STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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RUSSELL J. HARDING, Director

March 15, 2000

Mr. James Erber, Chairperson
Emmet County Board of Commissioners
City-County Building
200 Division Street
Petoskey, Michigan 49770

Dear Mr. Erber:

The Department of Environmental Quality (DEQ) received the locally approved update to the Emmet County Solid Waste Management Plan (Plan) on January 11, 2000. Except for the items indicated below, the Plan is approvable. As outlined in the November 17, 1999 letter to Ms. Elisa Seltzer, Director, Emmet County Department of Public Works, from Mr. Stan Idziak, DEQ, Waste Management Division, and as confirmed in your letter of January 6, 2000, to Mr. Idziak, the DEQ makes certain modifications to the Plan as discussed below.

On page III-57 of the Plan, Siting Criterion H currently reads as follows:

H. No part of the site and respective parcel(s) is located within or less than 100 feet from the boundary edge of:

1. Any surface water;

2. Beach contiguous to a lake or stream;

3. Existing public utility easements; and

4. Existing public rights of way.

The DEQ staff believes that the criteria under numbers 3 and 4 will effectively prohibit any new disposal area from being sited under this plan, since virtually all property on which a disposal area might seek to locate would abut a public road and would be located near the public utilities necessary to provide service to the property. Section 11538(3) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), requries an approvable interim siting mechanism to include: "both a process and a set of minimum siting criteria, both of which are not subject to interpretation or discretionary acts by the planning entity, and which if met by an applicant submitting a disposal area proposal,

will guarantee a finding of consistency with the plan." The above referenced siting criteria would ensure that no proposed disposal area could be found consistent with the Plan.

Therefore, Siting Criterion H of the Plan is hereby altered to read:

H. No part of the active work area of the site is located within or less than 100 feet from the boundary edge of:

1. Any surface water;

2. Beach contiguous to a lake or stream;

3. Existing public utility easements; and

4. Existing public rights of way.

The term, active work area, is the legally defined phrase most appropriate to the intent of these criteria. This term is defined in R 299.4101 (g) of the administrative rules for Part 115 of the NREPA.

The second problem involves the inclusion of Sections 2100 and 2102 of the Emmet County Zoning Ordinance in the Plan as included on pages III-68, III-69, and in Appendix H. While it may have been the intent of the Plan to reference only those articles in the ordinance outlined in Appendix H that deal with ancillary construction details and operational aspects of any permitted facility sited within Emmet County (County), there are segments of Sections 2100 and 2102-11 that (1) may conflict with the Plan, the DEQ authority under Part 115, and the Part 115 administrative rules or (2) are actually siting controls which should be included as specific criteria.

Section 11538(8) of Part 115 preempts enforcement of all local regulation of disposal area location, development, and operation except to the degree approved by the DEQ as part of the Plan. The purpose of this section is to ensure that any local disposal area regulation does not conflict with Part 115 or the DEQ regulatory authority and responsibilities. Therefore, we cannot approve inclusion of this ordinance in the Plan. This ordinance and reference to this ordinance are hereby deleted from the Plan.

With these two modifications, the County's updated Plan is hereby approved, and the County now assumes responsibility for the enforcement and implementation of this Plan. Please ensure that a copy of this letter is included with copies of the approved Plan distributed by the County.

By approving the Plan with modifications, the DEQ has determined that it complies with the provisions of Part 115 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 the 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 Emmet County. If you have any questions, please contact Mr. Seth Phillips, Chief, Solid Waste Management Unit, at 517-373-4750.

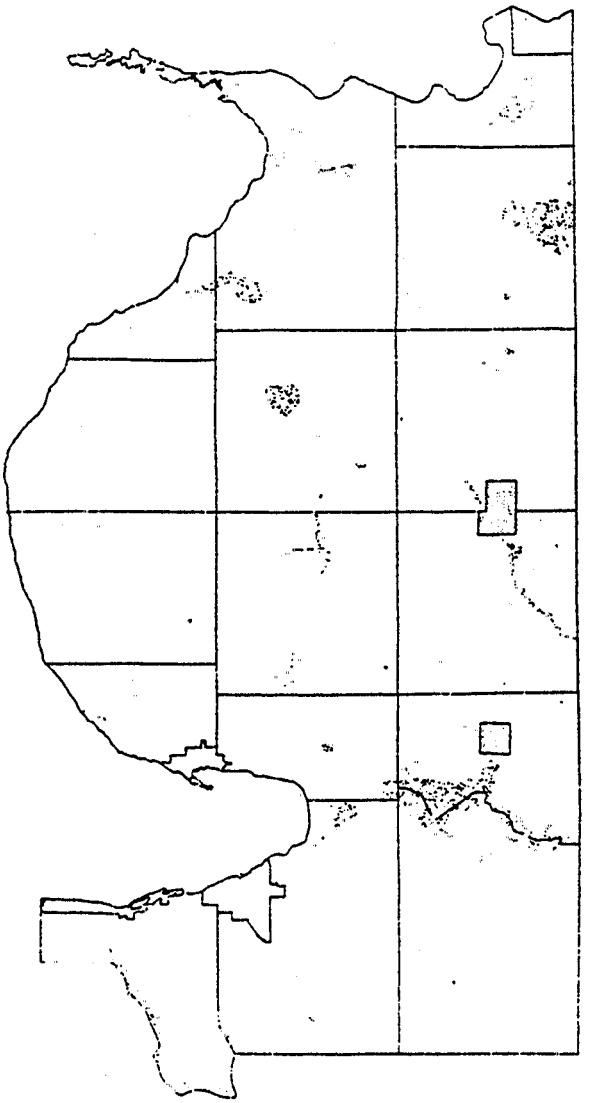
Sincerely,

Russell J. Harding
Director
517-373-7917

cc: Senator Walter H. North
Representative Scott Shackleton
Ms. Elisa Seltzer, Emmet County Department of Public Works
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Ms. Cathy Wilson, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Philip Roycraft, DEQ - Cadillac
Mr. Seth Phillips, DEQ
Mr. Stan Idziak, DEQ
Emmet County File

Emmet County
Solid Waste Management Plan Update

As Approved by the Board of Commissioners
January 14, 1999



Designated Planning Agency:
Emmet County Department of Public Works
200 Division Street, Petoskey, MI 49770

Emmet County
Solid Waste Management Plan Update

As Approved by the Board of Commissioners

January 14, 1999

AS REQUIRED BY SECTION 11539a OF

PART 115, SOLID WASTE MANAGEMENT SECTION, OF

THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT

1994 PA 451, AS AMENDED

DATE SUBMITTED TO THE DEQ: JULY 08, 1999

This solid waste management plan includes Emmet County. No other counties or municipalities outside Emmet County have been included in this plan.

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE: Emmet County Department of Public Works

CONTACT PERSON: Elisa Seltzer

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CENTRAL REPOSITORY LOCATION(S): County Clerk's Office
200 Division Street
Petoskey, MI 49770

Emmet County Solid Waste Management Plan Update

As Approved by the Board of Commissioners

January 14, 1999

Table of Contents

I-1 EXECUTIVE SUMMARY 1

OVERVIEW OF THE COUNTY 1
THE SOLID WASTE PLANNING PROCESS 2
THE PLAN'S SELECTED ALTERNATIVE 3
AUTHORIZED MANAGEMENT COMPONENT 7
TIMETABLE FOR IMPLEMENTING THE PLAN'S ENFORCEABLE PROGRAM 8

I-2 INTRODUCTION 1

GOALS AND OBJECTIVES 1

II-1 DATA BASE 1

RESIDENTIAL WASTE GENERATION 1
COMMERCIAL/INDUSTRIAL WASTE GENERATION 2
SPECIAL WASTE STREAMS 2
MAJOR WASTE GENERATORS 3
TOTAL WASTE GENERATION 3
TOTAL WASTE DISPOSAL 4

II-2 SOLID WASTE DISPOSAL AREAS 5

II-3 SOLID WASTE FACILITY DESCRIPTIONS 6

II-4 SOLID WASTE COLLECTION SERVICES /TRANSPORTATION INFRASTRUCTURE 15

II-5 EVALUATIONS OF DEFICIENCIES AND PROBLEMS 17

II-6 DEMOGRAPHICS 18

II-7 LAND DEVELOPMENT 19

II-8 SOLID WASTE MANAGEMENT ALTERNATIVES 21

III-1 THE SELECTED SOLID WASTE MANAGEMENT SYSTEM 1

III-2 IMPORT AUTHORIZATION 6

CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE 6
FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE 7

III-3 EXPORT AUTHORIZATION 9

CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE 9

FUTURE EXPORT VOLUME AUTHORIZATION OF SOLID WASTE 11

III-4 SOLID WASTE DISPOSAL AREAS 13

III-5 SOLID WASTE COLLECTION SERVICES & TRANSPORTATION 26

III-6 RESOURCE CONSERVATION EFFORTS. 27

III-7 WASTE REDUCTION, RECYCLING AND COMPOSTING 27

VOLUME REDUCTION TECHNIQUES 27
OVERVIEW OF RESOURCE RECOVERY AND RECYCLING PROGRAMS 28
RECYCLING AND COMPOSTING PROGRAMS 28
IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES. 38
PROJECTED DIVERSION RATES 39
MARKET AVAILABILITY FOR COLLECTED MATERIALS 39
EDUCATIONAL AND INFORMATIONAL PROGRAMS 40

III-8 TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION 41

III-9 SITING REVIEW PROCEDURES 42

AUTHORIZED DISPOSAL AREA TYPES 42
SITING CRITERIA AND PROCESS 44
DEFINITION OF THE FACILITY SITING COMMITTEE 52
MINIMUM STANDARD SITING CRITERIA 53

III-10 SOLID WASTE MANAGEMENT COMPONENTS 58

STRENGTHS OF THE CURRENT MANAGEMENT SYSTEM 58
FURTHER DEVELOPMENT OF THE MANAGEMENT COMPONENT 58
IMPLEMENTATION OF THE MANAGEMENT COMPONENT 60

III-11 IDENTIFICATION OF RESPONSIBLE PARTIES 64

III-12 LOCAL ORDINANCES AND REGULATIONS 65

III-13 CAPACITY CERTIFICATIONS 66

APPENDIX A: ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM A-1

EVALUATION OF RECYCLING A-1
EVALUATION SUMMARY OF THE SELECTED SYSTEM: A-6

APPENDIX B: NON-SELECTED SYSTEMS B-1

APPENDIX C: PUBLIC PARTICIPATION AND APPROVAL C-1

APPENDIX D: PLAN IMPLEMENTATION STRATEGY D-1

ATTACHMENTS ATT-1

RESOLUTIONS ..... ATT-A

LISTED CAPACITY ..... ATT-B

TABLE OF CONTENTS

MAPS ..... ATT-C

INTER-COUNTY AGREEMENTS ..... ATT-D

DETAILED POPULATION DATA ..... ATT-E

SPECIAL CONDITIONS ..... ATT-F

EMMET COUNTY SOLID WASTE ORDINANCE AND INTERGOVERNMENTAL AGREEMENT ..... ATT-G

EMMET COUNTY ZONING ORDINANCE ..... ATT-H

I-1 EXECUTIVE SUMMARY

The following summarizes the solid waste management system selected to manage the solid waste within the County.

OVERVIEW OF THE COUNTY

At 460 square miles, Emmet County is geographically the third smallest county in the State of Michigan. The county is also relatively small in total population, having an estimated 1998 year round population of some 29,010 persons. Resort populations and tourism are major components of the economy, supplemented by a vast array of services, including retail businesses, medical facilities, public services and education. There is a healthy industrial sector, but it has not attained as high a percentage of the total employment as other counties in the region.

The county's natural resources have been and continue to be the base upon which community development processes depend. With historical roots in hunting, fishing, and timbering, the County's economy moved into agriculture, mining and commerce accompanied by a long history of resort and tourist based economic activity. The attractions of the Great Lakes water resources, the rolling landscape, and moderate climate combined, generate a major resort development pattern, that is not only historic, but accelerated in modern times with the Bay Harbor Development, which occupies some five miles of shoreline on Lake Michigan's Little Traverse Bay.

Emmet county is comprised of over 309,237 acres, the majority of which is forest land, (Upland 49%, Lowland 12%). Agricultural land also accounts for a large percentage of the county at almost 17 percent of the total acreage compared to only 2.66 percent of the county comprised of Residential, Commercial and Industrial use.

Emmet County	Land use by category					
	Agriculture	Forestry	Industry	Commercial	Residential	Other
Percentage of total	16.82%	61.05%	0.14%	0.25%	2.27%	19.47%
Acres	52,014	188,743	433	773	6,989	60,285

Source: Land Use Acreage by Category Emmet County, Table 3-20 in *Emmet County/City of Petoskey Comprehensive Plan*. July 1997.

While the majority of land base in the county is rural (97.34%), farming, fishing and forestry only account for 2.5% of the employment in the county. The remaining 2.66% of urban acreage contains 97.5% of the economic base.

Emmet County Employment by Category

	Farms/Ag/For	Professional	Sales/Services	Industry
Percentage of total	2.5%	20.9%	47.9%	28.7%

Source: Employment by Industry, Emmet County, Table 3-13 in *Emmet County/City of Petoskey Comprehensive Plan*. July 1997.

THE SOLID WASTE PLANNING PROCESS

The Designated Planning Agency (DPA) and the Solid Waste Planning Committee (SWPC) completed a comprehensive strategic planning process that outlined strengths, weaknesses, opportunities, and threats that are part of the current and potential future solid waste management system that services the County. This analysis was used to create goals and objectives which are provided immediately after this Executive Summary. These goals and the strategic analysis formed the basis for developing the solid waste management strategy and the selected alternative that is described in this Plan as the Plan's Enforceable Program and Process as provided for in Part 115, Section 11533 (1) of the Michigan Natural Resources and Environmental Protection Act (NREPA).

In developing the Plan's Enforceable Program and Process the DPA and SWPC first screened out strategies that were technically or economically unsuitable for the County. The DPA and SWPC then reviewed a set of solid waste management program strategies in the following eight areas that were viewed as technically and economically feasible:

- Clean Community
- Drop-Off Residential Recycling
- Residential Yard Waste Composting
- Material Transfer and Processing
- Recycling Incentives
- Curbside Residential Recycling
- Commercial Recycling
- Disposal

These program strategies were assembled as System Alternatives that varied by level of landfill diversion, capital and operating cost and implementation requirements. At this stage in the strategic planning process, some of the Strategic Alternatives were determined to be unsuitable for the County based on an evaluation of the overall technical and economic feasibility of each approach and its ability to:

- build on the strengths of the local and regional situation,
- address current deficiencies and weaknesses,
- work with organizational approaches that the County is willing to consider,
- be fundable through systems that the County can implement,
- respond to and build community involvement and support,
- be enforceable, and
- set measurable goals that can be tracked to determine progress.

Appendix B of the Plan contains further detail regarding the System Alternatives that were not selected as part of the Plan's Enforceable Program.

The strategic planning process was carried through to final conclusions regarding the program strategies that would make up the Plan's Selected Alternative and become the foundation for the Plan's Enforceable Program as required by statute. The strategic planning process included surveying of the views of key stakeholders in the planning process, and others considered to be critical to implementation of the plan - primarily local government officials. The Selected Alternative is described briefly below and in the balance of the Plan with further detail provided in Appendix A of the Plan.

THE PLAN'S SELECTED ALTERNATIVE

During Years 1 through 4 of the Planning Period the Plan's Enforceable Program provides for the implementation of System Alternative 1, detailed further in Part III of this Plan with additional supporting material provided in Appendix A:

EMMET COUNTY SYSTEM ALTERNATIVE 1
EXPANDED CLEAN COMMUNITY AND CURBSIDE RECYCLING PROGRAM

Key features include a Clean Community program that operates at highly effective levels making sure that disposal and recycling services are provided in all areas of the County. Incentives to recycle boost program performance, increasing tonnage and lowering unit costs. Expanded recycling drop-off capabilities at the Emmet County Recycling/Transfer Facility increase options for recovering more materials. Further work on development of curbside programs for cities, villages and towns is pursued in order to increase convenience for a large sector of the population. This is made possible by continued upgrading of the capabilities of the Recycling/Transfer facility to allow acceptance of recyclables that are more commingled than current practice allows. Commercial recycling is further developed to increase convenience and diversion. Organics management options are made available throughout the year with the addition of one or more drop-offs for yard waste. Bans on collection/disposal of certain materials as solid waste are evaluated and considered for a target period 5 years away should specific diversion levels not be reached. This is coordinated between the transfer station as well as the landfill used by the transfer station.

Following is a more detailed description of the specific program elements that are part of Phase 1 of the Selected Alternative and the Plan's Enforceable Program. Specific details on who will implement the Plan's Enforceable Program are covered in the next section covering the Plan's Authorized Management Program. The timing of implementation of the Plan's Enforceable Program are then provided in the Plan's Timetable for Implementation that follows. The County's Solid Waste Program, implemented jointly by units of government within the county in cooperation with other public agencies and private firms will include the following features:

Emmet County Selected System Alternative Phase 1:
Detailed System Component Descriptions

Clean Community:

Comprehensive solid waste collection services would be made available to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations. Spring/fall cleanup days would be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides. Adopt a "____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be evaluated, refined and continued to be emphasized throughout the County in all solid waste collection arrangements. Recycling collection programs as well as drop-offs would add more materials to encourage overall participation in the program by more citizens and businesses. Bans on collection/disposal of certain materials as solid waste would be evaluated and targeted for a period five years away should specified levels of diversion not be reached.

This will provide a further incentive for increased adoption of and participation in recovery programs.

Drop-Off Residential Recycling:

The existing network of drop-off sites for recycling would continue to be developed with upgrades to continually improve visibility and user convenience. Adjustments would be made to allow material to be collected in a commingled form to make use of the drop-offs easier - coordinated with development of the capability to process this material at the Recycling/Transfer facility. The current Recycling/Transfer facility would be further expanded into a "flagship" drop-off site that is staffed, has an educational component, and collects the largest number of different types of materials.

Curbside Residential Recycling:

Arrangements would be made with haulers through licensing to make sure that curbside recycling with two stream commingled curbside collection would be available on a subscription basis to all residents in a designated curbside service district. Petoskey and Harbor Springs and surrounding densely populated areas would be included.

Residential Yard Waste Composting:

Fall leaf collection would be provided in all villages/towns/cities. Petoskey and Harbor Springs would continue their current collection efforts, with smaller communities including Alanson, Pellston and Levering adding fall leaf collection. Backyard composting would be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program would encourage grass cycling. Permanent drop-off options for yard waste would be provided in the County with one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Some wood waste processing would be included with this site. Petoskey may serve as the best location for a "flagship" site that would accept seasonal yard waste throughout the growing season, however, this sort of drop-off could be set up at the transfer station as well.

Commercial Recycling:

The Recycling/Transfer facility would be expanded to serve as a permanent site provided for businesses to drop-off a wide variety of recyclables including commingled containers and commingled paper (as facility modifications are made). A business recycling service district would be established and businesses within the district encouraged to contract for the recycling collection services provided by licensed haulers.

Material Transfer and Processing:

The Recycling/Transfer facility would be expanded to increase its capability to process material that is more commingled than the current system allows. This expanded material recovery facility (MRF) would be available to all recycling collectors in the system and service surrounding counties as well. Commercial recyclables would be able to be tipped at the facility for a reasonable fee that was lower than the tipping fee at area landfills. Some capability would be provided to remove contaminants and small quantities of solid waste from loads of recyclables.

Disposal:

Existing landfills in the region would be used with the transfer station serving as the destination for all compacting collection vehicles serving the county, with the exception of Type II solid waste collected within the jurisdiction of municipalities that have not signed on to participate in

the Emmet County Solid Waste Ordinance # 20. Arrangements would be made to assure that the most cost effective disposal service was being secured. One or more additional drop-off facilities for solid waste would be available with the transfer station serving as a "flagship" site that took other types of waste such as bulky waste and construction and demolition (C&D) waste, recycling these materials to the degree possible.

During Years 5 through 10 of the Planning Period the Plan's Enforceable Program provides for the implementation of System Alternative 2, detailed further in Part III of this Plan with additional supporting material provided in Appendix A:

EMMET COUNTY SYSTEM ALTERNATIVE 2
EXPANDED CLEAN COMMUNITY AND COMPREHENSIVE RECYCLING PROGRAM

Comprehensive Clean Community program is expanded to service all sectors of waste generators. Bans on collection/disposal of certain materials at the Recycling/Transfer facility (as well as landfills used by the Transfer Station) continue to be evaluated on a 1 year implementation timeline in order to continue to boost recycling program tonnage and lower unit costs. Documentation of achievement of specified diversion levels could delay or avoid the bans if desired. Incentives to recycle continue to be strengthened to boost program performance, increasing tons and lowering unit costs. Drop-off recycling system continues to be refined to maximize convenience and to fit with the level of curbside service usage documented in the designated curbside service district. Commercial recycling and C&D recycling begin to broaden business opportunities for diversion. Yard waste diversion from landfill disposal through collection programs or source reduction will reach near 100%. The Material Recovery Facility/Transfer Station is further developed to maximize system flexibility for cost savings and landfill diversion serving both residential and commercial sectors as well as special C&D waste streams and regional needs of nearby counties. Innovative techniques for increasing diversion or reducing system costs are explored, building a strong foundation for significantly lower reliance on landfills as primary means of waste management.

