cooperation with County government, local government units, the private solid waste industry, businesses, industries, institutions, and the general public to facilitate the various actions required to carry out the updated Solid Waste Management Plan.

**COSTS & FUNDING:**

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

<b>System Component<sup>1</sup></b>	<b>Estimated Costs</b>	<b>Potential Funding Sources</b>
<u>Resource Conservation Efforts</u>	Unknown	Voluntary efforts by private enterprise: businesses, industries & institutions
<u>Resource Recovery Programs</u>	Unknown	Private industry, municipalities, customer fees
<u>Volume Reduction Techniques</u>	Unknown	Private enterprise
<u>Collection Processes</u>	Unknown	Private enterprise & customer fees
<u>Transportation</u>	\$1,050,000 annually (1998) for coll. & transp. under municipal contracts	Private enterprise & customer fees
<u>Disposal Areas</u>	Unknown	Private enterprise & customer fees
<u>Future Disposal Area Uses</u>	Unknown	Private enterprise & host counties
<u>Management Arrangements</u>	Unknown — minor cost	Roscommon County Board of Commissioners
<u>Educational &amp; Informational Programs</u>	\$12,000 to \$15,000 annually for recycling education programs	Roscommon County Board of Commissioners

<sup>1</sup> These components and their subcomponents may vary with each system.

## **EVALUATION SUMMARY OF THE 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 selected system is technically and economically feasible. All of the major components, including collection, transportation, disposal, recycling, and composting are proven technologies that are currently in place and have been accepted by the public. The selected plan is essentially a continuation of the current management system.

The following discussion describes the anticipated positive and negative impacts on public health, economics, environmental conditions, siting considerations, existing disposal areas, and energy consumption and production.

### **PUBLIC HEALTH**

The selected plan relies mainly on the available landfills located in other counties for final disposal of solid waste. Landfills that are properly sited, constructed, and operated will have minimal effects on groundwater and the environment.

Recycling and composting may reduce public health impacts by removing materials from the waste stream that would otherwise go to a disposal facility.

The proper collection and transportation of solid waste reduces the potential for negative health impacts.

### **ECONOMICS**

Landfilling is still the most economical method of solid waste disposal. However, landfilling could be costly if a landfill is improperly designed or operated, resulting in surface or groundwater pollution. The selected plan relies on landfills located in surrounding counties that are in full compliance with Act 451 and other applicable laws. Properly designed and operated landfills will minimize the risk of pollution. However, landfilling will also result in the disposal of materials that could be recycled or reused at a lower cost than the manufacture of new materials.

It is this plan's intent that the County may explore and implement all feasible options in the future for financing resource recovery programs, including educational programs. This includes the authority to impose waste disposal surcharges, as recently (October 1998) determined by the Michigan Court of Appeals.

The recycling component of the selected system also has positive economic impacts by generating revenues from the sale of materials. However, these revenues are typically subject to wide market fluctuations, and they are not expected to entirely offset the costs of operation.

Solid waste collection through an open market system provides competitive pricing and economies of scale. Transfer stations can provide cost savings by making collection routes more efficient and reducing the transportation costs incurred by collection vehicles.

#### ENVIRONMENTAL CONDITIONS

The selected system will have minimal environmental impacts because it does not call for the siting of any major new solid waste facilities.

Recycling and composting facilities help to reduce reliance on landfills and, consequently, they also help to reduce the environmental consequences of landfills. However, recycling and composting facilities can also cause nuisance conditions if they are not properly designed and maintained. Also, composting facilities can have odor problems if they are not properly operated.

#### SITING CONSIDERATIONS

The selected system will have minimal impacts on siting because no new facilities are proposed. Landfills are extremely difficult to site because of public opposition and the need to identify an environmentally sound location that will meet all Act 451 requirements. Roscommon County has access to sufficient capacity for the next 10 years and beyond. However, the county and municipalities will retain the option of developing a publicly-owned disposal facility should the need arise.

#### EXISTING DISPOSAL AREAS

The selected plan relies on the existing landfills in Clare, Bay, Crawford, and Montmorency Counties to provide disposal capacity for the next 10 years. These facilities have sufficient capacity provided that they remain open and their costs remain reasonable.

#### ENERGY CONSUMPTION AND PRODUCTION

The selected plan relies on landfills located outside Roscommon County for the disposal of the County's solid waste. The current system results in greater energy consumption than if solid waste only had to be transported to a disposal facility located in Roscommon County.

The transportation of recyclable materials and yard waste also consumes energy. However, materials recovery can also save energy by reusing certain items, or substituting recycled materials for newly manufactured components.

Sanitary landfills represent a loss of energy resources due to the burial of materials that could be otherwise recovered and utilized. However, methane gas can be recovered from landfills which is

then used as an energy source. No methane recovery currently takes place at the landfills identified in this plan, although methane recovery could take place in the future.

**ADVANTAGES AND DISADVANTAGES OF THE 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. Major components already in place.
2. System is accepted by the public.
3. Minimal costs.
4. No new sites or facilities required immediately.
5. No major institutional changes required immediately.
6. Plan provides flexibility to explore countywide & regional recycling options.
7. Plan provides flexibility to develop publicly-owned disposal facility if needed.

**DISADVANTAGES:**

1. Currently no strong incentive to increase materials recovery much beyond current levels.
2. If regional materials recovery is pursued, there are obstacles to achieving political and public support and consensus.

## NON-SELECTED SYSTEMS

Before selecting the solid waste management system contained within this Plan update, 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. Complete one evaluation summary for each non-selected alternative system.

It is important to note that none of the following alternatives were completely rejected. Instead, the Planning Committee drew from each of the alternative systems to formulate a hybrid system that combines components from each option.