Following is a more detailed description of the specific program elements that are part of Phase 2 of the Selected Alternative and the Plan's Enforceable Program. Specific details on who will implement the Plan's Enforceable Program are covered in the next section covering the Plan's Authorized Management Program. The timing of implementation of the Plan's Enforceable Program are then provided in the Plan's Timetable for Implementation that follows. The County's Solid Waste Program, implemented jointly by units of government within the county in cooperation with other public agencies and private firms will include the following features:

Emmet County Selected System Alternative Phase 2:
Detailed System Component Descriptions

Clean Community:

Comprehensive solid waste collection services would continue to be available to all households and businesses in the County. Households in an urban service district would automatically receive the service. Strong illegal dumping and litter policing would continue. Spring/fall cleanup days would be provided in the urban service district with scavenging/trading/reuse encouraged. A permanent hazardous waste collection site would be provided that serviced households as well as agricultural hazardous waste generators and unregulated small quantity hazardous waste generators. Adopt a "____" programs would be further developed with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be widespread throughout the County. Recycling collection programs would add more materials to encourage participation by more citizens and businesses. Selected materials (e.g. OCC) would be considered for a disposal ban targeted for the end of year 5 should specified levels of diversion not be achieved.

Drop-Off Residential Recycling:

The permanent network of drop-off sites for recycling would be open and available for use all the time with continued development of the "flagship" drop-off site at the Material Recovery Facility/Transfer Station including supporting educational services and collection of additional materials not serviced by the rest of the drop-off system. Collection of construction waste (C&D) would be added at the "flag-ship" site.

Curbside Residential Recycling:

Two stream commingled curbside recycling would be automatically provided to all residents in an expanded curbside service district around Petoskey and Harbor Springs as well as resort areas and subdivisions. Use of subscription service outside this district would be strongly encouraged.

Residential Yard Waste Composting:

Seasonal yard waste collection including fall leaf collection would be automatically provided to an urban service district. Backyard composting would be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program would encourage grass cycling. One or more permanent drop-off options for yard waste would be provided in the County with one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Selected processing of food waste would be included as well as clean wood waste processing. A central processing site would need to be located and developed.

Commercial Recycling:

The Material Recovery Facility/Transfer Station would continue to be expanded to service businesses that would drop-off a wide variety of recyclables including commingled containers and commingled paper. A business recycling service district would be developed and businesses within the district assisted in arranging an umbrella contract for services.

Material Transfer and Processing:

The Material Recovery Facility/Transfer Station would continue to be expanded to provide services to all recycling collectors in the system. Consideration would be given to upgrading the transfer station by equipping it with a high density (900 to 1,000 lbs/cy) compaction system to allow longer distance waste transfer. The facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC. Commercial recyclables would be able to be tipped at the facility for a reasonable fee that was lower than the tipping fee at area landfills. Mixed loads of commercial solid waste that have a high percentage of recyclable materials would be sorted.

Disposal:

Compacting collection vehicles would haul to the transfer station, with the exception of Type II solid waste collected within the jurisdiction of municipalities that have not signed on to participate in the Emmet County Solid Waste Ordinance # 20. The transfer station then would ship waste to landfills in Northern Michigan that offered the most competitive rate. One or more drop-off facilities for solid waste would be available to complement the "flagship" site at the Material Recovery Facility/Transfer Station that would take other types of waste (bulky, C&D, etc.).

AUTHORIZED MANAGEMENT COMPONENT

The Selected Alternative as described above is established by this Plan as the Plan's Enforceable Program defining the Emmet County Solid Waste Management System, implemented jointly by units of government within the county in cooperation with other public agencies and private firms. The Plan's Enforceable Program includes a "Management Component" that defines details of who will take responsibility for implementation and how that will be accomplished. This Authorized Management Component is described briefly below and further detailed in Part III of the Plan under a section with the same name.

The Authorized Management Component builds on the County's current organizational and management structure including the County's solid waste ordinance, system of intergovernmental agreements, contractual arrangements for plan implementation and all related features.

Further development of this organizational and management structure as part of the Plan's Authorized Management Component is provided for as part of the Plan's Enforceable Program. These developments may take a number of forms and will only be initiated after an evaluation of the best steps that can be taken to build on the strengths of the current system already in place. These steps will be detailed in an "implementation action plan" that the Plan's implementation agency will coordinate development of in order to provide for necessary details required to carry out the Plan's Enforceable Program. These action steps are expected to follow some, if not all, of the following description of an enhanced management system that will provide for a method of funding the selected alternative including the continued upgrading of the MRF/Transfer Station and other aspects of the Selected Alternative.

- User fees will continue to be the backbone of the Plan's Management Component funding system, as they are right now.
- A supporting network of service contract arrangements will be used to achieve Plan goals, structured to be compatible with and supportive of the Ordinance #20 driven licensing and facility designation requirements currently in place.
- Other supporting mechanisms will be used to organize and direct resources towards implementing the Selected Alternative and other aspects of the Plan's Enforceable Program.

TIMETABLE - IMPLEMENTING THE PLAN'S ENFORCEABLE PROGRAM

The Plan's Enforceable Program includes an implementation timeline for the Plan's Authorized Management Component and Selected Alternative. The following table summarizes key milestones for implementing the Plan's Enforceable Program and is further detailed in Part III of the Plan under a section with the same name.

Management Components	Timeline
1) Develop/Adopt Implementation Action Plan	1999
2) Amend Intergovernmental Agreements/Ordinance/Rules/Regs	1999
3) Preliminary Program Specifications for Planned Ph I Programs	1999
4) Establish Budgets for Planned Phase I Programs	1999
5) Finalize Any Upgrades to Funding Structure and Mechanisms	1999/2000
6) Initiate all Phase I outreach/education programs	1999/2000
7) Procure all other Phase I system improvements	1999/2000
8) Renegotiate Arrangements for Long Term Disposal Capacity	2002-2008
9) Engineer & construct transfer station/MRF modification	2002-2003
10) Trigger Ban on Selected Items from Landfill Disposal	2003-2008
11) Preliminary Program Specifications for Planned Ph II Programs	2002-2003
12) Establish Budgets for Planned Phase II Programs	2002-2003
12) Finalize Any Upgrades to Funding Structure and Mechanisms	2002-2003
14) Initiate all Phase II outreach/education programs	2003-2008
15) Procure all other Phase II system improvements	2003-2008
16) Data Tracking to Assess Program Performance	Annual/Ongoing
17) Update Implementation Action Plan	Annual/Ongoing

I-2 INTRODUCTION

To comply with Part 115 and its requirements, the Emmet County Solid Waste Plan establishes an Enforceable Program and Process that is directed toward goals and objectives based on the purposes stated in Part 115, Section 11538.(1)(a), 11541.(4) and the State Solid Waste Policy adopted pursuant to this Section, and Administrative Rules 711 (b)(i) and (ii).

GOALS AND OBJECTIVES

Goals and Objectives for the Emmet County Plan's Enforceable Program and Process as adopted by the Solid Waste Planning Committee follow:

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: Maintain, support and expand existing recycling and resource recovery programs and facilities.

Objective 1.1: Maintain conveniently located recycling drop-off sites county-wide, endeavoring to retain all existing collection centers, and expand recycling services where and when appropriate.

Objective 1.2: Maintain household hazardous waste collections and research the potential for offering expanded access to Conditionally Exempt Small Quantity Generators.

Objective 1.3: Research the potential for building materials, construction and demolition materials for re-use, recycling, or other recovery options, and encourage potential operators to enter this field of recycling.

Objective 1.4: Improve the opportunity for residents to compost yard waste with educational materials; develop a county compost program that may include a centralized compost facility, yard waste drop-offs, or other organic processing programs, and possibly a back-yard compost bin distribution program.

Objective 1.5: Improve the opportunities for businesses and institutions to recycle waste materials and to fully participate in composting programs.

Goal 2: Eliminate pollution resulting from waste.

Objective 2.1: Expand household hazardous waste collection programs, considering more frequent collection and more storage capacity.

Objective 2.2: Maintain collection of batteries, motor oil and antifreeze.

Objective 2.3: Discourage the burning of waste materials to protect air quality through publicity, recycling and composting.

Objective 2.4: Improve efforts to properly decommission appliances of freon.

Goal 3: Improve efforts to eliminate illegal dumping and enforce litter regulations.

Objective 3.1: Provide public education on the costs of illegal dumping, both financially and ecologically, directing residents to accessible options as well as impose fines and penalties for violations.

Objective 3.2: Identify illegal dumping sites, determine what materials are most often discarded, work to close and clean up such sites, and name legal disposal methods, particularly recycling, composting, reuse and disposal.

Objective 3.3: Utilize available enforcement mechanisms and resources to preserve and protect our environment, enlisting support of State and/or Federal agencies if necessary.

Objective 3.4: Develop a partnership or cooperate with the Michigan Department of Natural Resources' (MDNR) "Adopt a Forest Program" to minimize the dumping of waste materials on public lands.

Goal 4: Maintain competitive waste management services for County residents and businesses.

Objective 4.1: Research comparable community costs for solid waste collection and disposal.

Objective 4.2: Research alternatives to encourage competitive waste services in the County, such as a publicly owned or multi-county sanitary landfill.

Objective 4.3: Provide public information on available services.

Goal 5: Provide adequate revenues to fund County solid waste and resource recovery programs.

Objective 5.1: Maintain enforcement of the County's solid waste ordinance, which provides for funding through flow control to the transfer station and a surcharge on waste.

Objective 5.2: Maintain volume based fees for solid waste disposal to increase incentives to reduce waste and utilize resource recovery options.

Objective 5.3: Explore alternative funding mechanisms, such as surcharges at landfills, to protect against the potential for losing the ability to enforce flow control of waste.

Goal 6: Increase public awareness and understanding of solid waste management issues and resource recovery goals and objectives.

Objective 6.1: Maintain an office and staff to provide informational materials on solid waste and resource recovery programs, where questions from individuals and businesses can be directed, and educational and promotional programs can be administered.

Objective 6.2: Notify the public about recycling programs, household hazardous waste collections, resource exchanges, solid waste issues, and other related issues and events through the local media.

Objective 6.3: As appropriate, attend local events and shows with a traveling display and exhibit, distribute materials and answer questions regarding solid waste and resource recovery activities in the county.

Objective 6.4: Print a newsletter for distribution to the general public, as often as appropriate, giving information on recycling , composting, hazardous waste collection, other resource recovery initiatives, and general issues concerning solid waste disposal.

Goal 7: Work cooperatively with the State, Regional Agencies, private waste service industries, and other counties in Northern Michigan to improve overall effectiveness of all elements of waste collection, handling, and disposal, including resource recovery.

Objective 7.1: Exchange copies of county solid waste plans with other counties in the region, as a means to coordinate waste disposal goals and work towards commonly accepted goals.

Objective 7.2: Work out mutually satisfactory reciprocal solid waste disposal agreements in order to optimize the efficiency of such systems as: landfills, transfer stations, recycling centers, composting sites, hauling services and all forms of resource recovery, especially to minimize the volume of waste requiring landfill disposal.

Objective 7.3: Hold periodic meetings with other counties in the region or area, and include private waste industry representatives, in order to have an open discussion of problems and solutions to problems involving any aspect of the disposal of wastes and the recovery of resources found in the waste stream, and thereby, build a basis for mutual understanding of each others problems and opportunities.

II-1 DATA BASE

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

The following database is derived from the listed sources:

- County Business Patterns
- Northwest Michigan Council of Governments Population Study
- Emmet County Planning Department
- Emmet County Department of Public Works
- Interviews with municipal program operators and private sector service providers

Residential solid waste data was calculated by the consultant, Resource Recycling Systems, Inc. using the rate of 3.0 pounds of solid waste generated per person per day (urban and resort areas) and 2.6 pounds per person per day for rural areas. These numbers were then modified to reflect seasonal population adjustments and overall population growth estimates for the next ten years. Finally, actual reported disposal and waste reduction data were used to adjust generation rates. These generation calculations are then presented as "centers of solid waste generation" in the chart below as required by the Plan Format. A more detailed description of how estimates were calculated may be found in Attachment E.

Table II-1 Residential Waste Generation by Municipality

Municipality	1998 Tons	2003 Tons	2008 Tons
Bear Creek township	2359	2699	2745
Bliss township	312	347	362
Carp Lake township	383	429	447
Center township	323	349	355
Cross Village township	144	145	151
Friendship township	382	425	443
Harbor Springs city	946	986	931
Alanson village	405	428	425
Littlefield township	1019	1174	1224
Little Traverse township	1125	1298	1353
Pellston village	383	366	361
McKinley township	379	414	432
Maple River township	435	477	498
Petoskey city	4283	5025	5237
Pleasantview township	261	270	281
Readmond township	261	269	280
Resort township	1197	1307	1397
Springvale township	827	935	974
Mackinaw City village	310	315	320
Wawatam township	96	69	72
West Traverse township	583	612	607
Emmet County Total	**16,411**	**18,339**	**18,893**

COMMERCIAL/INDUSTRIAL WASTE GENERATION

Commercial waste generation was determined by multiplying estimated pounds per employee per day for specific Standard Industrial Codes (SIC) by the actual employment numbers in Emmet County. Pounds per employee per day figures were generated by Resource Recycling Systems based on previous SIC code-specific surveys and studies of various counties in the Unites States. Employment numbers were obtained for the year 1995 from U.S. Census data on County Business Patterns. Waste generation numbers were then modified based on actual reported waste generation by a phone survey of major generators within the County. The number of work days per year is assumed to be 260. The resulting waste generation calculations are presented below as "centers of generation" for commercial and industrial SIC groups, as required by the Plan Format.

Table II-2 Commercial/Industrial Waste Generation

SIC	SIC Description	## of employees (1995)*	lbs/ person/ day	Tons/ year (1995)
0700-0999	Agriculture, Forestry, Fishing	125	5	81
1000-1499	Mining	0	4	0
1500-1999	Construction	897	23	2682
2000-3999	Manufacturing	1698	19	4194
4000-4999	Transportation/Public Utilities	342	5	222
5000-5199	Wholesale trade	490	12	764
5200-5999	Retail trade	3251	12	5072
6000-6999	Finance, Insurance, Real Estate	695	16	1446
7000-7999	Services	4664	8	4851
99--	Unclassified establishments	128	6	100
		12,290	**12.15**	**19,412**
		Total	*Average*	*Total*

**from 1995 County Business Patterns Data*

SPECIAL WASTE STREAMS

Sewage sludge is generated by the Cities of Petoskey and Harbor Springs and the Village of Mackinaw. Sludge generated by the facilities is currently land applied. At present, none of the wastewater treatment plants has any plans to landfill or incinerate sludge.

Table II-3 Special Waste Streams

Source	Material	Tons per year generated	Tons needing disposal
City of Petoskey	Sewage sludge	n/a	0
City of Harbor Springs	Sewage sludge	n/a	0
Village of Mackinaw	Sewage sludge	5	0 (field applied)

MAJOR WASTE GENERATORS

Emmet County continues to experience growth in the business sector, particularly retail and resort (e.g. Bay Harbor). Overall, the county does not anticipate major problems associated with managing the commercial and industrial solid waste generated within its borders. Table II-4 provides a list of major business and industrial waste generators in the County.

Table II-4 Major Waste Generators in Emmet County

Generator	Location	Type	## empl
Boyne U.S.A.	Petoskey	Golf & Ski resort	600
Burns Clinic	Petoskey	Medical facility	300
Northern Michigan Hospitals	Petoskey	Hospital	1000
Control Engineering Co.	H. Springs & Pellston	Engineering design	368
Northern Die Cast	Harbor Springs	Magnesium diecasting	130
Glass Alternatives, Inc.	Petoskey	plastic coating	132
Manthei Veneer Mill, Inc.	Petoskey	Wood products-veneer	140
Michigan Maple Block, Co.	Petoskey	Wood products-laminated	90
Redco Corporation	Pellston	Mold aluminum castings	42
McLaughlin Co.	Petoskey	Specialty auto fasteners	148
Continental Structural Plastic	Petoskey	Fiberglass molding	150
Mitchell Graphics	Petoskey	Commercial printer	60
Petoskey Plastics	Petoskey	plastic bags/sheathing	120
Town & Country Cedar Homes	Petoskey	Natural wood homes	70
Bay Harbor	Petoskey	Resort/golf course/housing	n.a.

TOTAL WASTE GENERATION

Waste generation is shown in Tables II-5 and II-6 below. Waste generation data was calculated using waste projection models (pounds per person per day for residential, and pounds per employee per day for commercial/industrial). Adjustments were made for seasonal population fluctuations and differences between rural and urban areas. Waste generation was projected into the future based on projected population growth patterns. Table II-5 shows projections in tons per year; while Table II-6 shows projections in cubic yards per year.

Table II-5: Total Waste Generated (Tons per year)

Sector	1998 Tons Generated	2003 Tons Generated	2008 Tons Generated
Residential	16,411	18,339	18,793
Commercial/Industrial	20,052	21,033	21,957
Special	0	0	0
Total Annual Tons	36,463	39,372	40,750

Table II-6: Total Waste Generated (Cubic yards per year)

Sector	1998 CY Generated	2003 CY Generated	2008 CY Generated
Residential	46,888	52,397	53,694
Commercial/Industrial	57,291	60,094	62,734
Special	0	0	0
Total Annual Cubic Yards	**104,180**	**112,491**	**116,428**

** cubic yards were converted from tons using a conversion factor of 700 pounds per cubic yard*

TOTAL WASTE DISPOSAL

Total waste generation for 1998 was projected and compared to actual 1997 landfill disposal data for Emmet County waste plus reported recovery (recycling and composting) totals. Recovery (recycling and composting) was projected for the future and subtracted from total generation projections for the 2003 and 2008 planning years in order to obtain disposal estimates. Future recovery was based on expected growth for existing programs and achievement of stated County recovery goals, resulting in total disposed projections contained in tables II-7 and II-8 below. Actual recovery for 1997 was reported to be 1,897 tons of residential recyclables (primarily through drop-off recycling programs); 2,000 tons of commercial/industrial recovery, and 2,300 tons of yard waste composted (estimated).

Table II-7: Total Disposal (tons per year)

Sector	1998 Tons Disposed	2003 Tons Disposed	2008 Tons Disposed
Residential	12,214	13,049	12,215
Commercial/Industrial	18,052	16,826	15,370
Special	0	0	0
Total Annual Tons	**30,266**	**29,875**	**27,585**

Table II-8: Total Disposal (cubic yards per year)

Sector	1998 CY Disposed	2003 CY Disposed	2008 CY Disposed
Residential	34,897	37,283	34,900
Commercial/Industrial	51,577	48,074	43,914
Special	0	0	0
Total Annual Cubic Yards	**86,474**	**85,357**	**78,814**

** cubic yards were converted from tons using a conversion factor of 700 pounds per cubic yard*

II-2 SOLID WASTE DISPOSAL AREAS

The following includes an inventory and descriptions 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.

- Emmet County Transfer Station
- Carp Lake Transfer Station
- Top Rank Transfer Station
- Cedar Ridge Landfill
- Glen's Landfill
- CES Waters Landfill
- Elk Run Landfill
- Montmorency Landfill
- Cheboygan Transfer Station

Descriptions of these facilities follow.

II-3 SOLID WASTE FACILITY DESCRIPTIONS

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Emmet County Transfer Station

County: Emmet Location: Town T35N Range R5W Section(s) 10

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: Cedar Ridge Landfill

x Public ___ Private Owner: Emmet County (on state land)

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
	closed	x	commercial
x	licensed	x	industrial
	unlicensed	x	construction & demolition
	construction permit		contaminated soils
	open, but closure pending		special wastes *
			other:

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

Site Size:

Total area of facility property:	40	acres
Total area sited for use:	10	acres
Total area permitted:	10	acres
Operating:		acres
Not excavated:		acres

Current capacity:		
Estimated lifetime:		years
Estimated days open per year:	300	days
Estimated yearly disposal volume:	67,000	compacted cubic yards

(if applicable)
Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Carp Lake Transfer Station

County: Emmet Location: Town T38N Range R4W 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: Cedar Ridge Landfill or CES Waters Landfill

x Public ____ Private Owner: Carp Lake Twp

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
____	licensed	____	industrial
NA	unlicensed	____	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure pending	____	special wastes *
		____	other: ____

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

____

Site Size:

Total area of facility property:	not avail.	acres
Total area sited for use:	not avail.	acres
Total area permitted:	____	acres
Operating:	____	acres
Not excavated:	____	acres

Current capacity:	____	
Estimated lifetime:	____	years
Estimated days open per year:	not avail.	days
Estimated yearly disposal volume:	not avail.	

(if applicable)

Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station operated as Type A

Facility Name: Top Rank Transfer Station

County: Charlevoix Location: Town T33N Range R8W 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: Glen's Landfill

____ Public x Private Owner: Top Rank Disposal, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
____	licensed	x	industrial
x	unlicensed	x	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure pending	____	special wastes *
		____	other: ____

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

Site Size:

Total area of facility property:	not avail.	acres
Total area sited for use:	not avail.	acres
Total area permitted:	not avail.	acres
Operating:	____	acres
Not excavated:	____	acres
Current capacity:	____	
Estimated lifetime:	____	years
Estimated days open per year:	not avail.	days
Estimated yearly disposal volume:	not avail.	

(if applicable)
Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Cedar Ridge Landfill

County: Charlevoix Location: Town T33N Range R7W Section(s) 19

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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
____	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

Foundry sand and flyash from East Jordan Iron Works.

Site Size:

Total area of facility property:	120	acres
Total area sited for use:	40	acres
Total area permitted:	40	acres
Operating:	21	acres
Not excavated:	0	acres
Current capacity:	approx. 370,000	bank cubic yards
Estimated lifetime:	2.5	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	311,000	gate cubic yards

(if applicable)
Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Glen's Sanitary Landfill

County: Leelanau Location: Town T28N Range 13W Section(s) 35

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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

Asbestos (non-friable)

Site Size:

Total area of facility property:	460	acres
Total area sited for use:	133	acres
Total area permitted:	133	acres
Operating:	14.8	acres
Not excavated:	89.3	acres
Current capacity:	22,000,000	cubic yards
Estimated lifetime:	60	years
Estimated days open per year:	264	days
Estimated yearly disposal volume:	300,000	gate cubic yards

(if applicable)
Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: City Environmental Svcs., Inc. of Waters (Crawford-Otsego Landfill)

County: Crawford Location: Town T28N Range R8E 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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

not avail.

Site Size:

Total area of facility property:	252.20	acres
Total area sited for use:	252.20	acres
Total area permitted:	79.07	acres
Operating:	9.7	acres
Not excavated:	64.87	acres
Current capacity:	8.2 million	cubic yards
Estimated lifetime:	>20	years
Estimated days open per year:	313	days
Estimated yearly disposal volume:	320,000	gate cubic yards

(if applicable)
Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Elk Run Sanitary Landfill

County: Presque Isle Location: Town T33N Range R2E Section(s) NE1/4 of 5

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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

Asbestos

Site Size:

Total area of facility property:	120	acres
Total area sited for use:	42	acres
Total area permitted:	42	acres
Operating:	approx. 3	acres
Not excavated:	approx. 39	acres

Current capacity:	____	
Estimated lifetime:	≥20	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	48,000-140,000	gate cubic yards

(if applicable)

Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Montmorency-Oscoda Joint Sanitary Landfill

County: Montmorency Location: Town R29N Range R3E 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/Alpena Counties

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
	closed	x	commercial
x	licensed	x	industrial
	unlicensed	x	construction & demolition
x	construction permit		contaminated soils
	open, but closure pending		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:	80	acres
Operating:	3-4	acres
Not excavated:	37	acres
Current capacity:	3,500,000	bank cubic yards
Estimated lifetime:	30	years
Estimated days open per year:	310	days
Estimated yearly disposal volume:	145,000	gate cubic yards

(if applicable)
Annual energy production:

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

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Cheboygan Transfer Station

County: Cheboygan Location: Town 38N Range 2W Section(s) 25

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: CES Waters Landfill

____ Public x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	____	commercial
____	licensed	____	industrial
NA	unlicensed	____	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure pending	____	special wastes *
		____	other: ____

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

____

Site Size:

Total area of facility property:	not avail.	acres
Total area sited for use:	not avail.	acres
Total area permitted:	____	acres
Operating:	____	acres
Not excavated:	____	acres

Current capacity:	____	
Estimated lifetime:	____	years
Estimated days open per year:	not avail.	days
Estimated yearly disposal volume:	not avail.	

(if applicable)

Annual energy production:

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

II-4 SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE

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

Solid Waste Collection Services

Solid waste collection in Emmet County is handled entirely by the private sector, with the exception of some yard waste collection in Petoskey, Harbor Springs and Mackinaw, which is handled by each municipality respectively. Waste collection is subscription based, with several approaches to volume-based pricing currently being used.

Emmet County requires all solid waste haulers operating in the county to meet the terms of a hauler licensing ordinance, with the exception of the townships of Maple River, McKinley, Wawatam, Carp Lake, and the villages of Pellston and Mackinaw City, which have not authorized enforcement of the ordinance in their municipalities. It is estimated that only 12% of the solid waste in Emmet County is not covered by the Solid Waste Ordinance provisions. Requirements of the ordinance include quarterly reporting, disposal of all solid waste at the Emmet County Transfer Station, provision of subscription recycling services in Petoskey and Harbor Springs, establishment of volume based fees, establishment of recycling collection fees at a rate lower than solid waste collection, and availability of corrugated cardboard collection services at a rate lower than solid waste collection.

Service Provider	Service Type	Service Area	Disposal Facility
Walloon Lake Refuse Service (WLRS)	Residential, Commercial; Construction & Demo (C&D)	Southern half of county	Emmet Transfer Station
Top Rank Disposal	Residential, Commercial, Industrial, Construction & Demo	Petoskey, Harbor Springs	Emmet Transfer Station; Top Rank Transfer Station/Glen's Landfill
Waste Management, Inc.	Residential, Commercial, Institutional, Industrial, Construction & Demo	Entire county	Emmet Transfer Station/ Onaway LF

Recycling Collection Services

Service Provider	Service Type	Service Area	Processing Facility
Waste Management, Inc.	Subscription curbside	available to most customers	Emmet Co. Recycling Facility
Emmet County	Drop-off stations; some commercial corrugated	County-wide	Emmet Co. Recycling Facility

Emmet County provides a system of nine recycling drop-off stations located throughout the County and at the transfer station. These unstaffed sites are open 24 hours per day to receive primarily source-separated materials, including three colors of glass, newspaper, phone books,

hard cover books, #2 HDPE plastics, metal cans, magazines, boxboard, office paper and corrugated cardboard. Prominent, bright green roll-off containers are serviced regularly by a county hook-lift truck and brought to the transfer station processing facility.

Although the County ordinance requires that recycling services be offered by waste haulers, very few households have actually contracted for curbside collection (generally offered at about $5 per month). Most residents prefer to use the network of 10 drop-off stations. The County services the drop-offs and materials are brought to the recycling processing facility located at the Emmet County Transfer Facility.

Emmet County also provides a household hazardous waste drop-off program, with a household hazardous waste storage building located at the Transfer Station site. Several monthly drop-off collection dates are scheduled each year. Household batteries are also collected at 10 locations throughout the county, primarily at hardware and small appliance stores.

Emmet County is also the home to a largest end-user of plastics. Petoskey Plastics annually recycles some 1,500 tons of post-consumer plastic bags, primarily low density polyethylene, for manufacture into new bags and automotive components such as car seat covers.

Yard Waste Collection Services

The Cities of Harbor Springs and Petoskey and the Village of Mackinaw City provide fall leaf collection, and Petoskey also contracts out for brush chipping for its residents.

Service Provider	Service Type	Service Area	Disposal Facility
City of Petoskey	Spring/Fall leaf collection; seasonal brush chipping (contracted out)	City of Petoskey	Small leaf compost site in Petoskey
City of Harbor Springs	Fall leaf collection	Harbor Springs	Small leaf compost site in Harbor Springs
Village of Mackinaw City	Fall leaf collection Yard waste collection	Village of Mackinaw City	Burn permit from State for site near sewage treatment plant

II-5 EVALUATION OF DEFICIENCIES AND PROBLEMS

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

Solid waste collection services are strong overall, but are deficient in some parts of the northern and eastern portions of the County (Cross Village, Larks Lake and Springvale Township) where waste haulers report difficulty in servicing sparsely populated areas where residents may not be putting trash out every week and residents report difficulty in securing consistent services. This situation may be contributing to illegal dumping.

Rapid reduction in the total number of competitive waste collection providers will become a major system deficiency and problems will increase as options for service are expected to decrease, and rates are expected to rise.

In the past two years, the number of licensed haulers in Emmet County under separate ownership has decreased from eight to three.

With the recent closure of the operations of the hauler Three Rs, recycling service opportunities for commercial users were reduced. All haulers operating in the County must be licensed and must offer corrugated pick-up service to all commercial clients, as a condition of that license. Participation by local businesses appears to be limited, perhaps due to how these services are being offered by the haulers, the cost of service that is being quoted and, in many cases, lack of knowledge or information about service options. The County drop-off recycling system, including the County's MRF have helped maintain and increase participation in commercial recycling opportunities.

The closure of Three R's also reduced service opportunities for residential curbside recycling. The County drop-off recycling system has worked very well, but curbside recycling is almost non-existent, even though technically haulers must offer the service as part of their licensing agreement.

Another possible developing problem in the system is the consideration being given by some communities to move to regular bulk item pick-up instead of annual spring clean-up programs. The latter have allowed the County, scrap dealers and scavengers to glean recyclable and possibly hazardous items from the waste stream.

Lack of a regional yard waste facility is emerging as a system deficiency. While Petoskey, Harbor Springs, and the Village of Mackinaw City are collecting leaves in the fall, these communities do not have the ability to handle grass clippings. Petoskey has received numerous citizen complaints regarding their processing site. Failure to address the yard waste processing issue will prevent further diversion of this material and could hinder existing operations.

II-6 DEMOGRAPHICS

The following section 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.

Population

The following presents the current and projected population densities and centers for five and ten year periods.

Municipality	1998 population	2003 population	2008 population
Bear Creek township	3,868	4,028	4,172
Bliss township	560	598	635
Carp Lake township	693	739	785
Center township	576	600	622
Cross Village township	233	249	264
Friendship township	686	732	777
Harbor Springs city	1,523	1,472	1,415
Alanson village	726	737	745
Littlefield township	1,894	2,022	2,147
Little Traverse township	2,094	2,235	2,373
Pellston village	621	630	633
McKinley township	668	713	757
Maple River township	770	822	873
Petoskey city	7,025	7,499	7,961
Pleasantview township	435	464	493
Readmond township	434	463	492
Resort township	2,216	2,251	2,275
Springvale township	1,508	1,610	1,709
Mackinaw City village (pt.)	521	542	562
Wawatam township	111	119	126
West Traverse township	1,037	1,054	1,065
EMMET COUNTY TOTAL	**28,200**	**29,580**	**30,880**

II-7 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.

Emmet County is a county with a vision for its long term future development, and the selected solid waste management system relates to that vision.

At 460 square miles, Emmet County is geographically the third smallest county in the State of Michigan. The county is also relatively small in total population, having an estimated 1998 year round population of some 28,200 persons. Resort populations and tourism are major components of the economy, supplemented by a vast array of services, including retail businesses, medical facilities, public services and education. There is a healthy industrial sector, but it has not attained as high a percentage of the total employment as other counties in the region.

Emmet county is comprised of over 309,237 acres, the majority of which is forest land, (Upland 49%, Lowland 12%). Agricultural land also accounts for a large percentage of the county at almost 17 percent of the total acreage compared to only 2.66 percent of the county comprised of Residential, Commercial and Industrial use.

Emmet County	Land use by category					
	Agriculture	Forestry	Industry	Commercial	Residential	Other
Percentage of total	16.82%	61.05%	0.14%	0.25%	2.27%	19.47%
Acres	52,014	188,743	433	773	6,989	60,285

Source: Land Use Acreage by Category Emmet County, Table 3-20 in *Emmet County/City of Petoskey Comprehensive Plan*. July 1997.

While the majority of land base in the county is rural (97.34%), farming, fishing and forestry only account for 2.5% of the employment in the county. The remaining 2.66% of urban acreage contains 97.5% of the economic base.

The county's natural resources have been and continue to be the base from which local community development has built on. With historical roots in hunting, fishing, and timbering, the County's economy gradually evolved into agriculture, mining and commerce with a long tradition of resort and tourist based economic activity. The attractions of the Great Lakes water resources, the rolling landscape, and moderate climate combined, generate a major resort development pattern that is not only historic but accelerated in modern times with the Bay Harbor Development, which occupies some five miles of shoreline on Lake Michigan's Little Traverse Bay.

The vision that Emmet County has for its future is closely tied to the desire of its population to protect and enhance its natural resources. Air and water quality are pivotal to this vision, and it manifests itself in the county's recently adopted Comprehensive Land Use Plan.

The County vision seeks to protect resources as well as to guide land development toward a compact land use pattern, as opposed to low density sprawl on the landscape. Existing community centers have been selected as development resources, around which growth concentrations are being encouraged. The Selected Solid Waste Management System recognizes the goals to protect and enhance water quality and air quality. Adding in county-wide planning processes for land use, it becomes evident that solid waste disposal facilities must compliment the community environment by respecting those resources that are critical to the County's future development.

II-8 SOLID WASTE MANAGEMENT ALTERNATIVES

The Designated Planning Agency (DPA) and the Solid Waste Planning Committee (SWPC) completed a comprehensive strategic planning process that outlined strengths, weaknesses, opportunities, and threats that are part of the current and potential future solid waste management system that services the County. This analysis was used to create goals and objectives which are provided immediately after the Executive Summary. These goals and the strategic analysis formed the basis for developing the solid waste management strategy and the selected alternative that is described in this Plan as the Plan's Enforceable Program and Process as provided for in Part 115, Section 11533 (1) of the Michigan Natural Resources and Environmental Protection Act (NREPA).

In developing the Plan's Enforceable Program and Process the DPA and SWPC first screened out strategies that were technically or economically unsuitable for the County. Certain waste management technologies, incineration, for example, were determined based on historical data for the region to not be economically and technically appropriate for further analysis.

The DPA and SWPC then reviewed a set of remaining solid waste management program strategies in the following eight areas that were viewed as technically and economically feasible:

- Clean Community
- Drop-Off Residential Recycling
- Residential Yard Waste Composting
- Material Transfer and Processing
- Recycling Incentives
- Curbside Residential Recycling
- Commercial Recycling
- Disposal

These program strategies were assembled as six potential System Alternatives that varied by level of landfill diversion, capital and operating cost and implementation requirements:

A: Basic Waste Collection and Disposal Program
B: Level 1 Basic Clean Community and Drop-Off Recycling Program
C: Level 2 Expanded Clean Community and Drop-Off Recycling Program
D: Level 3 Expanded Clean Community and Curbside Recycling Program
E: Level 4 Expanded Clean Community and Comprehensive Recycling Program
F: Level 5 Advanced Recovery System

Each of the six options were then examined based on their key features, advantages, disadvantages, overall performance and cost impact and applicability for the county. These features were evaluated and ranked as they applied to Emmet County.

At this stage in the strategic planning process, some of the Strategic Alternatives were determined to be unsuitable for the County based on the evaluation and ranking of the overall technical and economic feasibility of each approach and its ability to:

- build on the strengths of the local and regional situation,
- address current deficiencies and weaknesses,
- work with organizational approaches that the County is willing to consider,
- be fundable through systems that the County can implement,
- respond to and build community involvement and support,
- be enforceable, and
- set measurable goals that can be tracked to determine progress.

DATA BASE

System Alternatives "A" , "B" & "C" were determined to be economically feasible yet inadequate to reach the adopted Plan's Goals and Objectives which incorporate the hierarchy of "reduce, reuse, recycle" consistent with the state solid waste plan and which targeted significant diversion of solid waste from landfill disposal during the planning period. System Alternative "F" was determined to be unachievable during the 10 year planning time frame given the technical and economic constraints of the existing solid waste management system and the current level of organization of system participants. Two of the strategic alternatives ("D" and "E") were further developed as Emmet County System Alternative 1 and Emmet County System Alternative 2, as described below, for further consideration in the strategic planning process.

EMMET COUNTY SYSTEM ALTERNATIVE 1:

Expanded Clean Community and Curbside Recycling Program is adapted from System Option D. Key features include a Clean Community program that operates at highly effective levels. Incentives to recycle boost program performance, increasing tons and lowering unit costs. Expanded recycling drop-off capabilities at a "flagship" site (the Emmet County Recycling/Transfer Facility) increase options for recovering more materials. Further development of curbside programs for cities, villages and towns increase convenience for a larger sector of the population. Commingled recycling processing capabilities as well as commercial recycling services are further developed and increase diversion. C&D recovery services are more closely coordinated with area service providers. Organics management options exist throughout the year with addition of drop-offs for yard waste. A ban on certain materials being landfilled is targeted for 5 years away and is coordinated between the transfer station and other regional disposal options.

EMMET COUNTY SYSTEM ALTERNATIVE 2

Expanded Clean Community and Comprehensive Recycling Program is adapted from System Option E-l. A comprehensive Clean Community program is operating at high level of effectiveness in all sectors. Bans of certain materials at area landfills (and transfer station) kick recycling programs into high gear for increased tonnage and lower unit costs. Incentives to recycle boost program performance, increasing tons and lowering unit costs. The drop-off recycling system is optimized for some cost savings as more convenient recycling opportunities become readily available. Commercial recycling and C&D recycling begin to broaden business opportunities for diversion. 100% of yard waste is diverted from landfill disposal through collection programs or source reduction techniques. Material Recovery Facility/Transfer Station is further developed to maximize system flexibility for cost savings and landfill diversion serving both residential and commercial sectors as well as special C&D waste streams and regional needs of nearby counties. Innovative techniques for increasing diversion or reducing system costs are explored, building a strong foundation for significantly lower reliance on landfills as the primary means of waste management.

THE PLAN'S SELECTED ALTERNATIVE

The strategic planning process was carried through to final conclusions regarding the program strategies that would make up the Plan's Selected Alternative and become the foundation for the Plan's Enforceable Program as required by statute. The strategic planning process included final evaluation and ranking against the criteria as well as surveying of the views of key stakeholders in the planning process, and others considered to be critical to implementation of the plan - primarily local government officials.

DATA BASE

The DPA and SWPC concluded that implementing "Emmet County System Alternative 1" in a year 1 through 4 Phase 1 leading to a year 5 through 10 Phase 2 development of "Emmet County System Alternative 2" was the optimum choice as the Selected Alternative for the Plan's Enforceable Program. This Selected Alternative is described in the balance of the Plan with further detail provided in Appendix A of the Plan. Appendix B of the Plan contains further detail regarding the System Alternatives that were not selected as part of the Plan's Enforceable Program.

III-1 THE SELECTED SOLID WASTE MANAGEMENT SYSTEM

The Selected Solid Waste Management System (Selected System) is a comprehensive approach to managing Emmet 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 to area residents and businesses. Proposed disposal area 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 B. Following is an overall description of the Selected System.

Through the Strategic Planning Process described in the previous section the County has selected a system alternative that is a combination of Alternative 1 and Alternative 2, modified to tailor the program specifics to the County's needs and phased in to allow system development to take place for the complete 10 year planning period. These are now major components of the Plan's Enforceable Program as further described below.

Following is a more detailed description of the specific program elements that are part of the Selected Alternative and the Plan's Enforceable Program and Process provided for in Part 115, Section 11533 (1) of NREPA. Specific details on who will implement the Plan's Enforceable Program are covered in the next section covering the Plan's Authorized Management Program. The timing of implementation of the Plan's Enforceable Program are then provided in the Plan's Timetable for Implementation that follows. The Plan's Enforceable Program, also to be known as the Emmet County Solid Waste Management Program, implemented jointly by units of government within the county in cooperation with other public agencies and private firms will include features as follows:

Phase 1: During Years 1 through 4 of the Planning Period, the County will implement System Alternative 1 as follows:

EMMET COUNTY SELECTED SYSTEM ALTERNATIVE 1
EXPANDED CLEAN COMMUNITY AND CURBSIDE RECYCLING PROGRAM

Expanded Clean Community and Curbside Recycling Program: Key features include a Clean Community program that operates at highly effective levels making sure that disposal and recycling services are provided in all areas of the County. Incentives to recycle boost program performance, increasing tonnage and lowering unit costs. Expanded recycling drop-off capabilities at the Emmet County Recycling/Transfer Facility increase options for recovering more materials. Further work on development of curbside programs for cities, villages and towns is pursued in order to increase convenience for a large sector of the population. This is made possible by continued upgrading of the capabilities of the Recycling/Transfer facility to allow acceptance of recyclables that are more commingled than current practice allows. Commercial recycling is further developed to increase convenience and diversion. Organics management options are made available throughout the year with addition of one or more drop-offs for yard waste. A ban on the collection and disposal of certain materials as solid waste is evaluated and considered for a target period 5 years away, should specific diversion levels not be reached. This is coordinated between the transfer station as well as the landfill used by the transfer station.

Following is a more detailed description of the program elements that are part of this first phase of the Selected Alternative.

EMMET COUNTY SELECTED SYSTEM ALTERNATIVE 1
DETAILED PHASE 1 SYSTEM COMPONENT DESCRIPTIONS

Clean Community:

Comprehensive solid waste collection services would be made available to all households and businesses in the County. Illegal dumping and litter would be policed with enforcement of violations. Spring/fall cleanup days would be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides. Adopt a "____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be evaluated, refined and continued to be emphasized throughout the County in all solid waste collection arrangements. Recycling collection programs, as well as drop-offs, would add more materials to encourage overall participation in the programs by more citizens and businesses. A ban on collection and disposal of certain items as solid waste would be evaluated and targeted for a period five years away should specified levels of diversion not be reached. This will provide a further incentive for increased adoption and participation in recovery programs.

Drop-Off Residential Recycling:

The existing network of drop-off sites for recycling would continue to be developed with upgrades to continually improve visibility and user convenience. Adjustments would be made to allow material to be collected in a commingled form to make use of the drop-offs easier - coordinated with development of the capability to process this material at the Recycling/Transfer facility. The current Recycling/Transfer facility would be further expanded into a "flagship" drop-off site that is staffed, has an educational component, and collects the largest number of different types of materials.

Curbside Residential Recycling:

Arrangements would be made with haulers through licensing to make sure that curbside recycling with two stream commingled curbside collection would be available on a subscription basis to all residents in a designated curbside service district. Petoskey and Harbor Springs and surrounding densely populated areas would be included.