### ALTERNATIVE B: ENHANCED MATERIALS RECOVERY

Under this option, use of the present landfill as the primary means of disposal would continue. However, attention would focus on the expansion of recycling and composting opportunities within the County.

### ALTERNATIVE C: REGIONAL SOLID WASTE MANAGEMENT SYSTEM

This alternative called for the creation of a regional solid waste management system in cooperation with several surrounding counties. This option would involve the creation of a formal solid waste management authority or similar entity.

### ALTERNATIVE D: COUNTYWIDE AUTHORITY

This alternative called for the formation of a countywide solid waste management authority or similar entity. Such an authority might assume the responsibility for contracting for solid waste collection services on behalf of the county municipalities. An authority could also take on the responsibility for directly providing solid waste collection and other services, such as collection and marketing of recyclable materials. This alternative is very similar to Alternative C and, consequently, it has been evaluated along with Alternative C in the following discussion.

## NON-SELECTED SYSTEMS

### **Alternative B**

#### **SYSTEM COMPONENTS:**

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

#### **RESOURCE CONSERVATION EFFORTS:**

Voluntary measures by consumers, businesses, and industries.

#### **VOLUME REDUCTION TECHNIQUES:**

Use of volume reduction equipment by private solid waste industry & materials recovery programs: compactors, balers, shredders.

#### **RESOURCE RECOVERY PROGRAMS:**

1. Expanded curbside recycling in municipalities
2. Yard waste collection by private industry & municipalities.
3. Home composting by residents.

#### **COLLECTION PROCESSES:**

Collection mainly by private solid waste industry under municipal contracts & individual subscriptions.

#### **TRANSPORTATION:**

Transportation mainly by private solid waste industry.

#### **DISPOSAL AREAS:**

Landfills located outside of Roscommon County

#### **INSTITUTIONAL ARRANGEMENTS:**

1. Arrangements for solid waste collection & transportation under municipal contracts and individual subscriptions with residents & businesses.
2. Inter-county agreements between Roscommon County and counties where available landfills are located.

#### **EDUCATIONAL AND INFORMATIONAL PROGRAMS:**

Countywide education programs conducted by County Recycling Coordinator & Committee.

## NON-SELECTED SYSTEMS

### **CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:**

Specific costs are unknown. Operating costs would be greater than the existing system due to cost for increased collection and transportation of recyclable materials.

### **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.

The technical and economic feasibility of implementing this alternative (enhanced materials recovery) were judged to be less desirable than the selected system. Also, this alternative would consume more energy due to expanded collection and transportation of recyclable materials.

Also, opportunities for materials recovery are widely available under the selected system. There is no documented demand for additional services in this regard. Under the selected system, local governments are free to establish resource recovery programs in any manner they feel best suits the needs of their residents. This arrangement was judged to be preferable to mandating recovery programs under Alternative B.

NON-SELECTED SYSTEMS

**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:

1. Increased levels of materials recovery
2. Greater conservation of landfill space through diversion.
3. Low capital costs due to minimal facility requirements.

DISADVANTAGES:

1. Higher operating costs for expanded collection & transportation of recyclable materials
2. Municipalities would need to accept expanded responsibilities for contracting for solid waste services.
3. Municipalities & residents would need to accept higher costs for expanded recycling collection, either curbside or through establishment of additional drop-off sites.

NON-SELECTED SYSTEMS

**Alternatives C & D**

**SYSTEM COMPONENTS:**

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

**RESOURCE CONSERVATION EFFORTS:**

Voluntary measures by consumers, businesses, and industries.

**VOLUME REDUCTION TECHNIQUES:**

Use of volume reduction equipment by private solid waste industry & materials recovery programs: compactors, balers, shredders.

**RESOURCE RECOVERY PROGRAMS:**

1. Potential development of regional MRF and composting facility.
2. Regional marketing of recyclable materials and compost

**COLLECTION PROCESSES:**

Collection mainly by private solid waste industry under contracts with regional solid waste authority or similar entity.

**TRANSPORTATION:**

Transportation mainly by private solid waste industry.

**DISPOSAL AREAS:**

Landfills located in other counties

**INSTITUTIONAL ARRANGEMENTS:**

1. Establishment of formal multi-county or countywide solid waste management authority or similar entity.
2. Agreements between authority & counties or municipalities for solid waste services.
3. Agreements between municipalities and counties and/or directly with authority for solid waste services.
4. Agreements between authority and private solid waste industry for collection, transportation, and other solid waste services.

## NON-SELECTED SYSTEMS

### **EDUCATIONAL AND INFORMATIONAL PROGRAMS:**

Programs carried out by multi-county authority

### **CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:**

1. High initial start-up costs for establishment of authority; administration & staffing.
2. Potential high capital costs for regional materials recovery & composting facilities.

### **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.

#### **ALTERNATIVES C & D**

Again, the evaluation of this alternative was similar to the selected system in many respects. However, there were also some significant differences. The following discussion describes the positive and negative impacts on public health, economics, environmental conditions, siting considerations, existing disposal areas, and energy consumption and production, as they differ from the selected system:

1. This alternative would be expected to have somewhat greater public health benefits than the selected system by further reducing reliance on landfills through a higher level of materials recovery. Proper collection of solid waste would be better served by contracting for collection services on a regional basis.
2. This option would generate greater revenues from recycled materials by collecting a larger quantity of materials. Also, it may be possible to achieve cost savings on solid waste services by obtaining competitive bids on a regional basis. However, higher costs would be associated with the initial formation of an authority, and with the development of regional resource recovery facilities. Feasibility studies would need to be conducted for such facilities, and their proposed capital and operating costs are not presently known.
3. Like the selected system, no new disposal areas would need to be sited under this alternative. The existing landfills that presently serve the counties participating in the authority would continue to be used. However, as previously noted, large-scale regional materials recovery and waste processing facilities are considered to be part of this alternative. Such facilities could face public opposition and be difficult to site.
4. Energy would also be consumed under this alternative to collect and transport solid waste,

#### NON-SELECTED SYSTEMS

recyclable materials, and yard waste. However, there would presumably be greater energy savings through a greater level of materials recovery. Depending on the locations of materials recovery and processing facilities, there may be greater fuel consumption to transport materials than under the selected system.