Residential Yard Waste Composting:

Fall leaf collection would be provided in all villages/towns/cities. Petoskey, Harbor Springs and the Village of Mackinaw City would continue their current fall collection efforts, with smaller communities including Alanson, Pellston and Levering adding fall leaf collection. Backyard composting would be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program would encourage grass cycling. Permanent drop-off options for yard waste would be provided in the County with one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Some wood waste processing would be included with this site. Petoskey may serve as the best location for a "flagship" site that would accept seasonal yard waste throughout the growing season, however, this sort of drop-off could be set up at the transfer station as well.

SELECTED SYSTEM

Commercial Recycling:

The Recycling/Transfer facility would be expanded to serve as a permanent site provided for businesses to drop-off a wide variety of recyclables including commingled containers and commingled paper (as facility modifications are made). A business recycling service district would be established and businesses within the district encouraged to contract for the recycling collection services provided by licensed haulers.

Material Transfer and Processing:

The Recycling/Transfer facility would be expanded to increase its capability to process material that is more commingled than the current system allows. This expanded material recovery facility (MRF) would be available to all recycling collectors in the system and service surrounding counties as well. Commercial recyclables would be able to be tipped at the facility for a reasonable fee that was lower than the tipping fee at area landfills. Some capability would be provided to remove contaminants and small quantities of solid waste from loads of recyclables. Some handling capabilities for construction and demolition material would be added.

Disposal:

Existing landfills in the region would be used with the transfer station serving as the destination for all compacting collection vehicles serving the county, with the exception of Type II solid waste collected within the jurisdiction of municipalities that have not signed on to participate in the Emmet County Solid Waste Ordinance # 20. Arrangements would be made to assure that the most cost effective disposal service was being secured. One or more additional drop-off facilities for solid waste would be available with the transfer station serving as a "flagship" site that took other types of waste (bulky, C&D) as well, recycling these materials to the degree possible.

Phase 2: During Years 5 through 10 of the Planning Period the County will phase in System Alternative 2 as follows:

EMMET COUNTY SELECTED SYSTEM ALTERNATIVE 2
EXPANDED CLEAN COMMUNITY AND COMPREHENSIVE RECYCLING PROGRAM

Key features include a comprehensive Clean Community program expanded to service all sectors of waste generators. Bans on disposal of certain materials at the Recycling/Transfer facility (as well as area landfills) continue to be evaluated on a 1 year implementation timeline in order to continue to boost recycling program tonnage and lower unit costs. Documentation of achievement of specified diversion levels could delay or avoid the bans if desired. Incentives to recycle continue to be strengthened to boost program performance, increasing tons and lowering unit costs. Drop-off recycling system continues to be refined to maximize convenience and to fit with the level of curbside service usage documented in the designated curbside service district. Commercial recycling and C&D recycling begin to broaden business opportunities for diversion. Yard waste diversion from landfill disposal through collection programs or source reduction will reach near 100%. The Material Recovery Facility/Transfer Station is further developed to maximize system flexibility for cost savings and landfill diversion serving both residential and commercial sectors as well as special C&D waste streams and regional needs of nearby counties. Innovative techniques for increasing diversion or reducing system costs are explored, building a strong foundation for significantly lower reliance on landfills as the primary means of waste management.

SELECTED SYSTEM

Following is a more detailed description of the program elements that are part of this second phase of the Selected Alternative.

EMMET COUNTY SELECTED SYSTEM ALTERNATIVE 2
DETAILED PHASE 2 SYSTEM COMPONENT DESCRIPTIONS

Clean Community:

Comprehensive solid waste collection services would continue to be available to all households and businesses in the County. Households in an urban service district would automatically receive the service. Strong illegal dumping and litter policing would continue. Spring/fall cleanup days would be provided in the urban service district with scavenging/trading/reuse encouraged. A permanent hazardous waste collection site would be provided that serviced households as well as agricultural hazardous waste generators and unregulated small quantity hazardous waste generators. Adopt a "____" programs would be further developed with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.

Recycling Incentives:

Proactive education and promotion strategies would encourage responsible solid waste management and strong reduce/reuse/recycle behavior. Pay As You Throw (PAYT) programs would be widespread throughout the County. Recycling collection programs would add more materials to encourage participation by more citizens and businesses. Selected materials (e.g. OCC) would be considered for a solid waste collection and disposal ban targeted for the end of year 5 should specified levels of diversion not be achieved.

Drop-Off Residential Recycling:

The permanent network of drop-off sites for recycling would be open and available for use all the time with continued development of the "flagship" drop-off site at the Material Recovery Facility/Transfer Station, including supporting educational services and collection of additional materials not serviced by the rest of the drop-off system. Collection of construction waste (C&D) would be added at the "flagship" site.

Curbside Residential Recycling:

Two stream commingled curbside recycling would be automatically provided to all residents in an expanded curbside service district around Petoskey and Harbor Springs as well as resort areas and subdivisions. Use of subscription service outside this district would be strongly encouraged.

Residential Yard Waste Composting:

Seasonal yard waste collection including fall leaf collection would be automatically provided to an urban service district. Backyard composting would be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program would encourage grass cycling. One or more permanent drop-off options for yard waste would be provided in the County with one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Selected processing of food waste would be included as well as clean wood waste processing. A central processing site would need to be located and developed.

SELECTED SYSTEM

Commercial Recycling:

The Material Recovery Facility/Transfer Station would continue to be expanded to service businesses that would drop-off a wide variety of recyclables including commingled containers and commingled paper. A business recycling service district would be developed and businesses within the district assisted in arranging an umbrella contract for services.

Material Transfer and Processing:

The Material Recovery Facility/Transfer Station would continue to be expanded to provide services to all recycling collectors in the system. Consideration would be given to upgrading the transfer station by equipping it with a high density (900 to 1,000 lbs/cy) compaction system to allow longer distance waste transfer. The facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC. Commercial recyclables would be able to be tipped at the facility for a reasonable fee that was lower than the tipping fee at area landfills. Mixed loads of commercial solid waste that have a high percentage of recyclable materials would be sorted. Handling capabilities for construction and demolition materials would be expanded.

Disposal:

Compacting collection vehicles would haul to the transfer station, with the exception of Type II solid waste collected within the jurisdiction of municipalities that have not signed on to participate in the Emmet County Solid Waste Ordinance # 20. The Transfer Station then would ship waste to landfills in Northern Michigan that offered the most competitive rates. One or more drop-off facilities for solid waste would be available to complement the "flagship" site at the Material Recovery Facility/Transfer Station that would take other types of waste (bulky, C&D, etc.).

The remainder of the descriptions that follow cover, as required by the Plan Format, the details regarding specific components of the Plan's Enforceable Program and Process, that answer the "who, what, when, where, and how" aspects of the Selected Alternative, including:

- Solid Waste Efforts including:
  - Current and Future Import/Export Authorization and Related Conditions
  - Disposal Areas to be Used in the Plan's Enforceable Program
  - Solid Waste Collection Services and Transportation

- Resource Conservation Efforts, including:
  - Projections of Diversion in Table III-1
  - Waste Reduction, Recycling and Composting Programs
  - Volume Reduction Techniques

- Resource Recovery and Recycling Efforts, including:
  - Overview of Resource Recovery and Recycling Programs
  - Recycling and Composting
  - Details of Current and Future Programs in Tables III-3 through III-8
  - Identification of Resource Recovery Management Entities
  - Projections of Diversion in Table III-9
  - Market Availability in Table III-10
  - Educational and Informational Programs

SELECTED SYSTEM

These aspects of the Plan's Enforceable Program provide sufficient export capacity and specific disposal areas identified to document the necessary 10 years disposal capacity for the Planning Period. Further details on the "who, what, when, where, and how" of the Plan's Enforceable Program then continue with the following sections:

- Timetable for Selected System Implementation
- Siting Review Procedures
- Solid Waste Management Components
- Identification of Responsible Parties
- Local Ordinances and Regulations Affecting Solid Waste Disposal
- Capacity Certifications

II-2 IMPORT AUTHORIZATION

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

Table 1-A: CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]
Emmet	Charlevoix	NA	NA	NA	NA
Emmet	Montmorency	NA	NA	NA	NA
Emmet	Oscoda	NA	NA	NA	NA
Emmet	Crawford	NA	NA	NA	NA
Emmet	Presque Isle	NA	NA	NA	NA
Emmet	Cheboygan	NA	NA	NA	NA
Emmet	Leelanau	NA	NA	NA	HHW collection, recycling and education as defined in Reciprocal Agreement

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

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

2 Authorization indicated by P = Primary Disposal; C =Contingency Disposal; * = 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[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]
Emmet	Charlevoix	NA	NA	NA	P*
Emmet	Montmorency	NA	NA	NA	P*
Emmet	Oscoda	NA	NA	NA	P*
Emmet	Crawford	NA	NA	NA	P*
Emmet	Presque Isle	NA	NA	NA	P*
Emmet	Cheboygan	NA	NA	NA	P*

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

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

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

Table 1-B Attachments Section

FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE CONTINGENT ON NEW FACILITIES BEING SITED

* Condition for Future Imports to the County Selected Site:

Up to 100% of Type II and Type III solid waste will be able to be imported from a listed county to a future landfill to be located at the County Selected Site (see Siting Review Procedures Section) and then only if the exporting county and Emmet County sign an intergovernmental contract that includes two key provisions; 1) exporting county must have arranged to provide comprehensive waste management services to their residential households and businesses including recycling services, composting services, household hazardous waste collection services and business waste assessment services; and 2) a specific authorized daily and annual quantity of waste to be imported is negotiated, potentially up to 100% of the Type II and Type III solid waste generated in the exporting county.

EXPORT AUTHORIZATION

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

Table 2-A: CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]
Charlevoix	Emmet	NA	NA	NA	P*
Crawford	Emmet	NA	NA	NA	P*
Montmorency	Emmet	NA	NA	NA	P*
Presque Isle	Emmet	NA	NA	NA	P*
Leelanau	Emmet	NA	NA	NA	P*
Chippewa	Emmet	NA	NA	NA	P*
Manistee	Emmet	NA	NA	NA	P*
Wexford	Emmet	NA	NA	NA	P*
Bay	Emmet	NA	NA	NA	P*
Clare	Emmet	NA	NA	NA	P*
Osceola	Emmet	NA	NA	NA	P*
Muskegon	Emmet	NA	NA	NA	P*
Ottawa	Emmet	NA	NA	NA	P*
Kent	Emmet	NA	NA	NA	P*
Montcalm	Emmet	NA	NA	NA	P*

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

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

2 Authorization indicated by P = Primary Disposal; C =Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section on the following page.

Table 2-A Attachments Section
CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

* Condition for Current Exports:

Export of Type II and Type III waste will be allowed to the identified counties only if such waste collected for export is collected in compliance with all applicable laws, ordinances, rules and regulations of the Emmet County Solid Waste Management System, Ordinance and Intergovernmental Agreement consistent with the Plan's Enforceable Program. Construction and demolition waste as well as special industrial waste shall be exempt from these conditions. All other wastes will be exempt from these conditions only on a temporary basis in the event of a temporary shutdown of the solid waste transfer facilities provided for in the selected alternative of the Plan's Enforceable Program and then only until such time that those facilities again begin to operate. The export of solid waste out of the State of Michigan shall be allowed as provided by federal or state law.

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

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME[1]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[2]
All Michigan Counties	Emmet	NA	NA	NA	P *

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

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

2 Authorization indicated by P = Primary Disposal; C =Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section on the following page.

Table 2-B Attachments Section
FUTURE EXPORT VOLUME AUTHORIZATION OF SOLID WASTE CONTINGENT ON NEW FACILITIES BEING SITED

* Condition for Future Exports:

Export of Type II and Type III waste will be allowed to the identified counties only if such waste collected for export is collected in compliance with all applicable laws, ordinances, rules and regulations of the Emmet County Solid Waste Management System, Ordinance and Intergovernmental Agreement consistent with the Plan's Enforceable Program. Construction and demolition waste as well as special industrial waste shall be exempt from these conditions. All other wastes will be exempt from these conditions only on a temporary basis in the event of a temporary shutdown of the solid waste transfer facilities provided for in the selected alternative of the Plan's Enforceable Program and then only until such time that those facilities again begin to operate. The export of solid waste out of the State of Michigan shall be allowed as provided by federal or state law.

III- 4 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 Emmet County for the next five years and, if possible, the next ten years. The following pages 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.

Export of Type II and Type III waste to any of the facilities identified below that are located outside of Emmet County will be allowed only if such waste collected for export is collected in compliance with all applicable laws, ordinances, rules and regulations of the Emmet County solid waste management system.

Type II Landfill:

Cedar Ridge Landfill

Dafter Sanitary Landfill

Northern Oaks Recycling/Disposal Facility

CES Waters Landfill

Glen's Sanitary Landfill

Montmorency-Oscoda Sanitary Landfill

Elk Run Sanitary Landfill

Wexford County Landfill

Westside Landfill

Harland's Landfill

Venice Park Landfill

Saginaw Valley Landfill

Sexton/White Feather Landfill

Kent County DPW

White Lake Landfill

Autumn Hills Landfill

Ottawa County Farms Landfill

Central Landfill

Type A Transfer Facility:

Emmet County Transfer Station

Cheboygan Transfer Station

Type B Transfer Facility:

Carp Lake Transfer Station

SELECTED SYSTEM

Type III Landfill:	Processing Plant:
	Emmet County Recycling Facility
Incinerator:	Waste Piles:
Waste-to-Energy Incinerator:	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 Emmet County's solid waste are in the Attachments Section.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Emmet County Transfer Station

County: Emmet Location: Town T35N Range R5W Section(s) 10

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: Cedar Ridge Landfill

x Public ____ Private Owner: Emmet County (on state land)

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
	closed	x	commercial
x	licensed	x	industrial
	unlicensed	x	construction & demolition
	construction permit		contaminated soils
	open, but closure pending		special wastes *
			other: ____

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

Site Size:

Total area of facility property:	40	acres
Total area sited for use:	10	acres
Total area permitted:	10	acres
Operating:		acres
Not excavated:		acres
Current capacity:		
Estimated lifetime:		years
Estimated days open per year:	300	days
Estimated yearly disposal volume:	67,000	compacted cubic yards

(if applicable)
Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Carp Lake Transfer Station

County: Emmet Location: Town T38N Range R4W 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: Cedar Ridge Landfill or CES Waters Landfill

x Public ____ Private Owner: Carp Lake Twp

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
____	licensed	____	industrial
NA	unlicensed	____	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure pending	____	special wastes *
		____	other: ____

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

____

Site Size:

Total area of facility property:	not avail.	acres
Total area sited for use:	not avail.	acres
Total area permitted:	____	acres
Operating:	____	acres
Not excavated:	____	acres

Current capacity:	____	
Estimated lifetime:	____	years
Estimated days open per year:	not avail.	days
Estimated yearly disposal volume:	not avail.	

(if applicable)

Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Cheboygan Transfer Station

County: Cheboygan Location: Town 38N Range 2W Section(s) 25

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: CES Waters Landfill

____ Public x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	____	commercial
____	licensed	____	industrial
NA	unlicensed	____	construction & demolition
____	construction permit	____	contaminated soils
____	open, but closure pending	____	special wastes *
		____	other: ____

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

Site Size:

Total area of facility property:	not avail.	acres
Total area sited for use:	not avail.	acres
Total area permitted:	____	acres
Operating:	____	acres
Not excavated:	____	acres

Current capacity:	____	
Estimated lifetime:	____	years
Estimated days open per year:	not avail.	days
Estimated yearly disposal volume:	not avail.	

(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: Cedar Ridge Landfill

County: Charlevoix Location: Town T33N Range R7W Section(s) 19

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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
____	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

Foundry sand and flyash from East Jordan Iron Works.

Site Size:

Total area of facility property:	120	acres
Total area sited for use:	40	acres
Total area permitted:	40	acres
Operating:	21	acres
Not excavated:	0	acres

Current capacity:	approx. 370,000	bank cubic yards
Estimated lifetime:	2.5	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	311,000	gate cubic yards

(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: Dafter Sanitary Landfill

County: Chippewa Location: Town T46N Range R1W Section(s) 33

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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	____	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

Site Size:

Total area of facility property:	87	acres
Total area sited for use:	43	acres
Total area permitted:	43	acres
Operating:	13	acres
Not excavated:	10	acres

Current capacity:	not avail.	
Estimated lifetime:	8-10	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	123,000	gate cubic yards

(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: **Northern Oaks Recycling and Disposal Facility**

County: Clare Location: Town T19N Range R4W Section(s) 32

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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
____	construction permit	x	contaminated soils
____	open, but closure pending	____	special wastes *
		x	other: water treatment filter cake

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

____

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	76	acres
Total area permitted:	76	acres
Operating:	19	acres
Not excavated:	57	acres
Current capacity:	8,755,100	cubic yards
Estimated lifetime:	43	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	409,000	gate cubic yards

(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: City Environmental Svcs., Inc. of Waters (Crawford-Otsego Landfill)

County: Crawford Location: Town T28N Range R8E 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 x Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
___	closed	x	commercial
x	licensed	x	industrial
___	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
___	open, but closure pending	x	special wastes *
		___	other: ___

* Explanation of special wastes, including a specific list and/or conditions:
not avail.

Site Size:

Total area of facility property:	252.20	acres
Total area sited for use:	252.20	acres
Total area permitted:	79.07	acres
Operating:	9.7	acres
Not excavated:	64.87	acres

Current capacity:	8.2 million	cubic yards
Estimated lifetime:	>20	years
Estimated days open per year:	313	days
Estimated yearly disposal volume:	320,000	gate cubic yards

(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: **Glen's Sanitary Landfill**

County: Leelanau Location: Town T28N Range 13W Section(s) 35

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 x Private Owner: Waste Management. Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

* Explanation of special wastes, including a specific list and/or conditions:
Asbestos (non-friable)

Site Size:

Total area of facility property:	460	acres
Total area sited for use:	133	acres
Total area permitted:	133	acres
Operating:	14.8	acres
Not excavated:	89.3	acres

Current capacity:	22,000,000	bank cubic yards
Estimated lifetime:	60	years
Estimated days open per year:	264	days
Estimated yearly disposal volume:	300,000	gate cubic yards

(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: Montmorency-Oscoda Joint Sanitary Landfill

County: Montmorency Location: Town R29N Range R3E 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/Alpena Counties

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	____	contaminated soils
____	open, but closure pending	____	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:	80	acres
Operating:	3-4	acres
Not excavated:	37	acres
Current capacity:	3,500,000	cubic yards
Estimated lifetime:	30	years
Estimated days open per year:	310	days
Estimated yearly disposal volume:	145,000	gate cubic yards

(if applicable)
Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Elk Run Sanitary Landfill

County: Presque Isle Location: Town T33N Range R2E Section(s) NE1/4 of 5

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 x Private Owner: Republic

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

Site Size:

Total area of facility property:	120	acres
Total area sited for use:	42	acres
Total area permitted:	42	acres
Operating:	approx. 3	acres
Not excavated:	approx. 39	acres

Current capacity:	____	
Estimated lifetime:	>20	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	8,000-140,000	gate cubic yards

(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: Manistee County Landfill **(Harland's)**

County: Manistee Location: Town T21N Range R16W Section(s) 32

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 x Private Owner: Allied

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
x	construction permit	x	contaminated soils
____	open, but closure pending	x	special wastes *
		____	other: ____

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

Site Size:

Total area of facility property:	336	acres
Total area sited for use:	40	acres
Total area permitted:	40	acres
Operating:	40	acres
Not excavated:	13	acres

Current capacity:	1,700,000	bank cubic yards
Estimated lifetime:	14	years
Estimated days open per year:	250	days
Estimated yearly disposal volume:	200,000	gate cubic yards

(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: **Wexford County Landfill**

County: Wexford Location: Town T23N Range R9W Section(s) 33/34

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: Wexford County Department of Public Works

Operating Status (check)		Waste Types Received (check all that apply)	
x	open	x	residential
____	closed	x	commercial
x	licensed	x	industrial
____	unlicensed	x	construction & demolition
____	construction permit	x	contaminated soils
____	open, but closure pending	____	special wastes *
		____	other: ____

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

____

Site Size:

Total area of facility property:	146	acres
Total area sited for use:	51	acres
Total area permitted:	51	acres
Operating:	4	acres
Not excavated:	0	acres

Current capacity:	2,000,000	
Estimated lifetime:	12-14	years with proposed vertical expansion
Estimated days open per year:	260	days
Estimated yearly disposal volume:	220,000	gate cubic yards

(if applicable)

Annual energy production:

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

III-5 SOLID WASTE COLLECTION SERVICES & 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.

In Phase 1 of the Plan's Enforceable Program (1998-2003) comprehensive solid waste collection services will be made available to all households and businesses in the County. Proactive steps will be taken to reduce the incidence of illegal dumping and litter and target areas will be policed with enforcement of violations. Spring/fall cleanup days will be provided in more urban areas with scavenging/trading/reuse encouraged and recycling of as many materials left as possible. Household hazardous waste collection services will be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides. Adopt a "____" programs will be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests. A ban on the collection and disposal of certain items as solid waste will be evaluated and targeted for a period five years away, should specified levels of diversion not be reached -- providing incentive for increased adoption of and participation in recovery programs.

All Type II solid waste collected in the County will be transported to the Recycling/Transfer facility. Existing landfills in the region will be used with the transfer station serving as the destination for all compacting collection vehicles serving the county. An exception to this requirement may be made for the Type II solid waste collected within the jurisdiction of municipalities that have not signed an Intergovernmental Agreement with the County authorizing their participation in the Emmet County Solid Waste Ordinance # 20. Competitive bidding will be used to assure that the most cost effective disposal service is being secured by the Recycling/Transfer facility. Waste export by other sources within the County will be authorized as a primary disposal option only if the material is exempt under the terms of this Plan (construction/demolition material and special industrial waste) or if the material is first tipped at the MRF/TS. The County may arrange for one or more additional drop-off facilities for solid waste that will be available with the transfer station serving as a "flagship" site that takes other types of waste (bulky, C&D) as well, recycling these materials to the degree possible.

In Phase II of the Plan's Enforceable Program (2004-2008), the comprehensive solid waste collection services including recycling and yard waste collection will continue to be available to all households and businesses in the County. Households in an urban service district will automatically receive these services. Strong illegal dumping and litter policing will continue. Spring/fall cleanup days will be provided in the urban service district with scavenging/trading/reuse encouraged. A permanent hazardous waste collection site will be provided that services households as well as agricultural hazardous waste generators and unregulated small quantity hazardous waste generators. Adopt a "____" programs will be further developed with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests. Selected materials (e.g. OCC) will be considered for a solid waste collection and disposal ban targeted for the end of year 5 of Phase I, if target levels of diversion aren't achieved.

The Emmet County Transfer Facility will be upgraded by equipping it with a high density (900 to 1,000 lbs/cy) compaction system to allow longer distance waste transfer. Mixed loads of commercial solid waste that have a high percentage of recyclable materials will be sorted with the contaminants removed from the recyclables and transferred with the rest of the solid waste.

During Phase II, all Type II solid waste collected in the County will continue to be transported to the Recycling/Transfer facility. An exception may be made for the Type II solid waste collected within the jurisdiction of municipalities that have not signed on to participate in the Emmet County Solid Waste Ordinance # 20. The transfer station will ship waste to landfills in Northern Michigan that offer the most competitive rates. The County will arrange for one or more drop-off facilities for solid waste that will be available to complement the "flagship" site at the Material Recovery Facility/Transfer Station.

SELECTED SYSTEM

Nothing in this section is intended to prohibit the transport of solid waste generated in Emmet County out of the State of Michigan as provided by federal or state law.

III-6 RESOURCE CONSERVATION EFFORTS:

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

The Resource Conservation Efforts will use education and incentives to encourage source reduction, reuse and recycling with the following projected impact in measurable programs and additional impact in source reduction that cannot be measured.

Table III-1: Resource Conservation Effort

Table III-1: Resource Conservation Effort **Description**	**Est. Diversion Tons/Yr** Current	5th yr	10th yr
Recycling Drop-off	1,877	1,950	2,000
Curbside recycling	20	140	1,350
Commercial recycling	2,000	4,207	6,587
Yard waste collection	2,300	3,200	3,200
Household hazardous waste collection	5	6	7
Emmet County Totals	**6,202**	**9,503**	**13,144**
% of waste stream diverted	**17.2%**	**24.%**	**32%**

III-7 WASTE REDUCTION, RECYCLING, & COMPOSTING:

VOLUME REDUCTION TECHNIQUES

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

The Plan's Enforceable Program provides for high compaction waste transfer in order to increase the density of loads that are transported to landfills, thus lowering tip fees at those landfills and/or reducing transportation costs. This will reduce the gate yards taken in at these landfills but will not impact bank yards (i.e.: estimated air space conserved in cubic yards) since the final compaction density at landfills is not expected to change. Landfills will use less energy, fuel, etc. to reach those densities, however, which does provide some economic benefit to the landfill owner.

Table III-2 Volume Reduction Techniques *Not Applicable*

OVERVIEW OF RESOURCE RECOVERY AND RECYCLING 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.

Total waste generation for Emmet County was calculated using pounds per person per day (residential) and pounds per employee per day (commercial and industrial) models. These numbers were compared and reconciled with actual disposal and recovery data to determine a final generation number. Using population projected out over the planning period (adjusted for seasonal population variation) waste generation was then estimated. The County then evaluated various material recovery and waste reduction strategies, and compared actual recovery rates for the current system against what may be possible given new program implementation. With target recovery goals in mind (25+ percent for 2003 and 30+ percent for 2008), the County was able to determine target material tonnage for recovery and then matched actual programs and recovery benchmarks from other communities, needed to meet those goals.

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. The tables on pages III-35, 36, & 37 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. The second group of three tables on pages III-38, 39, & 40 list the recycling, composting, and source separation of hazardous materials programs that are proposed in the future for the County. It is not the intent of this Plan's update to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

Recycling

XX 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:

The following recycling systems would be developed:

Drop-Off Residential Recycling:

The existing network of drop-off sites for recycling will continue to be developed with upgrades to continually improve visibility and user convenience. Adjustments will be made to allow material to be collected in a commingled form to make use of the drop-offs easier - coordinated with development of the capability to process this material at the Recycling/Transfer facility . The current Recycling/Transfer facility will be further expanded into a "flagship" drop-off site that is staffed, has an educational component, and collects the largest number of different types of materials.

SELECTED SYSTEM

Curbside Residential Recycling:

Arrangements will be made with haulers through licensing to make sure that curbside recycling with two stream commingled curbside collection will be available on a subscription basis to all residents in a designated curbside service district. Petoskey and Harbor Springs and surrounding densely populated areas will be included. In the second five years of the program, an effort will be made to shift from these subscription services to contract curbside recycling services for all households in an urban service district that would include Petoskey and Harbor Springs.

Commercial Recycling:

The Recycling/Transfer facility will be expanded to serve as a permanent site provided for businesses to drop-off a wide variety of recyclables including commingled containers and commingled paper (as facility modifications are made). A business recycling service district will be established and businesses within the district encouraged to contract for the recycling collection services provided by licensed haulers.

Material Transfer and Processing:

The Recycling/Transfer facility will be expanded to increase its capability to process material that is more commingled than the current system allows. This expanded material recovery facility (MRF) will be available to all recycling collectors in the system and service surrounding counties as well. Commercial recyclables will be able to be tipped at the facility under fee or payment arrangements that are lower than the tipping fee at area landfills. Some capability will be provided to remove contaminants and small quantities of solid waste from loads of recyclables.

SELECTED SYSTEM

Composting

XX 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:

Residential Yard Waste Composting:

Seasonal yard waste collection including fall leaf collection will be automatically provided to an urban service district. Backyard composting will be encouraged through distribution of backyard bins at discount rates. A similar mulching mower program will encourage grass cycling. Permanent drop-off options for yard waste will be provided throughout the County with one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Selected processing of food waste may be included as well as clean wood waste processing. A central processing site will be located and developed.

SELECTED SYSTEM

Clean Community

XX 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:

Clean Community Programs:

A permanent hazardous waste collection site will be provided that services households, agricultural hazardous waste generators and unregulated small quantity hazardous waste generators.

TABLE III-1

RECYCLING: Based on Current Programs

Program Name	Service Area	Public or Private	Collection Point[2]	Collection Frequency[3]	Materials[4]	Program Management Responsibilities[1] Development	Operation	Evaluation
10-station drop-off	County-wide	Public	d	d	A, B, C, D, E, L, F1	3	3	3
Subscription curbside	Limited	Private	c	b	A, B, C, D, E, L, F1	5	5	5

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

[1] Program Management Responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=City/County Departments of Public Works; 4= Environmental Group; 5=Private Owner/Operator; 6=Other

[2] Collection Point: c=curbside; d=drop-off; o=onsite

[3] Collection Frequency: d=daily; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

[4] Material Types: A=Plastics; B=Newspaper; C= Corrugated Containers; D=Other paper; E=Total Glass; F1=Other materials; G=Grass and Leaves; H=Wood Waste; I=Construction & Demolition; J=Food & Food Processing; K=Tires; L=Total Metals

TABLE III-2

COMPOSTING:

Program Name	Service Area	Public or Private	Collection Point[2]	Collection Frequency[3]	Materials[4]	Program Management Responsibilities[1] Development	Operation	Evaluation
City of Harbor Springs	City of Harbor Springs	Public	c	Fa	L	3	3	3
City of Petoskey	City of Petoskey	Public	c	Sp/Fa	L, Br.	3	3	3
Village of Mackinaw City	Village of Mackinaw City	Public	c	Fa	L, Br.	3	3	3

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

[1] Program Management Responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=City/County Departments of Public Works; 4= Environmental Group; 5=Private Owner/Operator; 6=Other

[2] Collection Point: c=curbside; d=drop-off; o=onsite

[3] Collection Frequency: d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

[4] Material Types: G=Grass; L=Leaves F=Food; Br=Brush; W=Wood; P=Paper; S=Municipal Sewage Sludge; A=Animal Waste/Bedding; M=Municipal Solid Waste

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.

Program Name	Service Area	Public or Private	Collection Point[2]	Collection Frequency[3]	Materials[4]	Program Management Responsibilities[1] Development	Operation	Evaluation
Emmet County Household Hazardous Waste Collection Program	County-wide	Public	d	4 times per year, by appt. Sp, Su	AR, B1, B2, C, AN, A, P, PS, PH, OT, H, U	3	3	3
Battery collection	County-wide	Public	d	d	B2	3	3	3

[1] Program Management Responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=City/County Departments of Public Works; 4= Environmental Group; 5=Private Owner/Operator; 6=Other

[2] Collection Point: c=curbside; d=drop-off; o=onsite

[3] Collection Frequency: d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

[4] Materials: 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 Products; U=Used Oil; OT=Other Materials

TABLE III-4

PROPOSED RECYCLING:

Program Name	Service Area	Public or Private	Collection Point[2]	Collection Frequency[3]	Materials[4]	Program Management Responsibilities[1] Development	Operation	Evaluation
10-station drop-off	County-wide	Public	d	d	A, B, C, D, E, L	3	3	3
Subscription curbside (years 1-5)	Limited	Private	c	w	A, B, C, D, E, L	3,5	3,5	3,5
Contract curbside (years 1-5)	Urban areas	Private	c	w	A, B, C, D, E, L	3,5	3,5	3,5
Expanded commercial collection	Business districts	Public/ Private	o	w, bi, m	B, C, D, F1, H, L	3,4 or 5	3,4 or 5	3,5
Construction/ Demolition drop-off	County-wide	Public/ Private	d	d	I, H	3 or 5	3 or 5	3,5

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

[1] Program Management Responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=City/County Departments of Public Works; 4= Environmental Group; 5=Private Owner/Operator; 6=Other

[2] Collection Point: c=curbside; d=drop-off; o=onsite

[3] Collection Frequency: d=daily; w= weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

[4] Material Types: A=Plastics; B=Newspaper; C= Corrugated Containers; D=Other Paper; E=Total Glass; F1=Other Materials; G=Grass and Leaves; H=Wood Waste; I=Construction & Demolition; J=Food & Food Processing; K=Tires; L=Total Metals

TABLE III-5

PROPOSED COMPOSTING:

Program Name	Service Area	Public or Private	Collection Point[2]	Collection Frequency[3]	Materials[4]	Program Management Responsibilities[1] Development	Operation	Evaluation
City of Harbor Springs	City of Harbor Springs	Public	c	Fa	L	3	3	3
City of Petoskey	City of Petoskey	Public	c	Sp/Fa	L, Br.	3	3	3
Village of Mackinaw City	Village of Mackinaw City	Public	c	Fa	L, Br.	3	3	3
Fall leaf pickup	Urban areas	Public/ Private	c	Fa	L, Br.	3	3	3
Yard waste drop-off	County-wide	Public	d	Sp, Su	L, Br, W	3	3	3

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

[1] Program Management Responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=City/County Departments of Public Works; 4= Environmental Group; 5=Private Owner/Operator; 6=Other

[2] Collection Point: c=curbside; d=drop-off; o=onsite

[3] Collection Frequency: d=daily; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

[4] Material Types: G=Grass; L=Leaves F=Food; Br=Brush; W=Wood; P=Paper; S=Municipal Sewage Sludge; A=Animal Waste/Bedding; M=Municipal Solid Waste

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

Program Name	Service Area	Public or Private	Collection Point[2]	Collection Frequency[3]	Materials[4]	Program Management Responsibilities[1] Development	Operation	Evaluation
Emmet County Household Hazardous Waste Collection Program	County-wide	Public	d	6 times per year, by appt.	AR, B1, B2, C, AN, A, P, PS, PH, H, OT, U	3	3	3
Battery collection	County-wide	Public	d	d	B2	3	3	3

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

[1] Program Management Responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=City/County Departments of Public Works; 4= Environmental Group; 5=Private Owner/Operator; 6=Other

[2] Collection Point: c=curbside; d=drop-off; o=onsite

[3] Collection Frequency: d=daily; w=weekly; b=bi-weekly; m=monthly; Sp=Spring; Su=Summer; Fa=Fall; Wi=Winter

[4] Materials: 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 Products; U=Used Oil; OT=Other Materials as identified

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES:

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

County Department of Public Works (DPW), Public Works Director:

This Department has management responsibilities for promotion and education for all resource recovery programs; operation of the household hazardous waste collection program; oversight and operation of the Solid Waste Transfer Facility; oversight and maintenance for all recycling collection/processing and marketing operations using contracts, franchises or other mechanisms as necessary; administration of the Solid Waste Ordinance requiring licensing and regulation of haulers; contracting and/or franchising for disposal and transportation service for solid waste and household hazardous waste; and provision of general information to the public about solid waste. The DPW also is the responsible agency for administering the solid waste plan.

Public Works Board:

This board has overall fiscal responsibility for management of all solid waste and recycling programs; the Building Committee within the Public Works Board is an oversight committee for new construction or expansion.

Various Service Providers including Waste Management, Inc (USA Waste, United Waste) and Renewable Waste, Inc.:

These private sector and non-profit sector service providers will deliver solid waste and recycling services under the terms of the Plan's Enforceable Program as contained in the Emmet County Solid Waste Management System and organized under the County Ordinance, Rules/Regulations and related contracts. Resource recovery management services from these entities are expected to include corrugated and office paper collection routes for businesses throughout the County; collection of residential, commercial, industrial solid waste; collect and transport solid waste to Solid Waste Transfer Station; and transfer of solid waste from the County Transfer Facility to the landfill.

Various Service Providers for Construction and Demolition Material Collection:

These private sector and non-profit sector service providers may deliver on-site collection of construction and demolition material throughout the county.

Various Landscaping/Nursery Companies:

These private sector and non-profit sector service providers may deliver yard waste collection services and serve as hosts for yard waste drop-off sites.

Cities of Harbor Springs and Petoskey and the Village of Mackinaw City:

These municipalities will operate leaf collection and composting programs and operate wastewater treatment plants.

Environmental Groups:

Tip of the Mitt Watershed Council will help with education and staffing for collection at household hazardous waste collection days.

MSU Cooperative Extension Service will provide education on composting, disposal and recycling of home and agricultural toxics.

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.

Collected Material:	Projected Annual Tons Diverted:*			Collected Material:	Projected Annual Tons Diverted:*		
	Year 0	Year 5	Year 10		Year 0	Year 5	Year 10
A. TOTAL PLASTICS	80	126	199	G. GRASS AND LEAVES	2300	3200	3200
B. NEWSPAPER	795	1259	1993	H. WOOD WASTE			
C. CARDBOARD	1710	2708	4285	I. CONSTR. & DEMO.	0	800	1500
D. OTHER PAPER	758	1197	1900	J. FOOD PROCESSING			
E. GLASS	318	504	797	K. TIRES			
F. OTHER MATERIALS	199	992	1,410	L. TOTAL METALS	119	189	299

*numbers are for residential/commercial recycling only

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.

Note that recyclable materials are commodity products and that the actual movement of these materials to end-markets will fluctuate during the course of the plan. In some cases these commodities will only be used in-state due to the weight of the material, high transportation costs and relatively low value per ton. This is frequently the case for yard waste, wood waste and other similar materials. Other materials that have higher levels of demand worldwide will, from time to time, be shipped out-of-state and in some cases out of the country and overseas, as market conditions dictate.

Collected Material:	In-State Markets	Out-of-State Markets	Collected Material	In-State Markets	Out-of-State Markets
A. TOTAL PLASTICS	100 %		G. GRASS AND LEAVES	100 %	
B. NEWSPAPER	100 %		H. WOOD WASTE	100 %	
C. CARDBOARD	100 %		I. CONSTR. & DEMO.	100 %	
D. OTHER PAPER	100 %		J. FOOD PROCESSING	100 %	
E. GLASS	100 %		K. TIRES	100 %	
F. OTHER MATERIALS	100 %		L. TOTAL METALS	100 %	

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 Emmet County.

Program Topic	Delivery Medium	Targeted Audience	Program Provider
Recycling	Mascot: Emmet the Recycle Robot	General public	Designated Planning Agency (DPA)
Recycling/general solid waste education	Displays at community event	General public	DPA
Recycling, household hazardous waste	Radio public service announcements	General public	DPA
Household Hazardous Waste	Newspaper ads for collection schedules	General public	DPA
Resource exchange for Household Hazardous Waste	Classified ads in newspaper	General public	DPA
General solid waste education	School presentations	School-age children	DPA
General solid waste education, recycling	Tours at Transfer Facility/Recycling Processing Facility	General public; students	DPA
Resource conservation, recycling	Presentations to community groups	General public; businesses	DPA
All programs	Newsletter (several times per year)	General public	DPA
All programs	Internet Web Based Information	General public	DPA
All programs	Brochures, flyers	General public; businesses	DPA, Cooperative Extension
Household hazardous waste	Volunteer program to assist with collection program	Volunteers	DPA

III-8 TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

This timetable is a guideline to implement components of the Plan's Enforceable Program. The Timeline gives a range of time in which the component will be implemented such as "1999-2000" or "On-going." Timelines may be adjusted later, if necessary.

Management Components	Timeline
1) Develop/Adopt Implementation Action Plan	1999
2) Amend Intergovernmental Agreements/Ordinance/Rules/Regs	1999
3) Preliminary Program Specifications for Planned Ph I Programs	1999
4) Establish Budgets for Planned Phase I Programs	1999
5) Finalize Any Upgrades to Funding Structure and Mechanisms	1999-2000
6) Initiate all Phase I outreach/education programs	1999-2000
7) Procure all other Phase I system improvements	1999-2000
8) Renegotiate Arrangements for Long Term Disposal Capacity	2002-2008
9) Engineer & construct transfer station/MRF modification	2002-2003
10) Preliminary Program Specifications for Planned Ph II Programs	2002-2003
11) Establish Budgets for Planned Phase II Programs	2002-2003
12) Finalize Any Upgrades to Funding Structure and Mechanisms	2002-2003
13) Trigger Ban on Selected Items from Landfill Disposal	2003-2008
14) Initiate all Phase II outreach/education programs	2003-2008
15) Procure all other Phase II system improvements	2003-2008
16) Data Tracking to Assess Program Performance	Annual/Ongoing
17) Update Implementation Action Plan	Annual/Ongoing

III-9 SITING REVIEW PROCEDURES

The Siting Review Procedures contained in this Plan begins with a description of *Authorized Disposal Area Types* followed by a description of the *Siting Criteria and Process*.

AUTHORIZED DISPOSAL AREA TYPES

Per the requirements of Part 115 Section 11533 of NREPA, this Plan includes an Enforceable Program and process that assures that the nonhazardous waste to be generated in the planning area over the next 10 years will be collected and recovered, processed, and disposed of at disposal areas that comply with state law and rules promulgated by the Michigan DEQ governing the location, design and operation of the disposal areas.

As provided for in Part 115 Section 11537 (a) of NREPA, this Plan demonstrates that the planning area has in excess of 66 months of available disposal capacity and will have in excess of 66 months of available disposal capacity for the duration of the 5 year planning period for which this Plan is provided. As a result, the County may refuse to utilize the siting mechanism contained herein until the County is no longer able to demonstrate 66 months of disposal capacity or until the County amends this Plan to provide for the annual certification process described in Part 115 Section 11538 (4) of NREPA.

This Plan does not include an annual certification process, as provided for in Part 115 Section 11538 (2) of NREPA, since specific disposal areas are identified in this Plan for the five year period after approval of the Plan and, as such, is not required to provide the annual certification process described in Part 115 Section 11538 (4) of NREPA, or the interim siting mechanism described in Part 115 Section 11538 (3) of NREPA.

A: Facilities Included in this Plan:

This Plan's Enforceable Program and process, per the requirements of Part 115 Section 11533 of NREPA, includes new disposal areas within the County as described below. Disposal areas at specific sites identified in this Plan are automatically included in the Plan. Disposal areas without specific sites identified will be sited following the Plan's siting mechanism as provided for in this Chapter as will any changes in type or expansions of any existing disposal area unless provided for elsewhere in this Plan.

A.1: Type II Landfill Disposal Area: A Type II Landfill disposal area, sponsored by the County Department of Public Works is included in the Plan should the Department be unable to identify and secure cost effective long term disposal capacity under contract as provided for under the selected alternative. Sponsorship by the County is defined to mean, at a minimum, ownership or long term lease from state or local government (>20 years) of the land on which the disposal area is located with solid waste directed to the disposal area by ordinance, contract or other similar mechanism as provided for in the Plan's Enforceable Program. Such a Type II Landfill disposal area will be sited following the Plan's siting mechanisms as provided for in this chapter since no specific sites have been identified in the Plan for a Type II Landfill disposal area. No other Type II or Type III Landfill disposal areas may be sited by this Plan.