Alternatives C and D were not selected as the county's primary management systems for the following major reasons:

1. A major potential problem associated with the alternative is the complexity of creating a regional solid waste authority. There will need to be strong support for this concept. Local governments might perceive the creation of a solid waste authority as a loss of home rule authority. Also, the formation of an authority might be perceived as creating another level of government ("bureaucracy") and would meet with public opposition. The private solid waste industry would probably also oppose the formation of an authority as excessively restrictive or unfairly competitive. Without strong support by elected officials, the public, and private industry, a proposed solid waste authority will not succeed.
2. There are numerous technical, economic, and political uncertainties to make a regional system possible to implement immediately. However, the concept does hold potential, and it should be explored further as the updated solid waste management plan is 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:

1. Economies of scale through regional or countywide collection & marketing of recyclable materials.
2. Economies of scale through regional or countywide purchasing of recycled products.
3. Potential cost savings through regional or countywide contracts for solid waste services.

##### DISADVANTAGES:

1. Political barriers to establishing solid waste authority.
2. Higher costs for regional processing facilities.
3. Public opposition to siting any new solid waste facilities.

## 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.

Several mechanisms were used to encourage involvement by local governments and the public in the Solid Waste Management Plan update process. These are summarized below:

1. Time for public comment was reserved on the agenda for each meeting of the Planning Committee.
2. Notices of each Planning Committee meeting were distributed to all municipalities in the County in advance of each meeting.
3. A general notice was published as required that announced the general availability of the draft plan when it was released for public review for a three-month period.
4. The draft plan was distributed to all municipalities in the County and adjacent counties for review.
5. A general notice announcing the public hearing on the draft plan was published at least 30 days prior to the hearing.
6. A public hearing was held on the draft plan to provide all interested persons an opportunity to voice questions or concerns regarding the updated plan.

## PUBLIC PARTICIPATION

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 public involvement process is described on the preceding page. The Solid Waste Management Planning Committee met on the following dates:

October 21, 1998  
November 19, 1998  
January 17, 1999  
February 21, 1999  
April 18, 1999  
May 27, 1999  
June 27, 1999  
July 29, 1999  
September 30, 1999  
December 2, 1999  
February 3, 2000.

### PLAN APPROVALS:

The updated County Solid Waste Management Plan was approved by the County Solid Waste Management Planning Committee on February 3, 2000.

The updated Solid Waste Management Plan was approved by the Roscommon County Board of Commissioners on February 10, 2000.

The updated Solid Waste Management Plan was submitted to the municipalities within Roscommon County on February 10, 2000.

The updated Solid Waste Management Plan was approved by 67% of the municipalities in the County on September 13, 2000.

The updated Solid Waste Management Plan was submitted to the Michigan Department of Environmental Quality on December 21, 2000.

The updated Solid Waste Management Plan was approved by the Michigan Department of Environmental Quality on \_\_\_\_\_, 2000.

## PUBLIC PARTICIPATION

### **PLANNING COMMITTEE APPOINTMENT PROCEDURE:**

The County Board of Commissioners developed a list of potential candidates for the Planning Committee, including some individuals who had been involved in the preparation of the County's previous Solid Waste Plan under Act 641. After reviewing the list of candidates, the County Board appointed the 14 member Planning Committee in October 1998. Additional appointments were made as necessary over the course of the plan update to fill vacancies.

## PUBLIC PARTICIPATION

### 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. Richard Leszcz, Waste Management
2. Wayne Follenius, Waste Management
3. Fred Still, Superb Disposal
4. Lyle Canfield, G & L Roll Off Service

One representative from an industrial waste generator:

1. Eric Weber, Lear Corporation

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

1. Kristine Mol, Roscommon County Recycling Committee
2. Ned Wickes, Higgins Lake Foundation

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

1. Sheridan Cole, Roscommon County Drain Commissioner (County Board Designee)

One representative from township government:

1. Diane Randall, Roscommon Township Supervisor

One representative from city government:

1. Michael Mitchell, Village of Roscommon Manager (Village Council designee)

One representative from the regional solid waste planning agency:

1. Sue Fortune, East Central Michigan Planning & Development Regional Commission

Three representatives from the general public who reside within the County:

1. Richard Pastula
2. Brett Yardley
3. Jim Clendening

# ROSCOMMON COUNTY BOARD OF COMMISSIONERS



112 S. Fourth Street, Suite C  
P.O. Box 776  
Roscommon, MI 48653

Phone: (517) 275-8021  
FAX: (517) 275-5675  
E-mail: [commissioners@voyager.net](mailto:commissioners@voyager.net)

February 7, 2001

DEQ - WMD  
Mr. Stan Idziak  
P.O. Box 30241  
Lansing, MI 48909-7741

RE: ROSCOMMON COUNTY SOLID WASTE PLAN UPDATE

Dear Mr. Idziak:

We are sending you the following information:

1. Roscommon County Herald-News Proof of Publication
2. Houghton Lake Resorter Proof of Publication
3. September 30, 1999 Solid Waste Committee Agenda for Public Hearing
4. February 3, 2000 Solid Waste Committee Agenda
5. February 3, 2000 Solid Waste Committee Minutes
6. Excerpt from the Roscommon County Board of Commissioners February 10, 2000 Minutes

This should complete the information you need to complete your work on our Solid Waste Plan. However, if I may be of further assistance to you, please feel free to call me at (517) 275-8021.