A.2: Solid Waste Transfer Station Disposal Area: Any expansion of throughput or processing capabilities of the County's Solid Waste Transfer Station and Recycling Facility at or adjacent to the existing site is automatically considered to be consistent with the Plan and does not need to go through the Plan's siting mechanisms as provided for in this chapter. Relocation of the County's Solid Waste Transfer Station and Recycling Facility to a new disposal area or areas, as described in the Plan's Enforceable Program, constructed with recycling/material recovery capabilities and sponsored by the County, is included in the Plan. Sponsorship by the County is defined to mean, at a minimum, ownership or long term lease from state or local government (>20 years) of the land on which the disposal area is located with solid waste directed to the disposal area by ordinance, contract or other similar mechanism as provided for in the Plan's Enforceable Program. Such a relocation of the Solid Waste Transfer Station disposal area or areas will be sited following the Plan's siting mechanisms as provided for in this chapter since no specific sites have been identified in the Plan for a Solid Waste Transfer Station disposal area. No other Solid Waste Transfer Station disposal areas may be sited by this Plan.

B: Exempt Facilities:

The following types of facilities do not require a construction permit and operating license from DEQ under Part 115 of NREPA.

B.1: Solid Waste Transfer Facility Disposal Area: Part 115 of NREPA specifies that the following types of solid waste transfer facility disposal areas do not require a construction permit and operating license from DEQ if either of the following circumstances exist:

i: The solid waste transfer facility disposal area is not designed to accept wastes from vehicles with mechanical compaction devices.

ii: The solid waste transfer facility disposal area accepts less than 200 uncompacted cubic yards per day.

These types of solid waste transfer facility disposal areas are still subject to the Plan's siting mechanism as provided for in this chapter and are still exempt from local zoning.

B.2: Recycling and Compost Processing Facility: A processing facility that processes only source separated materials of any type does not require a construction permit and operating license from DEQ. These types of facilities do not have to be sited by the Plan in order to be constructed and are subject to local zoning. These types of facilities can be sited with the approval of the local unit of government that has jurisdiction over a proposed site with the enforcement of local ordinances, including zoning applicable to that siting being authorized elsewhere in this Plan.

C: Facilities Not Included in this Plan:

A proposal for any other disposal area as defined in Part 115 or NREPA, whether a solid waste transfer facility, incinerator, sanitary landfill, processing plant or other solid waste handling or disposal area utilized in the disposal of solid waste is not included in this Plan and, thus, will not be allowed to trigger the Plan's siting mechanism.

D: Plan Amendment to Include a Facility Not Included in this Plan:

If a proposed facility is not consistent with, or in compliance with this Plan, the facility proposer can request that the County amend the Plan. The procedure to amend this Plan is the same as the process for adopting this Plan, as provided for in Section 115 of NREPA. A request to amend the Plan should be made to the appropriate County Agency identified below. Upon receipt of such a request to amend the Plan, the County shall prepare a budget showing the costs anticipated to amend the Plan. Upon adoption of that Budget by the County Board

of Commissioners the total amount of that budget shall become the fee charged to consider a proposed amendment to the Plan.

SITING CRITERIA AND PROCESS

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

If a disposal area being considered for development is included in the Plan's Authorized Disposal Area Types, as described above, then the Plan's Siting Review Process can be triggered as follows:

A: Initiating the Plan's Siting Review Process: To initiate the Plan's Siting Review Process, the Applicant shall submit 17 copies of an administratively complete application and the Application Fee to:

Solid Waste Coordinator's Office
Emmet County Department of Public Works
200 Division Street
Petoskey, MI 49770
616 348-0640

The above office will act as the administrator and staffing for the County in this Siting Review Process and will be referred to below as the "Agency".

B: Application Fee: *Application Fee Structure:* An administratively complete application shall include the Application Fee in the form of a certified check or money order in the amount identified for the type of facility being proposed:

Type of Facility Requiring Permit	Application Fee
Landfill	$15,000
Incinerator	$15,000
Processing Facility	$15,000
Transfer Station	$4,000

The Application Fees will be used, at the discretion of the County, in evaluating the Application, including but not limited to, 1) staff time spent on the Siting Review Procedures and related tasks, 2) costs of required public meetings and related services, 3) costs for publication and mailing of notices and printing of documents, and 4) costs for consulting fees and other technical assistance as required, related to the Siting Review Process. The above fee schedule may be modified by the County Board of Commissioners at their sole discretion. It is the responsibility of the Applicant to contact the County to determine the current fee amount that must be included with the application.

C: An Administratively Complete Application: An administratively complete application shall include all the items identified below. The required information shall be used in the Siting Review Process to apply the minimum siting criteria as provided for in Part 115 Section 11538 (3) or NREPA. Some of the requirements for an administratively complete application are for informational purposes in order to assist in completing the Siting Review Process.

1: Type of Facility (landfill, incinerator, processing facility, transfer station)

2: Legal description of all parcels included in the proposed disposal area.

3: Name, address and telephone number for:

a) The applicant and its parent company, if any;

b) Property owner of the site (if different);

c) Operator of the proposed disposal area (if different);

d) Designer/Engineer of the proposed disposal area; and

e) Designated contact for the Siting Review Process.

4: A statement that the applicant is the owner of all the parcels involved in the application or, if the owner of any of the parcels is different than the applicant, documentation in the form of land contracts, purchase agreements, or other binding legal instruments which substantiate the applicant's ability to proceed with development and operation of all parcels involved in the application.

5: General site location map(s). The general site location map(s) shall include more than one drawing where required for clarity. One set of the general site location map(s) shall be drawn at a scale and of such accuracy that one can readily interpret the general site location map(s). Another set of the general site location map(s) shall be reduced so each sheet shall fit on 8 1/2 by 11 inch, or 8 1/2 by 14 inch, paper. Such general site location map(s) shall be designed and prepared by a registered professional architect, landscape architect, engineer, land surveyor, or community planner. The general site location map(s) shall include the following information:

a) The parcel(s) within the general site location map, identified by parcel lines and location including dimensions, angles and size, correlated with the legal description of said parcel(s).

b) The scale, north point, boundary dimensions, topography, and natural features such as woodlots, streams, rivers, lakes, drainage and similar features.

c) Existing man-made features such as roads, buildings, structures, high tension towers, pipelines, existing utilities such as water and sewer lines, excavations, bridges, culverts, drains and easements, and shall identify adjacent properties and their existing uses including:

i) Access roads to the site;

ii) Proposed access point(s) to the site;

iii) Location of any public use airports licensed by the Bureau of Aeronautics, of the Michigan Department of Transportation, that are within ten thousand (10,000) feet of the proposed active disposal area;

iv) Location of public and private water wells within one mile of the proposed active disposal area and showing established/approved wellhead protection areas; and

v) Residences, commercial establishments, industries, institutions including schools, churches, hospitals and historic or archaeological sites within one mile of the proposed active disposal area.

d) Current zoning at the site and for adjacent land uses.

6: A detailed site plan or plans describing, 1) the site as it exists, and 2) the site in use as a solid waste disposal area. The site plan shall include more than one drawing where required for clarity. One set of the site plans shall be drawn at a scale not to be greater than one (1) inch equals twenty (20) feet nor less than one (1) inch equals two hundred (200) feet, and of such accuracy one can readily interpret the site plan. Another set of the site plan shall be reduced so each sheet shall fit on 8 1/2 by 11 inch, or 8 1/2 by 14 inch, paper. Such site plan shall be designed and prepared by a registered professional

architect, landscape architect, engineer, land surveyor, or community planner. The site plan shall include the following information:

a) The parcel(s), identified by parcel lines and location including dimensions, angles and size, correlated with the legal description of said parcel(s).

b) The scale, north point, boundary dimensions, existing topography (at least two (2) feet contour intervals), and existing natural features including woodlots, streams, rivers, ponds, lakes, wetlands, high risk erosion areas, slopes over 25%, beach, sand dunes, drainage and similar features, including:

   i) One hundred year flood plains (as identified by DNR flood plain maps and as defined in Part 115, Administrative Rules) within the boundaries of the site;

   ii) Lands regulated under the Farmland and Open Space Preservation Act, 1974, Part 361 of NREPA, as amended, that are within the boundaries of the site;

   iii) Location of surface water within the boundaries of the site;

   iv) All wetlands (regulated and non-regulated) within the boundaries of the site;

   v) Location of drains within the boundaries of the site;

   vi) Topography information based on USGS datum, or selected on-site elevations; and

   vii) Soil analysis based on a Modern Progressive Soil Survey of the County. If such survey is not completed for the site, then generalized soil analysis data regarding the soils and their adaptability to the use must be submitted.

c) Location and boundary dimensions of existing man-made features within the boundaries of the site including buildings, structures, high tension towers, pipelines, water wells, existing utilities including water and sewer lines, excavations, bridges, culverts, drains, easements and any known existing contamination.

d) The location and boundary dimensions of proposed changes within the boundaries of the site including:

   i) Solid waste processing and disposal areas;

   ii) Individual landfill cells (if applicable) with an estimate of volumetric air space capacities and when individual cells would be developed during the life of the facility;

   iii) On site roads, driveways, sidewalks and other vehicular and pedestrian circulation features within and adjacent to the site, including staging area for trucks waiting to use the facility, parking spaces in the off-street parking areas and the identification of service lanes and service parking;

   iv) Main and accessory buildings, their relation to one another and to any existing structures on the site, the height of all buildings and square footage of floor space, finished floor and grade line elevations;

   v) Open spaces, landscaping and buffering and security features, greenbelts, fences and walls;

   vi) Connections to existing utilities and proposed extensions thereof;

   vii) Soil erosion and sediment control measures including preventative soil erosion devices or measures, both during and after any site work related to the development, when required;

   viii) Interior and exterior areas and structures to be used for storage, use, loading/unloading, recycling, or disposal of hazardous substances;

ix) Underground and above ground storage tanks for such uses as fuel storage, waste oil holding tanks, chemical storage, hazardous waste storage, collection of contaminated stormwater or wash water, and all similar uses;

x) Exterior and interior drains, on-site sewage systems, dry wells, catch basins, retention/detention areas, sumps and other facilities designed to collect, store or transport stormwater or wastewater including point of discharge for all drains; and

xi) Any other man-made features not specifically described above.

e) Conceptual engineering plans for construction of the facility.

7: A written narrative that shall include the following information:

a) Name and type of solid waste facility.

b) General description of the facility and how it functions (for informational purposes in the Permit Review Process) including the types and quantities of waste to be delivered to the facility, the targeted service area (e.g. communities, major commercial and industrial establishments, institutions, and waste haulers) for the facility, useful life and capacities of the facility, description of how each type of material will be handled at the facility, the eventual disposition of the materials to be handled by the facility, the proposed operating schedules (days and hours), a description of any resource recovery, recycling and composting activity planned for the site, the expected employment of the facility, a discussion of the economic and engineering feasibility of the final use plan for the site, and the applicant's rationale for developing the facility.

c) Summary of the results of the DEQ advisory analysis (if completed), with responses to any points raised in the advisory analysis and a copy of the advisory analysis attached as an exhibit.

d) Summary of the results of an Environmental Permits Checklist (with a copy attached as an exhibit), with discussion regarding any required permits along with current permit status documentation including either copies of received permits attached as exhibits, letters of intent to approve and issue a permit, letters of understanding for concurrent approval (issuing a permit) from those agencies or summary of discussions held with authorities responsible for issuing those permits. The site plans should be drawn to show design/placement as required for compliance with each of the applicable permits. Permits to be covered where applicable include:

i) Well permit;
ii) Type II water supply permit;
iii) Type III water supply permit;
iv) On site sewage disposal permit;
v) Soil erosion permit;
vi) Land division or subdivision approval;
vii) Waste disposal, storage or monitor wells permit(s);
viii) Sand dune mining permit;
ix) Permit to cut forest products;
x) Forestry use or special use permit;
xi) Easements for utilities and public agencies (on state or federal lands);
xii) Dam construction permit;
xiii) Certificate of Public Convenience and necessity for pipelines;
xiv) Air quality installation and operating permits;
xv) National Pollutant discharge elimination system permit;
xvi) Groundwater discharge permit;
xvii) Wastewater collection and treatment facilities construction permit;
xviii) Great Lakes Shorelands permit;

xix) Inland Lakes and Streams permit; and
xx) Wetlands permit.

e) An inventory of public services (fire protection, sewer, water, sanitation, emergency services/response, quasi-public utility companies (gas, electric, telephone) showing:

i) Public services which are required by the solid waste facility; and

ii) Public services which exist to service the site of the solid waste facility.

f) Statements relative to the impact of the proposed development on soil erosion, shoreline protection, wildlife habitat, air pollution, water pollution (ground and surface), noise, and the scale of development in terms of the surrounding environment.

g) Other narrative statements necessary which specifically address the siting standards listed in part two of this chapter.

h) Other narrative statements necessary regarding design and operation of the proposed facility in response to applicable requirements of County and local ordinances and rules/regulations.

D: Step One: Application Review - Administratively Complete Finding: Upon receipt of an application the Agency shall review the application and determine if the application is complete. The Agency shall complete a checklist documenting the satisfactory submittal of each item required in an administratively complete application or noting the specific area that is not satisfactory. The checklist shall then be provided to the Applicant should additional information be required. This shall be completed within 60 days of submission of the Application. If the Agency does not make a finding on whether the Application is either complete or not complete within the 60 days then the application automatically proceeds to the next step below.

E: Step Two: Application Review - Engagement of Review Committee: Upon receipt of an Application, the Agency shall notify the County Board of Commissioners (Board) who shall appoint the Solid Waste Facility Siting Committee (SWFSC) as described below. In the absence of an appointed SWFSC the County Board shall serve in its place.

The SWFSC will consist of membership as defined in Attachment A to this Plan Siting Mechanism. The County Board or designee shall call for the first meeting of the SWFSC and, upon election of the Chairperson, the Chair shall officially convene each meeting of the SWFSC. The SWFSC will be dissolved when either the Application is deemed inconsistent with the Plan, or the Michigan DEQ has issued the facility an operating permit (or, in the case of a Type B Transfer Station Disposal Area, the facility receives its building permits and all required inspections from the local government with jurisdiction over the site). The County Board shall make provisions for appropriate staff and technical resources through the Application Fee, or other funding mechanisms as may be identified.

The SWFSC will then review the Application as guided by this Permit Review Process and the Minimum Standard Siting Criteria contained in Attachment B to this Siting Review Process.

F: Step Three: Application Review - Public Notice of First SWFSC Meeting: Within 10 days of the determination of an administratively complete application, or the creation of the SWFSC, whichever is later, the Agency shall set a date for the first SWFSC meeting and mail agendas.

a) The agenda shall be mailed to the routine list of recipients of County agendas as well as:

i) The applicant;
ii) The owners of the property for which approval is being considered;

iii) The owners of any property within 300 feet of the boundary of the property for which approval is being considered, as shown by the latest equalization roll;
iv) All occupants of structures within 300 feet of the property in question. If the name of an occupant is not known, the term "occupant" may be used in the notice. Notification need not be given to more than one (1) occupant of a structure, except that, if a structure contains more than one (1) dwelling unit or spatial area owned or leased by different individuals, partnerships, businesses or organizations, one (1) occupant of each unit or spatial area shall receive notice. In the case of a single structure containing more than four (4) dwelling units or other distinct spatial areas owned or leased by different individuals, partnerships, businesses, or organizations, notice may be given to the manager or owner of the structure who shall be requested to post the notice at the primary entrance to the structure;
v) The chief elected official of the municipality the site is proposed to be located in;
vi) Members of the SWFSC;
vi) Any other notification required by the Michigan Open Meeting Act; P.A. 267 of 1976, as amended; and
vii) Any other notification required by Part 115 of NREPA.

b) The agenda shall indicate:

i) The applicant;
ii) The property which is the subject of the application;
iii) The date, time and location of the first SWFSC meeting;
iv) The order of business for the meeting with action items identified; and
v) A short overview of the Site Review Process.

c) The agenda shall be sent out at least 10 days prior to the date of the meeting.

G: Step Four: Application Review - First SWFSC Meeting: Within 30 days of the determination of an administratively complete application, the SWFSC shall hold its first meeting.

a) The SWFSC shall elect a chair and vice chair as the first order of business at the first meeting.

b) At, or prior to the meeting, the Agency shall distribute the Application to the SWFSC along with documentation of it being administratively complete.

c) The SWFSC shall make an initial discussion of the Application.

d) The Agency shall then communicate its work plan for background review of the Application and preliminary scoring against the Minimum Standard Siting Criteria.

e) The SWFSC shall then establish a date for their formal review and consideration of the Application.

f) Public comment will then be received and the meeting adjourned.

H: Step Five: Application Review - Agency Evaluation of Application: Within 80 days of the first SWFSC meeting, the Agency shall complete its review of the Application and prepare a written review of the Application, including preliminary findings and scoring of the Application against the Minimum Standard Siting Criteria provided in Attachment B to this Siting Mechanism.

I: Step Six: Application Review - Meeting to Consider Application: Within 90 days of the first SWFSC meeting, the SWFSC shall meet to formally consider the Application.

a) The agenda shall be mailed to the routine list of recipients of County agendas as well as the list specified in E (a) above.

b) The agenda shall indicate:

   i) The applicant;
   ii) The property which is the subject of the application;
   iii) The date, time and location of the SWFSC meeting for formal consideration of the Application;
   iv) The order of business for the meeting with action items identified;
   v) A short overview of the Site Review Process; and
   vi) When and where written and verbal public comments can be delivered.

c) A meeting packet, containing a copy of the Agency's written review of the Application, including preliminary findings and scoring of the Application against the Minimum Standard Siting Criteria, shall accompany the agenda for the following recipients of the agenda:

   i) The applicant;
   ii) The owners of the property for which approval is being considered;
   iii) The owners of all property within 300 feet of the boundary of the property for which approval is being considered, as shown by the latest equalization roll;
   iv) All occupants of structures within 300 feet of the property in question. If the name of an occupant is not known, the term "occupant" may be used in the notice. Notification need not be given to more than one (1) occupant of a structure, except that, if a structure contains more than one (1) dwelling unit or spatial area owned or leased by different individuals, partnerships, businesses or organizations, one (1) occupant of each unit or spatial area shall receive notice. In the case of a single structure containing more than four (4) dwelling units or other distinct spatial areas owned or leased by different individuals, partnerships, businesses, or organizations, notice may be given to the manager or owner of the structure who shall be requested to post the notice at the primary entrance to the structure;
   v) The chief elected official of the municipality the site is proposed to be located in;
   vi) Members of the SWFSC; and
   vii) Any individuals that have made a request in writing to the Agency to receive the meeting packet.

d) The agenda and meeting packet shall be sent out at least 10 days prior to the date of the meeting.

e) Notice of the meeting shall be published in a newspaper which circulates in the municipality the site is proposed to be located in and shall be mailed or personally delivered to the newspaper fifteen (15) days prior to the date the application will be considered. The Notice shall include information on where the meeting packet can be viewed.

f) At the meeting, the Agency shall present its findings resulting from completing the work plan for background review of the Application and preliminary scoring against the Minimum Standard Siting Criteria.

g) The SWFSC shall then complete a discussion of the findings of the Agency in their review of the Application and preliminary scoring against the Minimum Standard Siting Criteria. The result of these discussions will be a vote by the SWFSC on the final scoring of the Application against the Minimum Standard Siting Criteria.

h) Applications that do not meet the Minimum Standard Siting Criteria will be determined inconsistent with and not in compliance with the Plan and will not undergo further evaluation. Applications that do meet the Minimum Standard Siting

Criteria will be determined to be consistent with and in compliance with the Plan. The written findings shall be communicated to the Michigan DEQ and the Applicant.

J: Step Seven: Application Review - Notification of Finding: Within 15 days of the conclusion of the formal SWFSC meeting to consider the Application, the Agency shall provide its recommendations to the County Department of Public Works Board (DPW Board) for the final consistency determination. If an Application is found to be consistent with the Plan, formal notice will be forwarded to the Michigan DEQ with a copy to the Applicant. If an Application is found to be not consistent with the Plan formal notice will be forwarded to the Applicant. If formal notice is not provided to the Applicant within 160 days from the initial determination of an administratively complete application, then the Application shall automatically be considered by the County to be consistent with the Plan whether or not such notice is provided to the Michigan DEQ by the County, unless both parties mutually agree in writing to extend this 160 day requirement for action. The Michigan DEQ will then make the final determination, to the extent provided for in Part 115 of NREPA, as part of its review of the Construction Permit application.

K: Step Eight: Application Review - Followup: The SWFSC shall receive formal written notice from the County Agency at the time that the Applicant receives its Construction Permit from the Michigan DEQ or is rejected for that Construction Permit and at the time that the Applicant receives its Operating License. At the discretion of the chair or a simple majority of the members of the SWFSC it will reconvene as needed during this period (before its final dissolution 10 days after the Operating License is issued or after rejection of the Application by Michigan DEQ).

Attachment A to Plan Siting Mechanism Definition of the Facility Siting Committee

The SWFSC will consist of membership as defined below:

- 1 Person representing environmental concerns
- 1 Person representing the County Soil Conservation Service
- 1 Person representing the County Board of Public Works
- 1 Person representing the County Planning Commission
- 1 Person representing the County Road Commission
- 1 Person representing the Regional Solid Waste Planning Agency
- 2 Persons representing the municipality in which the facility site is proposed including the chief elected official or designee
- 2 Persons from any municipality located within three (3) miles of the active work area of the proposed site including the chief elected official or designee, and another representative from that municipality. Only one (1) of these persons will be a voting member, the other will be an ex-officio member. In the event that more than one municipality is located within three (3) miles of the active work area of the proposed site, then these municipalities will together choose only one person to be a voting member to represent these municipalities, and each municipality will designate one (1) ex-officio member.

The representatives from the County Road Commission and from the local municipality(s) will be selected by that agency and government(s), respectively. The names of the selected individuals will be submitted to the County Board for confirmation of appointment. All other members of the SWFSC will be appointed by the County Board.

The County Board or designee shall call for the first meeting of the SWFSC and, upon election of the Chairperson, the Chair shall officially convene each meeting of the SWFSC.

The SWFSC will be dissolved when either the Application is deemed inconsistent with the Plan, or 10 days after the Michigan DEQ issues an Operating License to the Applicant (or, in the case of a Type B Transfer Station Disposal Area, the facility receives its building permits and all required inspections from the local government with jurisdiction over the site).

Attachment B to Plan Siting Mechanism
Minimum Standard Siting Criteria

Minimum Standard Siting Criteria are considered minimum standards that any proposed facility must meet. Each criterion listed below must be answered in the affirmative in order for a facility to fulfill the Minimum Standard Siting Criteria requirements. Detailed descriptions of each criteria follow the yes/no checklist below.

MINIMUM STANDARD SITING CRITERIA EVALUATION CHECKLIST

	YES	NO	CRITERION (See detailed descriptions following checklist)
A			Site Ownership
B			Frontage on Appropriate Roads
C			Distance from Wetlands
D			Distance from Farmland and Open Space Part 361 NREPA Lands
E			Distance from Designated Historic Sites
F			Distance from 100 Year Flood Plains
G			Distance from Designated Wellhead Protection Zones
H			Distance from Water, Beaches, Utility Easements, Public Right of Way
I			Distance from Water Well Serving a Dwelling
J			Distance from Specified Building Types
K			Distance from Land Conservancy Parcels
L			Distance from Schools and Educational Establishments
M			Distance from Certain Recreational Facilities
N			Distance from MDEQ Natural Features Inventory Lands
O			Distance from Specified Types of Natural Resource Lands
P			Distance from Certain Additional Recreational Lands
Q			Distance from a Licensed Public Use Runway
R			Design Incorporates Certain Setback Requirements w/Signed Statement
S			Analysis Submitted Documenting Availability of Required Public Services
T			Signed Statement to Abide by Certain Regulatory Requirements
U			Written Agreement to Abide by Certain Non-locational Zoning Requirements

PRIMARY SITING CRITERIA DETAILED DESCRIPTIONS

A. The site and respective parcel must be owned by the applicant or under long term lease (20 years or greater) from a state agency.

B. The proposed site has frontage on or direct access to a paved county primary road or state trunk line which is designed to handle the type and volume of additional traffic associated with the facility.

C. No part of the site and respective parcel(s) is located within or less than 100 feet from a regulated wetland as defined by Part 303 of P.A. 451 of 1994, as amended (being the Wetlands part of the Michigan NREPA, M.C.L. 324.30301 *et. seq.*).

D. No part of the site and respective parcel(s) is located within or less than 100 feet from land enrolled under the Farmland and Open Space Preservation Act, 1974, Part 361 of NREPA.

E. No part of the site and respective parcel(s) is located within or less than 100 feet from land that is a designated historic or archaeological area as defined by the State Historic Preservation Officer (SHPO) or by local historic preservation districts.

F. No part of the site and respective parcel(s) is located within or less than 100 feet from one hundred year flood plains (as identified by Michigan DNR flood plain maps and as defined in the Part 115 Administrative Rules).

G. No part of the site and respective parcel(s) is located within or less than 100 feet from the boundary edge of a Wellhead Protection Zone established around municipal Type I public water supplies as created pursuant to a Wellhead Protection Program established, or being established under Michigan Wellhead Protection guidelines unless the disposal area to be located on the site and respect parcel(s) is a Solid Waste Transfer Station.

H. No part of the site and respective parcel(s) is located within or less than 100 feet from the boundary edge of:

1. Any surface water;

2. Beach contiguous to a lake or stream;

3. Existing public utility easements; and

4. Existing public rights-of-way.

I. No part of the site and respective parcel(s) is located within or less than 300 feet from a water well which services a dwelling (which is drilled by a licensed well driller and a well log is filed with the Geological Survey Division of the DEQ and district Health Department) in existence on the date the disposal area application was found complete.

J. No part of the site and respective parcel(s) is located within or less than 300 feet from dwellings, duplexes, apartment buildings, hospital, medical care facilities and foster care facilities in existence on the date the disposal area application was found complete.

K. No part of the site and respective parcel(s) is located within or less than 300 feet from lands which are held by a land conservancy or which have development restrictions held by a land conservancy, either of which were in existence on the date the disposal area application was found complete..

L. No part of the site and respective parcel(s) is located less than one half mile from the boundary edge of schools and education establishments in existence on the date the disposal area application was found complete.

M. No part of the site and respective parcel(s) is located less than one half mile from the boundary edge of certain recreation facilities, unless the proposed facility is only an enclosed solid waste transfer station or processing facility disposal area in which case the required distance will be 300 feet:

1. Snowmobile and all terrain vehicle trails which are marked and signed and receive care, grooming with public funds;

2. Horse, bicycle, hiking and ski trails which are marked and signed and receive care, grooming with public funds;

3. Abandoned rail road right-of-ways when owned by a railroad company or a public agency;

4. The parcel boundary of state game area;

5. The parcel boundary of municipal and county parks with recreation facility improvements;

6. A national park or recreation area designated by the U.S. Department of Interior;

7. A national scenic river designated by the U.S. Department of Interior; and

8. A special interest area as designated by the U.S. Forest Service.

N. No part of the site and respective parcel(s) is located within or less than one half mile from land listed on the MDNR Natural Features Inventory, as determined by the MDNR through the Environmental Review process for compliance with Act 365, Endangered Species Protection, of the NREPA as amended unless the proposed facility is only an enclosed solid waste transfer station or processing facility disposal area in which case the required distance will be 300 feet.

O. No part of the site and respective parcel(s) is located within or less than one half mile from land regulated under parts 351 through 361 of P.A. 451 of 1994, as amended (being the Wilderness and Natural Areas, Sand Dunes, Biological Diversity, Natural Beauty Roads, Sanctuaries, Farmland and Open Space preservation part of the Michigan NREPA, M.C.L. 324.35101 *et. seq.* through 324.35101 *et. seq.*) and part 511 of P.A. 451 of 1994, as amended (being the Commercial Forests part of the Michigan NREPA, M.C.L. 324.51101 *et seq.*) unless the proposed facility is only an enclosed solid waste transfer station or processing facility disposal area in which case the required distance will be 300 feet.

P. No part of the site and respective parcel(s) is located less than one mile from the boundary edge of certain recreation lands unless the proposed facility is only an enclosed solid waste transfer station or processing facility disposal area in which case the required distance will be 300 feet:

1. The parcel boundary of a state park;

2. The licensed area of public and private campgrounds licensed by the District Health Department;

3. The parcel boundary of day, summer and retreat camps;

4. Federally designated wild and scenic river corridors;

5. State designated natural river's water's edge; and

6. The parcel boundary of arboretums or sanctuaries established under statute.

Q. No part of the site and respective parcel(s) is located less than 10,000 feet from the boundary edge of a licensed public use airport runway(s), unless the proposed facility is only an enclosed solid waste transfer station or processing facility disposal area.

R. Applicant's Proposal demonstrates that the facility, as designed and constructed, will incorporate the following setback, buffering, screening and service access requirements and includes a written and signed statement from the Applicant indicating that they will abide by and remain in compliance with these requirements at all times. Submittal by the applicant of this signed statement is required to meet this criteria:

1: For facilities which are landfill disposal areas or landfill disposal area expansions, a vegetation belt, buffer, screening and service access area shall meet standards which are not less than:

a: Vegetation Belt: A vegetation belt of 100 feet from the parcel line toward the center of the parcel will be maintained in natural vegetation to provide visual screening from roads and adjacent property. The vegetation belt will not include any improvements, buildings, fences, except for an entrance drive(s), utilities and identification signs.

i: If the site, prior to the date of application, has mature forest cover it will be maintained within this vegetation belt except for the entrance drive, utilities;

ii: If the site, prior to the date of application, does not have mature forest cover, or mature forest cover is lost at any time during the operation of the facility, then the mature forest will be established by planting a variety of native forest species under consultation of a professional forester. The planting will be designed with use of appropriate species to have fast maturing trees to have a mature forest as soon as possible and species which will be mature trees with a long life span; and

iii: The mature forest cover will be maintained by the landfill operator and will not be removed.

b: Buffers: Toward the center of the landfill property, but not within the 100 foot vegetation belt, a buffer shall be established which will include an earth berm. The berm shall:

i: Be eight (8) feet, or more, higher than the original grade within the buffer area;

ii: Not be sloped greater than one (1) unit vertical for each of the same two (2) units horizontal; and

iii: Be covered with a healthy grass, lawn, ground cover or other indigenous vegetation.

c: Service Access Area: Toward the center of the Landfill property, but not within the 100 foot vegetation belt, or buffer will be established a minimum of a ten (10) foot wide service access area maintained between the berm and nearest edge of the landfill's active fill area.

2: For facilities which are not landfill disposal areas, a vegetation belt, buffer, screening and service access area shall meet standards which are not less than:

a: Vegetation Belt: A vegetation belt of five (5) feet from the parcel line toward the center of the parcel will be maintained in woody plant vegetation to provide visual screening from roads and adjacent property. The vegetation belt will not include any improvements, buildings or fences except for an entrance drive(s), utilities and identification signs.

b: Buffers: Measuring toward the center of the disposal area property, but not within the 5 foot vegetation belt, a buffer shall be established which:

i: Shall not be occupied by any structure, storage of equipment, materials, operations, or similar activities;

ii: Shall consist of the following for any side of the parcel that is adjacent to an industrial or commercial zoned area:
- a buffer area setback of fifty (50) feet, or
- a berm four (4) feet or more high, not sloped greater than (1) vertical for each of the same two units horizontal, or
- a solid wall four (4) feet or more, in height, or
- a proportionately adjusted combination of all the above.

iii: Shall consist of the following for any side of the parcel that is adjacent to all other uses:
- a buffer area setback of one hundred (100) feet, or
- a buffer area setback of fifty (50) feet followed by a berm four (4) feet or more high, not sloped greater than (1) vertical for each of the same two units horizontal, or
- a buffer area setback of twenty-five (25) feet followed by a solid wall four (4) feet or more, in height.

c: No Service Access Area is required.

S. An analysis has been submitted that defines the public services which are required by the solid waste disposal area, inventories existing public services (fire protection, sewer, water, sanitation, County emergency services/response, and utilities including gas, electric, telephone, etc.) available at the site boundaries and that documents that the existing public services are the same as or exceed the public services required by the solid waste disposal area. Submittal by the Applicant of this analysis is required to satisfy this criteria. The adequacy of the submittal will not be used to determine if this criteria has been satisfied.

T. Applicant has submitted a written and signed statement that the disposal area will abide by and remain in compliance with any applicable part of the Michigan Subdivision Control Act, Michigan Soil Erosion and Sedimentation Control Act, Michigan Construction Code, applicable state air and water pollution standards, local wellhead protection ordinances, applicable building codes, state and local health codes, local noise ordinances and local junk ordinances as determined with the advice of appropriate state and local officials and as specified in Section III of the Solid Waste Plan, Local Ordinances and Regulations. Submittal by the Applicant of this signed statement is required to satisfy this criteria. The adequacy of the submittal will not be used to determine if this criteria has been satisfied.

U. Applicant has submitted a written and signed statement that the disposal area will abide by and remain in compliance with any applicable part of the respective zoning ordinance's regulations dealing with: parcel size, road frontage, setback requirements, buffering and screening, off street parking, signs, as specified in Section III of the Solid Waste Plan, Local Ordinances and Regulations, but not subject to zoning regulation of location of a solid waste disposal area as a land use. Submittal by the Applicant of this signed statement is required to satisfy this criteria. The adequacy of the submittal will not be used to determine if this criteria has been satisfied.

III-10 SOLID WASTE MANAGEMENT COMPONENTS

The following identifies the management responsibilities and institutional arrangements necessary for the implementation of the Plan's Enforceable Program and Process. 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.

STRENGTHS OF THE CURRENT MANAGEMENT SYSTEM

Some key components of the organizational and management structure required to develop a suitable funding mechanism to implement the selected alternative are already in place and include:

- The County Department of Public Works as the designated implementation agency, with its Director and staff and supporting County administrative leadership.
- The County Department of Public Works Board (DPW Board) as the oversight committee and as an official body with fiduciary responsibility to oversee the details of development and operation of the County's current system including responsibility for development and adoption of an annual strategic plan and budget.
- The statutory authorities and powers of the County Department of Public Works as provided for by Michigan law, enabling it to support implementation of the selected alternative with appropriate legal, management and financial capabilities.
- The County DPW Board's authority to create subcommittees to address specific issues in program implementation as needed.
- The assignment, via existing intergovernmental contracts, of certain powers and responsibilities to the County DPW by local units of government in the County.
- The Emmet County Solid Waste Ordinance No. 20, that takes these powers and responsibilities and structures the basic framework of the solid waste and recycling system for the County solid waste management system.
- The Administrative Rules for the Emmet County Solid Waste Ordinance No. 20 that prescribes in greater detail the specific components of the system.
- The Hauler Licensing Agreements authorized by the Ordinance and Administrative Rules.
- The facility designation arrangements authorized by the Ordinance and Administrative Rules for solid waste.
- The County DPW's management/operational staff that oversee County programs.
- The County DPW's contracting capability for operating programs (e.g. household hazardous waste services).

The current organizational and management structure as just described is deemed to be consistent with the Plan and is authorized as the basis for further development of the Plan's Management Component with all the assignment of powers able to be provided for by the Plan.

FURTHER DEVELOPMENT OF THE MANAGEMENT COMPONENT

The Authorized Management Component builds on the County's current organizational and management structure including the County's solid waste ordinance, system of intergovernmental agreements, contractual arrangements for plan implementation and all related

features. Further development of the Plan's Authorized Management Component is provided for as part of the Plan's Enforceable Program and Process.

Further development of this organizational and management structure as part of the Plan's Authorized Management Component is provided for as part of the Plan's Enforceable Program. These developments may take a number of forms and will only be initiated after an evaluation of the best steps that can be taken to build on the strengths of the current system already in place. These steps will be detailed in an "implementation action plan" that the Plan's Implementation Agency will coordinate development of in order to provide for necessary details required to carry out the Plan's Enforceable Program. These action steps are expected to follow some, if not all, of the following description of an enhanced management system that will provide for a method of funding the selected alternative, including the continued upgrading of the Material Recovery Facility/Transfer Station (MRF/TS) as identified in the selected alternative, as well as implementation of all other aspects of the Selected Alternative.

Every effort will be made during further development of the Management Component, to build a system that is supportive of and enables development of similar services and management capabilities throughout the region out-of-county.

A: User fees should continue to be a primary revenue source for the system. Examples of this current practice are the haulers that pay for tipping solid waste at the transfer station, and residential/commercial generators that pay for collection services through monthly or quarterly fees or pay-per-bag. Expanding services as proposed in the Selected Alternative result in additional user fee opportunities whether at a small solid waste drop-off in a more rural part of the County, at a new yard waste processing center in the County, or at the transfer station as new materials (e.g. construction/demolition) are able to be handled.

Where possible, any user fee paid for solid waste services (collection, transfer or disposal) will include "pay as you throw" (PAYT) features that result in the generator incurring additional costs as volumes of solid waste increase. The County Ordinance and Administrative Rules provide for these features. The Plan reinforces and authorizes this capability.

B: Bundling of other system costs into solid waste user fees will continue, consistent with current practices. An evaluation of the Planned Program costs will need to be completed to determine what effect this will have on the current user fee structure and what, if any, changes will be needed to that structure. This bundling of system costs, similar to a surcharge on solid waste collected and/or disposed, is a proven mechanism for raising operating and capital funds to cover program administration, recycling drop-off system, recycling processing, household hazardous waste programming, as well as other system components. An added benefit is the ability, where appropriate, to offer alternatives to solid waste disposal with no additional user fee that would discourage use of the service. In this way, use of recycling services or household hazardous waste collection programs is maximized. Again, the current Ordinance and Administrative Rules structure is capable of providing this feature to the County's programs.

C: Leveraging of contributed resources will continue, with the best example being the use of corrections labor at the recycling facility. This saves money for the County and area residents and businesses, while also providing a valuable community rehabilitation service. Increased tonnage that is projected during the planning period will mean additional staffing requirements. Every effort will be made to work with the corrections agencies to draw on their labor resources to the maximum extent possible. Discussions, well in advance of any planned expansions, will be completed to open up opportunities by giving these agencies time to plan accordingly for necessary changes.

Arrangements for drop-off sites will be assessed and carefully maintained in order to assure their availability for the full planning period.

D: Landfill disposal contract(s) will be evaluated and competitively bid (or re-negotiated) to maximize use of system funds. Solid waste transfer and disposal are the primary costs in the system. To the degree possible these negotiations will include, 1) arrangements for a long-term price for disposal, for the ten-year Planning Period, that factors in adjustments to that rate to reflect downturns in disposal rates in a larger regional market, 2) a tipping fee surcharge structure that works with adjacent counties that may want to use Emmet County's recycling facility, yet at the same time is set up to recognize that Emmet's equivalent of a surcharge is already collected in advance of final disposal, and 3) use of Emmet's recycling capabilities to process material collected at the landfill and hauled back to the recycling facility.

E: Contracts with other major generators/user groups will be negotiated to bring in additional user fee revenue streams and also provide (through longer contract terms of 5-10 years) the type of security needed to fund additional capital improvements at the recycling facility. User groups that will be approached include nearby counties that have expressed an interest in these services as well as larger generators in the region such as major resorts (Bay Harbor, etc.) that will benefit from the services the recycling facility can provide.

F: Bond financing will be an option that will be investigated, depending on the final details of how the overall system is structured, to raise the required capital for solid waste, recycling, and composting system improvements.

G: Revenues from material sales will continue to contribute, as they have in the past, towards the overall operating budget for the system. Conservative accounting practices and a "revenue fund" approach will be used to build and maintain a revenue fund balance that offsets periods of low market pricing for recyclables and also provides a source of additional capital funds during longer periods of high market pricing for recyclables.

H: Consideration will be given to building County program capacity, to provide collection services for recyclables beyond the current network of drop-off sites that are managed, to determine if it will be more cost effective for citizen's and businesses to contract directly with the County DPW for certain services rather than contract with haulers whose core business is solid waste management, not recycling. This will include consideration of services such as providing additional drop-offs (in the county, outside of the county, or at special use sites such as campgrounds, marinas or other public sites), pickup services for commercial businesses interested in recycling, and possibly curbside recycling.

The DPW will also evaluate, in an effort to maintain competitive and comprehensive waste services, a facilitating role in providing services by acting as a contracting agency, taking advantage of the contracting and franchising provisions in Michigan municipal law, and soliciting proposals/bids from interested private for-profit or not-for-profit entities to provide comprehensive solid waste management services. These contracting arrangements will be structured to be compatible with and supportive of the County's ordinance and intergovernmental agreements.

I: Further steps will be taken to access the fundraising capabilities of private giving and foundations. A "friends of Emmet County recycling", or equivalent, will be enabled in order to leverage additional private donations from individuals, estates, and foundations, as well as corporations and other granting agencies that can strengthen the overall program across the County. These efforts will also be targeted at providing support for education and promotion of clean community initiatives, reduce/reuse/recycle programming and, in some cases, capital funds for informational exhibits, displays, educational facilities and school programs. As well, this structure will be used for channeling volunteer time and overall community good-will to assure that funds are available to cover costs of quality programming that is supported by the public.

IMPLEMENTATION OF THE MANAGEMENT COMPONENT

The following key steps will be taken to further develop the Management Component as needed to implement the selected alternative and the Plan's Enforceable Program:

A: The Department of Public Works is established in this Plan as the "designated implementation agency" to take responsibility for necessary program development through public and private sector channels, working with the Department of Public Works Board (DPW Board) and key stakeholders in the implementation process. The DPW will be provided with continued staffing, supporting technical resources, as well as a budget and all required delegated responsibilities in order to accomplish its task. Where appropriate, every effort will be made to link this implementation capability with other regional efforts out-of-county. As well, other alternate approaches for implementation will be allowed for, should they be determined to be necessary, including 1) a multi-governmental Authority organized as provided for in Michigan law; 2) a quasi-governmental consortium, with staff provided by its member agencies (County and Cities); 3) a newly created non-profit agency; or 4) an existing non-profit agency.

B: The role, powers and authority of the DPW Board will be further defined as a committee that functions as the Plan's "implementation oversight committee" and is assigned the responsibility to facilitate program development through public and private sector channels, advising the DPW, the County Board of Commissioners and key stakeholders on the implementation process. The DPW Board will serve as the focal point for encouraging intergovernmental cooperation, regional collaboration and private sector participation, as well as involving the local business sector and community groups.