Very truly yours,

Mrs. Joyce E. Morris  
Executive Secretary  
ROSCOMMON COUNTY  
BOARD OF COMMISSIONERS

cc: Doug Bell

# ROSCOMMON COUNTY BOARD OF COMMISSIONERS



112 S. Fourth Street, Suite C  
P.O. Box 776  
Roscommon, MI 48653

Phone: (517) 275-8021  
FAX: (517) 275-5675  
E-mail: [commissioners@voyager.net](mailto:commissioners@voyager.net)

February 7, 2001

VIA FACSIMILE

Mr. Stan Idziak  
DEPARTMENT OF ENVIRONMENTAL QUALITY

RE: ROSCOMMON COUNTY SOLID WASTE PLAN UPDATE

Dear Mr. Idziak:

We are sending you the following information:

1. Roscommon County Herald-News Proof of Publication
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Very truly yours,

Mrs. Joyce E. Morris  
Executive Secretary  
ROSCOMMON COUNTY  
BOARD OF COMMISSIONERS

cc: Doug Bell

DISTRICT #1  
Carl L. Geiger, Chairman  
[carlgeiger@roscommoncounty.net](mailto:carlgeiger@roscommoncounty.net)

DISTRICT #2  
Larry D. Mead  
[larrymead@roscommoncounty.net](mailto:larrymead@roscommoncounty.net)

DISTRICT #3  
William R. McCaleb  
[billmccaleb@roscommoncounty.net](mailto:billmccaleb@roscommoncounty.net)

DISTRICT #4  
Marc J. Milburn  
[marcjmilburn@roscommoncounty.net](mailto:marcjmilburn@roscommoncounty.net)

DISTRICT #5  
Roman Pacella, Vice-Chairman  
[romanpacella@roscommoncounty.net](mailto:romanpacella@roscommoncounty.net)

# AFFIDAVIT OF PUBLICATION

STATE OF MICHIGAN, }  
COUNTY OF ROSCOMMON } ss

Robert E. Perlberg, being duly sworn, says: I am the publisher of The Roscommon County Herald-News, a newspaper printed and circulated in said county; that the annexed is a printed copy of a notice which was published in said paper on the following dates, to wit:

## NOTICE OF PUBLIC HEARING ROSCOMMON COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE

The Roscommon County Solid Waste Management Planning Committee will hold a public hearing on the proposed update of the Roscommon County Solid Waste Management Plan. The public hearing will be held as follows:

**Date:** Thursday, September 30, 1999  
Time: 7:00 p.m.  
**Place:** County Board Meeting Room  
County Building Annex  
112 S. Fourth Street  
Roscommon, Michigan 48653

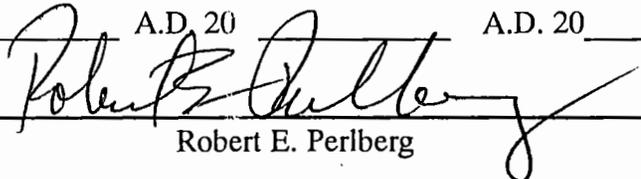
The purpose of the hearing is to accept public comments on the proposed solid Waste Management Plan update. Both written and verbal comments will be accepted at the hearing.

The plan is available for inspection and copying at cost at the Roscommon County Board of Commissioners Office, County Building Annex, 112 S. Fourth Street, Roscommon, Michigan 48653, during regular business hours. The plan has also been sent to each township in the County and the Village of Roscommon.

Written comments on the proposed plan update will be accepted through the close of business on November 15, 1999. Written comments on the draft plan should be sent to the Solid Waste Planning Committee in care of the County Board Office, P.O. Box 776, Roscommon MI 48653. Please submit written comments so that they are received no later than November 15, 1999.

Your views on the updated Roscommon County Solid Waste Management Plan are welcomed and encouraged.

Sept. 5 A.D. ~~XX~~ 1999 A.D. 20

A.D. 20 A.D. 20  
  
Robert E. Perlberg

Subscribed and sworn to before me this 7th

day of September A.D. ~~XX~~ 1999

  
Beth A. Molands

Notary Public, Roscommon County, Michigan  
My commission expires January 23, 2004

2

**Roscommon County Solid Waste Management Plan Update**

The Roscommon County Solid Waste Management Planning Committee will hold a public hearing on the proposed update of the Roscommon County Solid Waste Management Plan. The public hearing will be held as follows:

**Date: Thursday, September 30, 1999**

**Time: 7:00 p.m.**

**Place: County Board Meeting Room**

**County Building Annex**

**112 S. Fourth Street**

**Roscommon, Michigan 48653**

The purpose of the hearing is to accept public comments on the proposed Solid Waste Management Plan update. Both written and verbal comments will be accepted at the hearing.

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Your views on the updated Roscommon County Solid Waste Management Plan are welcomed and encouraged.

**PUBLICATION**

**Resorter  
County  
48**

**Houghton Lake, MI 48629  
517-366-5341**

STATE OF MICHIGAN, }  
County of Roscommon } ss.

.....Jo Ann Jaruzel....., being duly sworn, says, I am the Office Manager.....  
of THE HOUGHTON LAKE RESORTER, a newspaper published and circulated in said County. The  
annexed is a printed copy of a notice which was published in said newspaper on the following dates:  
September 2nd,

A.D. 1999, that he/she is the agent of the printers of said newspaper, and knows well the facts stated herein.

  
Jo Ann Jaruzel

Subscribed and sworn to before me this:

.....2nd..... day of .....September..... A.D. 1999

  
Shirley A. Laginess  
Notary Public, Roscommon County, Michigan

My Commission Expires November 20, 2002.....

**Printer's Bill**

.....7 1/2"..... Folio .....1..... Times; Total Cost \$48.25.....

*Notice of Public Meeting*

**Roscommon County Solid Waste Management  
Planning Committee**

*Date:* Thursday, September 30, 1999

*Time:* 7:00 p.m.

*Place:*

Roscommon County Building Annex  
112 South Fourth Street, Suite C  
Roscommon, Michigan 48653

**Agenda**

1. CALL TO ORDER
2. APPROVAL OF MINUTES
3. APPROVAL OF AGENDA
4. PUBLIC HEARING ON THE DRAFT COUNTY SOLID WASTE  
MANAGEMENT PLAN UPDATE
  - A. Overview of the Solid Waste Plan Update (Doug Bell, ECOMPDR)
  - B. Open Public Hearing
  - C. Review written comments received on the draft plan.
  - D. Accept verbal comments on the draft plan from those in attendance.
  - E. Close public hearing.
5. SET DATE OF NEXT MEETING
6. ADJOURNMENT

***Planning Committee Members: Please note that this meeting has been scheduled for  
7:00 in the evening.***

RECEIVED

SEP 24 1999

posted 10:00  
9/29/99

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*Notice of Public Meeting*

**Roscommon County Solid Waste Management  
Planning Committee**

*Date:* Thursday, February 3, 2000

*Time:* 2:00 p.m.

*Place:*

Roscommon County Building Annex  
112 South Fourth Street, Suite C  
Roscommon, Michigan 48653

**Agenda**

1. Call to Order
2. Approval of Agenda
3. Communications
4. Review Changes to Draft Plan (Revised draft mailed to committee members)
5. Approval of Plan Update & Recommendation to County Board
6. Public Comment
7. Set Date of Next Meeting (if necessary)
8. Adjournment

(5)

ROSCOMMON COUNTY  
SOLID WASTE MANAGEMENT  
PLANNING COMMITTEE  
MINUTES

February 3, 2000

Present: Roy Spangler, Kris Mol, Ned Wickes, Bill McCaleb, Dick Pastula, Doug Bell, Richard Leszcz, Bret Yardley Carl Geiger, Sheridan D. Cole, D. Gene Drader, Ken Carlson, Lyle Canfield, Diane F. Randall, Donna J. Pflum

The meeting was called to order by Carl Geiger at 2:05 p.m.

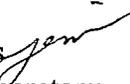
It was determined that a quorum is present.

Doug Bell explained the final changes to the documents and responded to questions about the Plan. The committee by consensus thanked Mr. Bell for the work done on the County 641 Solid Waste Management Plan.

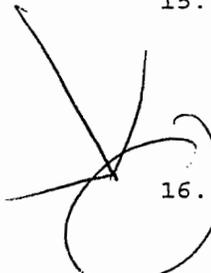
It was moved by Sheridan Cole and seconded by Kris Mol to approve the Plan and bound it to the County Board of Commissioners. Motion passed unanimously.

There being no further business, the meeting was adjourned at 2:55 p.m.

Respectfully Submitted,

Joyce Morris   
Recording Secretary

9. Moved by Ancel, seconded by Pacella to authorize chairman to sign contract with Houghton Lake Chamber of Commerce. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.
10. Moved by Pacella, seconded by Mead to approve the Roscommon Township Association's appointees Joe Faino (Denton Twp.) and Jim Lippert (Gerrish Twp.) to the Central Dispatch Authority Board effective January 1, 2000 til 12/31/02. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.
11. Moved by Pacella, seconded by McCaleb to authorize payment of invoice #35615 to Gosling Czubak for landfill sampling from 11/21/99 through 1/9/00 in the amount of \$443.25. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.
12. Moved by Pacella, seconded by Mead to approve renewal of the two Tower Lease Agreements with WUPS Radio Station at \$250 a month for each Agreement and authorize Chairman to sign same. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.
13. Moved by Mead, seconded by Ancel to approve payment to James Anderson, CPA, for consultation services regarding Gypsy Moth in the amount of \$570.00. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.
14. Moved by McCaleb, seconded by Ancel to authorize chairman to sign the MSHDA Amendment to Grant #MSC-1999-0335-HO to increase the budget amount to \$400,000. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.
15. Moved by McCaleb, seconded by Pacella to authorize payment of \$2,798 to East Central Michigan Planning and Development Regional Commission for the first of two payments on their 2000 appropriation. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.
16. Moved by McCaleb, seconded by Ancel to approve the Roscommon County Solid Waste Management Plan Update and request the Townships and Village to adopt a resolution in favor of the Plan. On roll call: Ayes: Geiger, Mead, McCaleb, Ancel, Pacella. Nays: None. Motion carried.



Roscommon Co. Bd. of Comm.  
Feb. 10, 2000 Minutes

WASTE MANAGEMENT DIVISION

FEB 08 2001

**RECEIVED**

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Richfield  
*(Township/Village)* *(Name of Local Unit)*

has reviewed the updated Solid Waste Plan and its recommendations;

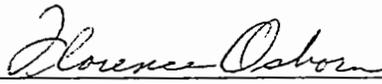
NOW, THEREFORE, BE IT RESOLVED that the Board of this  
*(Board/Council)*

municipality hereby Approves  
*(Approves/Disapproves)*

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Board  
*(Board/Council)*

of Richfield held on March 21, 2000.  
*(Name of Local Unit)* *(Date)*

  
Florence Osborn  
Chief Elected Official

  
Bonnie L. Schmitt  
Clerk

RECEIVED

MAR 27 2000

Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Gerrish  
*(Township/Village)* *(Name of Local Unit)*

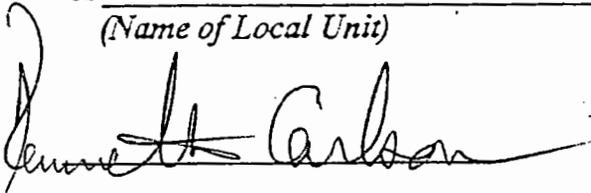
has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board of this  
*(Board/Council)*

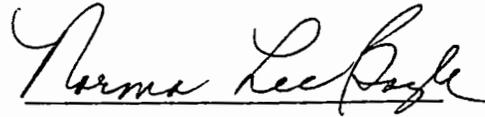
municipality hereby approves  
*(Approves/Disapproves)*

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

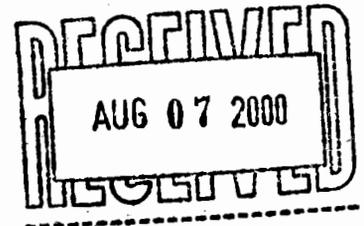
Resolution declared adopted at a regular meeting of the Board  
*(Board/Council)*  
of Gerrish Township held on March 14, 2000.  
*(Name of Local Unit)* *(Date)*



Supervisor



Clerk



RECEIVED  
MAR 23 2000

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Higgins  
*(Township/Village)* *(Name of Local Unit)*

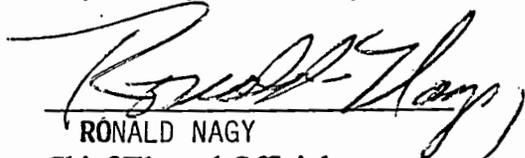
has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board of this  
*(Board/Council)*

municipality hereby Approves  
*(Approves/Disapproves)*

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Board  
*(Board/Council)*  
of Higgins Township held on April 3, 2000.  
*(Name of Local Unit)* *(Date)*

  
RONALD NAGY  
Chief Elected Official

  
TERRY A. MORLEY  
Clerk

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Lake  
(Township/Village) (Name of Local Unit)

has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Lake Twp Board of this  
(Board/Council)

municipality hereby Approves  
(Approves/Disapproves)

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Lake Twp Board  
(Board/Council)  
of Lake Twp/Roscommon Cty held on July 20, 2000.  
(Name of Local Unit) (Date)

Joe Keisley Supervisor

Chief Elected Official

Thomas Plachost

Clerk

RECEIVED

JUL 20 2000

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The TOWNSHIP of AUSABLE  
(Township/Village) (Name of Local Unit)

has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the BOARD of this  
(Board/Council)

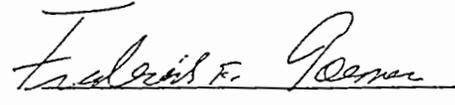
municipality hereby APPROVES  
(Approves/Disapproves)

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the BOARD  
(Board/Council)

of AUSABLE TOWNSHIP held on 06-13, 2000.  
(Name of Local Unit) (Date)

  
Chief Elected Official

  
Clerk

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Lyon  
*(Township/Village)* *(Name of Local Unit)*

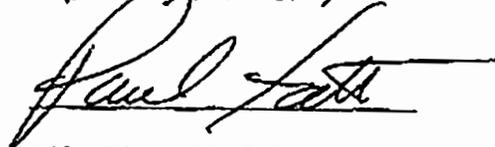
has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board of this  
*(Board/Council)*

municipality hereby Approves  
*(Approves/Disapproves)*

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Board  
*(Board/Council)*  
of Lyon held on April 19, 2000.  
*(Name of Local Unit)* *(Date)*

  
Chief Elected Official

  
Clerk

With inclusions subject to corrections on omitted Lyon Twp. issues not addressing compost site, bulk pickup and recycling.

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Beckus  
(Township/Village) (Name of Local Unit)

has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board of this  
(Board/Council)

municipality hereby Approves  
(Approves/Disapproves)

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Board  
(Board/Council)  
of Beckus held on 03-06-, 2000.  
(Name of Local Unit) (Date)

Mary R. Ripke

Chief Elected Official

Louise M. Nagy

Clerk

# MARKEY TOWNSHIP

Township Offices      Sanitary Drain Office  
4974 E. Houghton Lake Dr.  
Houghton Lake, Michigan 48629

(517)366-9614      FAX (517)366-8631

## Markey Township Approval Of Roscommon County Solid Waste Management Plan Update

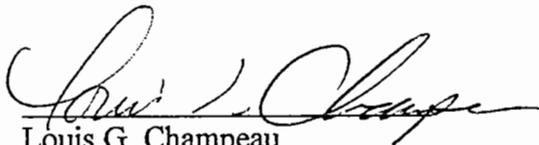
WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Markey has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board of Markey Township hereby approves the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

The Resolution was offered by Drader, seconded by Gardner. On roll call: Aye Votes: Gardner, Champeau, Meibeyer, Drader. Absent: Kortge. Nay votes: None. The Resolution is declared adopted at a regular meeting of the Markey Township Board held on March 13, 2000.



Louis G. Champeau  
Markey Township Supervisor



Shirley A. Meibeyer  
Markey Township Clerk

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Denton  
*(Township/Village)* *(Name of Local Unit)*

has reviewed the updated Solid Waste Plan and its recommendations;

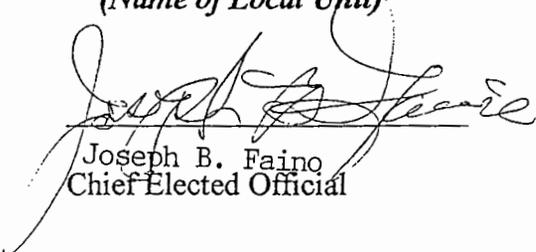
NOW, THEREFORE, BE IT RESOLVED that the Board of this  
*(Board/Council)*

municipality hereby Approves  
*(Approves/Disapproves)*

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Board  
*(Board/Council)*

of Denton Township held on March 1, 2000.  
*(Name of Local Unit)* *(Date)*

  
Joseph B. Faino  
Chief Elected Official

  
Carol A. Asher  
Clerk

RECEIVED

MAR - 7 2000

RESOLUTION #3-7-2000

**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The TOWNSHIP of ROSCOMMON  
*(Township/Village)* *(Name of Local Unit)*

has reviewed the updated Solid Waste Plan and its recommendations;

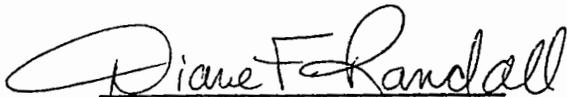
NOW, THEREFORE, BE IT RESOLVED that the BOARD of this  
*(Board/Council)*

municipality hereby APPROVES  
*(Approves/Disapproves)*

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Township Board  
*(Board/Council)*

of Roscommon Township held on March 7, 2000.  
*(Name of Local Unit)* *(Date)*



Diane F. Randall  
Chief Elected Official



Melinda K. Hines  
Clerk

RECEIVED

MAR 12 2000



**Resolution for Action on the  
Roscommon County Solid Waste Management Plan Update by  
Local Units of Government**

WHEREAS, Roscommon County has prepared an updated Solid Waste Management Plan in accordance with Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended; and

WHEREAS, The Roscommon County Board of Commissioners has now approved the plan as prepared and submitted by the County Solid Waste Management Planning Committee; and

WHEREAS, The Township of Nester  
(Township/Village) (Name of Local Unit)

has reviewed the updated Solid Waste Plan and its recommendations;

NOW, THEREFORE, BE IT RESOLVED that the Board of this  
(Board/Council)

municipality hereby Approves  
(Approves/Disapproves)

the Roscommon County Solid Waste Management Plan Update in accordance with Act 451, as amended.

Resolution declared adopted at a regular meeting of the Board  
(Board/Council)  
of Nester Township held on 3-2-2000, 2000.  
(Name of Local Unit) (Date)

James Murray  
Chief Elected Official

Carolyn Corlew  
Clerk

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ATTACHMENTS

**Listed Capacity**

Documentation from landfills that the County has access to their listed capacity.

Letters from various landfill operators will be attached as they are received.



**NORTHERN OAKS RECYCLING AND DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

P.O. Box 813  
513 N. County Farm Road  
Harrison, Michigan 48625  
(517) 539-6111

September 27, 2000

Mr. Douglas A. Bell, AICP  
Community Planning Consultant  
214 East State Street  
Clare, Michigan 48617.

Dear Mr. Bell:

Pursuant to your request for information this shall serve that Northern Oaks Recycling and Disposal Facility has sufficient capacity to receive waste from Arenac, Gladwin, Ogemaw, Roscommon and Iosco Counties for the next 10 years.

If you require further information please do not hesitate to contact me.

Respectfully,

  
Richard Leszcz  
Manager



**WASTE MANAGEMENT**

11375 Sherman Rd.  
Frederic, MI 49733  
(517) 732-3553  
(517) 732-1398 Fax

October 9, 2000

Mr. Douglas Bell  
Community Planning Consultant  
214 East State Street  
Clare, MI 48617

RE: Arenac, Gladwin, Ogemaw, Roscommon, and Iosco Counties Solid Waste Plan  
Updates

The following is in response to your request for documentation regarding the disposal of  
the above listed counties waste at the Waters Landfill in Crawford County.

Solid waste that is generated in the above listed counties can be accepted for disposal at  
Waters Landfill. Disposal capacity for the above listed counties will be available in  
accordance with the Crawford County Solid Waste Plan.

If you have any questions, please call me at (517) 732-3553

Sincerely,

A handwritten signature in black ink that reads 'Debora Johnston'. The signature is written in a cursive, flowing style.

Debora Johnston  
Site Engineer

Cc: Crawford County  
Maple Forest Township

ROGER D. FRYE, CHAIRMAN  
DENNIS KAUFFMAN, VICE- CHAIRMAN  
RAYMOND WEGMEYER, SEC./TREAS.  
RICHARD E. HERMANSON  
MICHAEL HUNT  
TOM MULLANEY  
SANDY CUNNINGHAM, EXEC. SECRETARY



P. O. Box 789, Atlanta, MI 49709

(517) 785-2066 Phone  
(517) 785-4183 Fax

October 2, 2000

Mr. Douglas A. Bell, AICP  
Project Consultant  
214 East State Street  
Clare, MI 48617

Dear Mr. Bell:

In response to your September 27<sup>th</sup> correspondence, please be advised that it is the intention of the Montmorency-Oscoda-Alpena Solid Waste Management Authority Board to accept waste generated in the County's as listed with export authorization in the Montmorency-Oscoda Solid Waste Management Plan, which includes Ogemaw, Roscommon, and Iosco County's.

However, on 6/16/00, the Board directed that all County's with export authorization be advised that we are not in a position to guarantee disposal capacity to any County with the exception of Montmorency, Oscoda and Alpena County's, as Member-County's of the Montmorency-Oscoda-Alpena Solid Waste Management Authority Board.

We will continue to accept refuse from the County's with export authorization, however, we must reserve the right to limit the quantity accepted.

If you require additional information, please contact this office.

Sincerely,

Sandy Cunningham  
Executive Secretary

cc: Landfill Authority Board



36850 Van Born Rd.  
P.O. Box 68  
Wayne, MI 48184  
734-641-3555  
734-728-8890 Fax

November 30, 2000

Mr. Douglas Bell  
Community Planning Consultant  
214 East State Street  
Clare, Michigan 48617

RE: Acceptance for Disposal & Assurance of Landfill Capacity

Dear Mr. Bell,

Republic Services of Michigan hereby acknowledges receipt of your letter dated September 27, 2000, wherein the following Counties of Arenac, Gladwin, Ogemaw, Roscommon, and Iosco, request capacity assurance to meet the needs of their respective County's updated solid waste management plan for the next ten years.

Republic will commit and accept up to 100 percent of the daily and annual volume generated within Arenac, Gladwin, Ogemaw, Roscommon and Iosco Counties at the following Republic owned and operated facilities: the Whitefeather Landfill, located in Bay County, the Elk Run Landfill, located in Presque Isle County, and the Brent Run Landfill in Genesee County. We will commit this capacity for the ten-year planning period commencing upon the date of approval of the updated plan by the MDEQ.

Republic looks forward to assisting these counties in planning for their long-term disposal needs. Please feel free to contact us if there is any other means in which we can provide assistance.

Respectfully,

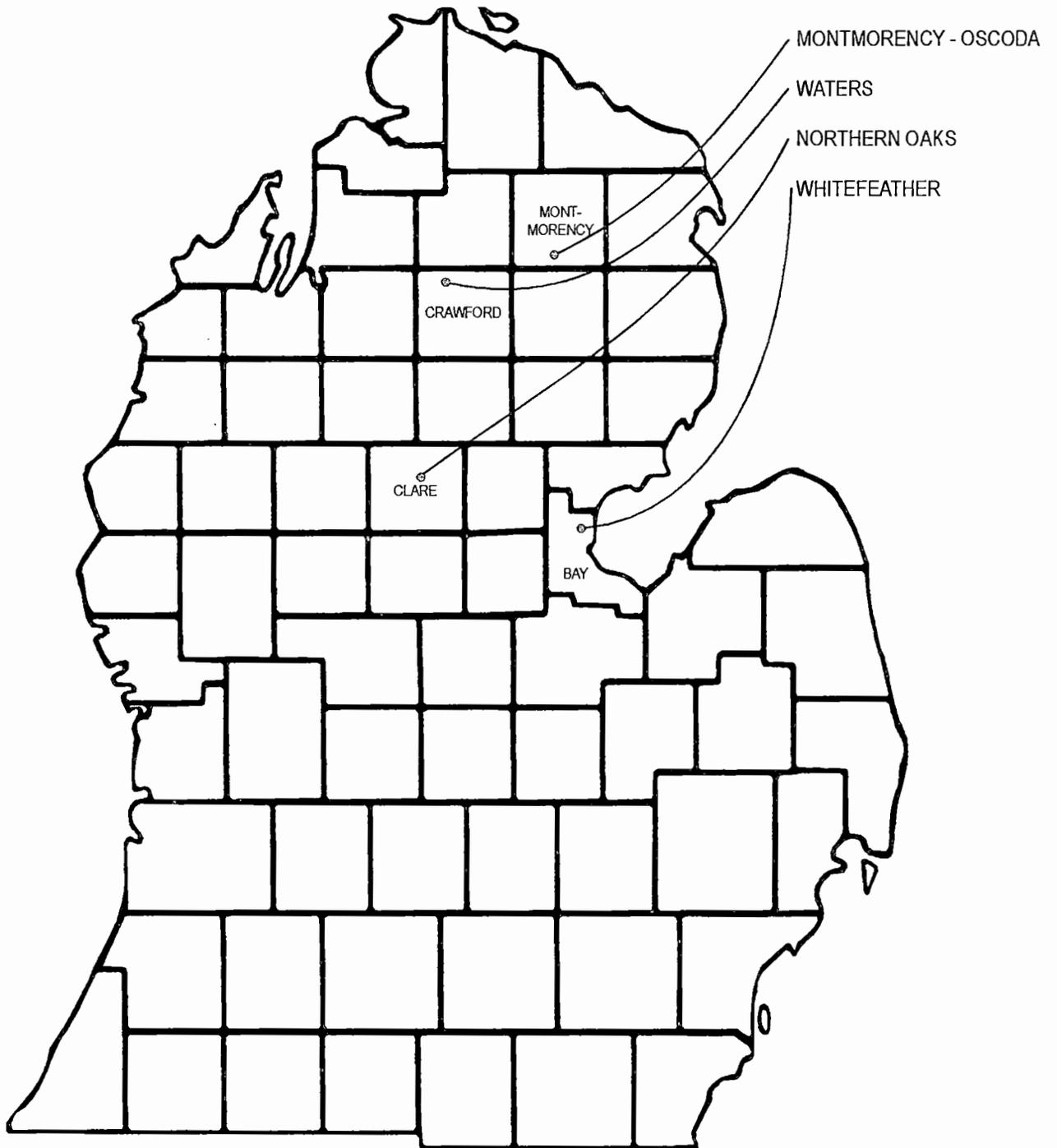
  
Stephanie Glysson  
Director of Governmental Affairs

Cc: Matt Neely, Republic Waste

ATTACHMENTS

**Maps**

Maps showing locations of solid waste disposal facilities used by the County.



## Landfill Locations

ATTACHMENTS

**Inter-County Agreements**

Copies of Inter-County agreements with other Counties (if any).

ATTACHMENTS

**Special Conditions**

Special conditions affecting import or export of solid waste.