C: The DPW will develop a comprehensive "Implementation Action Plan" covering all aspects of Solid Waste Plan program implementation, where specific milestones will be identified for the coming years -- serving as a road map to guide the Implementation Oversight Committee and the designated implementation agency. This action plan will have a strong emphasis on "planning to plan" in order to define required decisions, important decision factors, and expected timing/outcomes, all consistent with the Plan's Enforceable Program and Process as provided by statute, but at a level of detail required for actual task assignments with coordination and accountability for measurable outcomes. The action plan format will also provide for a means to be updated on a regular basis, based on the monitoring of progress towards plan goals and targeted diversion rates and a mechanism for feeding these updates into the ordinance/contract structure, should they need to be changed.

D: The intergovernmental contracts between the County and participating local units of government will be amended to allow implementation of the next steps in the system development as described above. Ordinance changes will follow, as required for implementation of the Plan's Enforceable Program. Amendments to the Intergovernmental Agreements and Ordinance are authorized by this Plan, which will not need to be updated to reflect the amendments to the Agreements and Ordinance as long as such amendments are in compliance with relative provisions of Part 115 of NREPA.

A negotiation process will be initiated with communities in the County to identify and resolve specific issues that need to be addressed before the communities are expected to sign amended intergovernmental agreements. These communities, as well as other key parties affected by the planned programs, will be asked to participate in discussions on implementation details, scheduling and coordination issues. This process will include discussions and decisions about the various roles to be played by the public and private sectors in system implementation. The resulting recommendations will then be incorporated into the Implementation Action Plan and the Plan Management Component legal/financing mechanisms, to the degree that they support implementation of the Plan's Enforceable Program. This process also will involve negotiations with nearby counties

interested in working with the County on various program areas (e.g. recycling processing) on a regional basis so that these details can be worked out and incorporated into the Implementation Action Plan.

E: System improvements, new services, required contract/licensing structures and processing facility expansions will be further detailed, incorporated into the Implementation Action Plan and then implemented. The implementation is expected to be handled by private and/or non-profit or other governmental agencies, with service contracts being the principal means to define expected performance and the necessary flow of funds. In addition to updating the intergovernmental contract, County Ordinance and the hauler licensing and facility designation contracts, it is expected that service contracts will be needed for any recommended service zones or franchise arrangements. Other contracts will be needed for purchased services such as the upgraded household hazardous waste program, as well as other program components.

F: Upon implementation, progress will be tracked through methodical data compilation and analysis in order to measure, on an annual basis, overall waste generation, reduction and recycling, benchmark performance against goals, and target future implementation planning. Regular updates of system performance and new goals will be incorporated into the continuously updated Implementation Action Plan as they develop.

III-11 IDENTIFICATION OF RESPONSIBLE PARTIES

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

Emmet County Board of Commissioners: The County Board is responsible for the overall supervision of the solid waste management system for the county, acting through its Board of Public Works and Department of Public Works (DPW).

Board of Public Works: This board is comprised of members appointed by the County Commissioners and elected officials and has responsibility for oversight of regulatory, fiduciary and operational matters relating to the County solid waste ordinance, Emmet County Recycling Center and Transfer Station, and all related resource recovery programs run by the DPW. This includes oversight of hauler licensing arrangements, and other services, as required by the ordinance.

Department of Public Works: This office, which has a director reporting to the Board of Public Works, provides day-to-day management of County solid waste management programs. This includes providing recycling and composting outreach and education; coordinating operation of the household hazardous waste collection; implementation and administration of the County solid waste ordinance; operation and maintenance of recycling collection, processing and materials marketing; contract management and grant administration; operation of the Transfer Facility; and providing general information to the public.

Solid Waste Management Planning Committee (SWMPC): The Emmet County SWMPC is responsible for updating the County five-year and 10-year Solid Waste Management Plan. The SWMPC is also responsible to the County Board to assist in the approval process of the plan.

Municipal and Township Governments: Local units of government who have entered into an intergovernmental agreement, for certain solid waste handling and designation provisions.

Private Solid Waste Companies: Private sector waste companies provide for collection of solid waste as defined in the County solid waste licensing ordinance. Private sector entities also operate scrap metal recovery, wood grinding, concrete rubbleizing and other recovery activities.

The following lists which entities within the County that will have management responsibilities over various areas of the Plan:

Resource Conservation:	Responsible Parties
Source or Waste Reduction -	Department of Public Works (DPW)
Product Reuse -	DPW/private/non-profit and waste generators
Reduced Material Volume -	DPW and waste generators
Increased Product Lifetime -	DPW and waste generators
Decreased Consumption -	DPW and waste generators

Resource Recovery Programs	Responsible Parties
Composting -	Emmet County DPW Petoskey Department of Public Works Harbor Springs Department of Public Works Mackinaw City Department of Public Works Private waste companies
Recycling -	DPW, Public Agencies & Private companies
Energy Production -	not applicable

SELECTED SYSTEM

Volume Reduction Techniques:	DPW and waste generators
Collection Processes:	DPW, Public Agencies & Private waste companies
Transportation:	DPW, Public Agencies & Private waste companies
Disposal Areas:	
Processing Plants -	DPW, Public Agencies & Private waste companies
Incineration -	not applicable
Transfer Stations -	DPW
Sanitary Landfills -	not applicable
Ultimate Disposal Area Uses:	DPW
Local Responsibility for Plan Update Monitoring & Enforcement:	DPW
Educational and Informational Programs:	DPW

Documentation of acceptance of responsibilities is contained in Appendix D.

III-12 LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

_X__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.

There are two principal areas where the County's Solid Waste Management System is authorized to include ordinance provisions and appropriate rules and regulations. These are:

A. Selected provisions of the Siting Mechanism contained in this Plan cover ancillary construction details and operational aspects of any permitted facility that is sited within the County. These provisions are considered to be consistent with the Plan and are enabled and authorized by the Plan including any ordinance and related rules and regulations required to implement them which may be adopted and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan. These include and are limited to the following:

a. Certain ancillary construction details,

b. Hours of operation,

c. Noise, litter, odor and dust controls as well as other site nuisances,

d. Operating records and reports,

e. Facility security and safety,

f. Monitoring requirements for wastes accepted, banned or prohibited, and

g. Volume reduction, recycling and composting requirements.

B. The Plan's Enforceable Program and Process, including the Authorized Management Component, the Authorized Export conditions, and the Plan's authorized Ordinance provisions, will be carried out through the County's system of intergovernmental contracts, Emmet County Ordinance 20 in current and future amended form, its administrative rules and regulations and the supporting hauler licensing, facility designation agreements and service contracts and system procurement provisions. These provisions and mechanisms are considered to be consistent with the Plan's Enforceable Program, including any further amendments to ordinances and related rules and regulations, as required to implement the Plan's Enforceable Program which may be adopted and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan, except that such amendments shall not exceed the authority provided for in Part 115 of NREPA with regards to the location of disposal areas.

_X__2. This Plan recognizes, and incorporates as enforceable, the following specific provisions based on existing zoning ordinances:

A. Geographic area/Unit of government: Emmet County
Type of disposal area affected: Landfill Disposal Areas
Ordinance or other legal basis: Emmet County Zoning Ordinance

Requirement/restriction: Buffer, Operations, Balance of Items on List in "1" above.

Article XXI, Section 2100 and Section 2102-11. Said articles and sections are contained in Attachment "H" of this Plan

__X__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 meeting these qualifications may be adopted and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan. Allowable areas of local regulation, beyond those specified elsewhere in this document, include:

a. Certain ancillary construction details,

b. Hours of operation,

c. Noise, litter, odor and dust controls as well as other site nuisances,

d. Operating records and reports,

e. Facility security and safety,

f. Monitoring requirements for wastes accepted, banned or prohibited, and

g. Volume reduction, recycling and composting requirements.

III-13 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.

___X___ 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:

The table below identifies landfill disposal areas, their expected life, historical usage rates, and supporting analysis that demonstrates that the County will have more than ten years of disposal capacity for the duration of the ten year planning period. These facilities have all been included in the Plan and appropriate export arrangements made.

Identified Disposal Area Capacity	Available Air Space (Gate CY)	Gate CY Delivered 1995/96	Landfill Life (in yrs) Based on 1995/96 Delivery Rates	Landfill Life (in yrs) Based on 1995/96 Rates w/2% Growth
Manistee (Allied)	7,000,000	151,083	74	60
Glen's (WMI)	22,000,000	278,469	126	102
Cedar Ridge (WMI)	370,000	279,593	2	2
Ken's (WMI)	140,000	77,020	3	2
Wexford	2,000,000	215,027	15	12
CES Waters (WMI)	8,200,000	217,314	60	49
TOTAL	39,710,000	1,218,506	52	42

The calculations of landfill life assume that 20% of available air space is lost to cover and liner components and that gate cubic yards to in-place compaction is 50%. Available air space and delivery rates are based on information provided by landfills either to the State of Michigan or directly to Resource Recycling Systems, Inc.. Available air space for Manistee (Allied) was estimated based on the site that is currently approved in the County Plan and assuming approximately 2 million cubic yards per 40 acres with 2 million cubic yards for overfill, minus 1 million cubic yards for existing filled space.

APPENDICES

APPENDIX A: ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM

APPENDIX B: ADDITIONAL INFORMATION REGARDING THE NON-SELECTED SYSTEMS

APPENDIX C: PUBLIC PARTICIPATION AND APPROVAL

APPENDIX D: PLAN IMPLEMENTATION STRATEGY

APPENDIX A: ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM

EVALUATION OF RECYCLING

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

Detailed Features of Recycling and Composting Programs

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

The following table shows estimated waste composition and volumes by material type. Nearly all materials in the waste stream are available for recycling or composting, however it is not at this time practical to recycle or compost the entire waste stream in Emmet County.

	Percent of Total Waste	1998 Tons	2003 Tons	2008 Tons
Totals	100%	36,463	39,372	40,750
Newsprint (ONP)	5%	1,787	1,929	1,997
Mixed Office	6%	2,334	2,520	2,608
Old Corrugated Containers (OCC)	21%	7,675	8,288	8,578
Mixed Other Paper	9%	3,154	3,406	3,525
All Metals	11%	4,084	4,410	4,564
All Textiles	2%	766	827	856
All Glass	5%	1,896	2,047	2,119
All Plastic	7%	2,589	2,795	2,893
All Yard Waste	16%	5,670	6,122	6,337
Food Waste	10%	3,482	3,760	3,892
Wood Waste	4%	1,513	1,634	1,691
Misc. Bio-degradable	2%	839	906	937
Misc. Non Bio-degradable	2%	675	728	754

Program Recovery Estimates (tons per year)

	1998	*2003*	*2008*
Drop-off system	1,877	1,950	2,000
Curbside recycling	20	140	1,350
Commercial recycling	2,000	4,207	6,587
Yard waste	2,300	3,200	3,200
Total Recovery	**6,197**	**9,497**	**13,137**
% of waste diverted	**17.2%**	**24%**	**32%**

APPENDIX A

Equipment Selection

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.

The Selected System is intended to provide waste collection, recycling and composting opportunities throughout the County. Equipment and site selection is based on that intent and the desire for economical and reliable services.

Existing Programs:

Drop-off recycling stations - Emmet County's drop-off collection stations have evolved from trailer-type collection to small roll-off type containers (15-20 cubic yards each) serviced by a hook-lift truck. As volumes and materials have increased, Emmet County has recently purchased a larger truck to allow handling larger 30-yard containers, improving collection efficiency. The smaller roll-off containers will remain in use at lower volume collection sites. Stations have progressed from a single divided container to multiple containers, with some sites having a container dedicated to cardboard. Equipment has been selected by DPW staff utilizing consultants as needed, through a bid process, DPW Board recommendation, and Board of Commissioner approval.

Recycling Processing/Transfer - The recycling processing facility was expanded in 1996-97 to accommodate larger volumes, more materials and to allow sorting of a portion of the received recyclables. The equipment and facility design were developed with the help of consultants and put out to bid. The final selection was made by the DPW Board with approval by the County Board of Commissioners, based on recommendations from the consultants, DPW staff and the DPW Building Committee. A similar process is expected for future improvements.

Composting - No new equipment is required in the plan.

Proposed Programs:

Drop-off recycling stations - Emmet County plans to use existing equipment with the addition of a few more containers of the same type as is currently used. Additional equipment will be selected by DPW staff/Board as the needs become apparent, adding containers as needed.

Curbside/Commercial Collections - Emmet County will continue to use existing equipment to make some commercial collections. Selection of curbside collection equipment and private commercial collection equipment will be up to the service providers. In order to expand collection services particularly to small businesses, it is expected that a curb-cart or bag type system would be implemented to serve office paper and small corrugated collections. Selection of equipment would be coordinated by the service provider.

Recycling Processing/Transfer - Emmet County will work with consultants to select the best equipment to serve the needs of the County. New equipment is expected to include a new baler to increase cardboard throughput and allow baling of difficult-to-bale materials. Other equipment includes a magnetic separator, and can densifier to improve mixed container processing. In addition, collection/storage containers (roll-off type) would be placed to allow drop-off of source-separated construction and demolition materials.

Composting - No new equipment is required in the plan. It is expected that windrow turning would occur with an existing front loader. Screening and other processing would be done with rented/loaned equipment. A local private sector operator is expected to provide a tub grinder service.

Site Availability & Selection

Existing Programs:

Drop-offs - Existing sites will continue to operate. New sites would include parks, campgrounds and other public and or private sector entities that wish to contract for collection. A new public drop-off site could be added in the northeast section of the county.

Recycling Processing/Transfer - The existing site will remain operational.

Composting - Harbor Springs and Petoskey will continue to operate their low tech programs.

Proposed Programs:

Drop-offs - Existing sites will continue to operate. Additional sites will be added by agreement between local entities and the DPW.

Recycling Processing/Transfer - Future improvements will occur on the existing site.

Composting - A composting study which identifies potential sites, site needs, and startup costs has been completed for the DPW. Siting will occur based on the need for increased composting capacity.

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.

Existing Programs:

Existing composting programs are low tech and do not include measurement and tracking.

Program Name	pH Range	Heat Range	Stability
Traverse City compost site	pH: 5.0-8.5	140-160 degrees during active composting	Finished compost shall be a mature, stabilized, humus-like material, capable of supporting plant growth without the addition of fertilizers or other soil amendments; should contain less than 1% of plastic, glass, metal and other physical contaminants
Grand Traverse county compost site	Same as above	Same as above	Same as above

Proposed Programs:

Any new compost programs (public or private) should meet the parameters stated above and will be operated according to the recommendations of the guidebook: Best Management Practices for Composting (published by MDEQ 1996).

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.

Implementation of the selected alternative will be completed in full compliance with the state and federal laws and in coordination with both local and regional public health, planning and environmental agencies. Section III of the Plan provides detail on the Management Component of the Plan as well as Ordinances and Siting Requirements.

The Department of Public Works will have responsibility for program implementation as the designated implementation agency. The Board of Public Works will oversee the Department and have fiduciary responsibility for the County solid waste management system, while reporting to the County Board of Commissioners. The County Administration will work with these department staff and appointed committee operations to track performance against planned milestones contained in both the Solid Waste Plan and in the Implementation Action Plan.

The County, through intergovernmental agreements with participating communities will administer a comprehensive solid waste management system that includes funding mechanisms, a county-wide ordinance, administrative rules, hauler licensing and facility designation agreements, import/export conditions, ongoing operations of collection programs and MRF/Transfer Station and service contracts for other supporting programs. Participating communities as well as private solid waste management companies will work with the County in developing and operating the selected alternative.

Emmet County has also participated in planning and information sharing with other counties in the region to evaluate opportunities for regional programs and/or developing consistent recovery efforts between neighboring counties.

APPENDIX A

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.

System Component	Estimated Costs	Potential Funding Sources
Clean Community:		
Solid Waste Collection	No estimate	Customer contract payments
Spring/fall Cleanup	No estimate	Local governmental unit
Household Hazardous Waste	$25,000/yr	DPW budget[1]
Adopt a _____ programs	No budget	Volunteer efforts
Recycling Incentives:		
Promotion and Education	$30--60,000/yr	DPW budget
Pay as You Throw	Approx. $1.75/bag	Paid by users
Residential Recycling:	*(collection and processing)*	
Drop-offs	$81-117,000/year (operating)	DPW budget
Super Drop-off (after 2003)	$18,000 (capital) $52,500/yr (operating) $36,000 (capital)	DPW budget
Subscription Curbside	$6/hhld/mo (yr 1-5)	Paid by users
Contract Curbside	$3/hhld/mo (yr 6-10)	Paid by user via solid waste bill, water bill or by municipality
Yard Waste Recovery:		
Yard Waste Drop-off Sites	$6,000/yr	DPW budget and/or fees
Backyard Composting	$6,000/yr	DPW budget and/or fees
Fall Leaf collection	$30,0000/yr	Municipalities
Alternative Seasonal Collection	$1-2/bag	User fees
Commercial Recycling:	(collection and processing)	
Commercial Corrugated Routes	$126,000	User contract fees
Other Commercial Recycling	$65,000	User contract fees
Expanded Commercial OCC	$210,000	User contract fees
Recycling / Compost Processing:	$305-525,000 (capital)	DPW budget, contracts
Recycling Processing Expansion	$200,000	DPW budget, contracts
C&D Processing	$50-350,000 (capital)	DPW budget, public and private contracts, bonds
Yard Waste Processing	$18/ton (operating)	
Solid Waste Transfer:		
Existing Transfer	Approx. $52.50/ton	Tipping fees
Remote Transfer Collection	Possible future	User fees
Transfer Facility Improvement	$250-650,000 (capital)	DPW budget, millage, bonds
Management Arrangements	Included in above programs	Primarily DPW budget[1]

1 DPW budget = Department of Public Works Budget, which is primarily generated through transfer station tip fees and revenues from the sale of recyclable materials.

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:

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.

Emmet County Selected System: Expanded Clean Community & Comprehensive Recycling

ADVANTAGES:

1. Clean community and education/promotion create stronger interest in responsible practices
2. Illegal dumping activity minimized
3. Most small quantity unregulated hazardous wastes diverted from landfill disposal (Phase II)
4. Recycling/composting starts to become the dominant method of waste management (Phase II)
5. Organics management system is an effective alternative to landfilling
6. Seasonal/Tourist population has option with recycling and solid waste drop-offs
7. Recycling processing/marketing system has very strong foundation
8. Less reliance on landfills for disposal especially with increase of commercial/C&D recycling
9. Alternative landfills used should costs rise or availability be limited
10. Source reduction impact will be observed in both residential and commercial sectors
11. Diversion through recycling/composting likely in the 35% +/- range (25% Phase I)
12. Reduced overall solid waste collection costs begin to be realized

DISADVANTAGES:

1. Small quantity unregulated hazardous wastes still end up in landfills (Phase I)
2. Landfilling still dominant form of waste management (Phase I)
3. System costs may not yet be optimized despite increased recovery
4. System costs increase ($8-12 per capita per year in Phase I; $10-14 per capita per year in Phase II, as general estimate)

APPENDIX B: ADDITIONAL INFORMATION REGARDING THE 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.

Emmet County evaluated waste management components on a continuum—from a base service level to very aggressive recovery— that were defined by the following level of recovery and complexity of programs:

A: Basic Waste Collection and Disposal Program
B: Level 1 Basic Clean Community and Drop-Off Recycling Program
C: Level 2 Expanded Clean Community and Drop-Off Recycling Program
D: Level 3 Expanded Clean Community and Curbside Recycling Program
E: Level 4 Expanded Clean Community and Comprehensive Recycling Program
F: Level 5 Advanced Recovery Systems

Each major level included a relative service level in the following programs:

I: Clean Community Programs
- Residential & Commercial Solid Waste Collection at Curb
- Spring /Fall Cleanup Days
- Illegal Dumping Enforcement
- Adopt a "_____" program
- Household Hazardous Waste Program
- Agricultural and Small Quantity Hazardous Waste Programs

II: Recycling Incentive Programs
- Education
- Promotion
- Pay as You Throw (PAYT)
- Recycle More
- Material Bans

III: Drop-off Residential Recycling Programs
- Mobile Drop-offs - for Sorted Recyclables
- Mobile Drop-offs - for Commingled Recyclables
- Permanent Drop-offs for Sorted Recyclables
- Permanent Drop-offs for Commingled Recyclables

IV: Curbside Residential Recycling Programs
- Curbside Recycling - Sorted
- Curbside Recycling - Commingled
- Co-collection of Separated Recyclables and Solid Waste

Two or Three Stream "Wet/Dry" Collection
Co-collection of "Blue Bag" Recyclables and Solid Waste

V: Residential Yard Waste Composting Programs

Back Yard Composting Bin Distribution Programs
Mulching Mower Programs
Yard Waste Drop-off Stations
Curbside Yard Waste Collection
Fall Leaf Collection

VI: Commercial Recycling Programs

Waste Assessment Services
Drop-off Recycling Services - Sorted
Drop-off Recycling Services - Commingled
Commercial Recycling Collection - Sorted
Commercial Recycling Collection - Commingled

VII: Material Transfer and Processing Programs

Solid Waste Drop-off Sites
Solid Waste Drop-off and Recycling
Solid Waste Transfer Stations
Solid Waste Transfer Stations w/Recycling Drop-off and Processing Capabilities
Stand-Alone Recycling Processing Facilities (MRF)
Construction & Demolition Debris Processing Facility
Mixed Waste Recycling and Compost Processing Facility

VIII: Disposal Programs

Large Solid Waste Landfills in Region
Smaller Solid Waste Landfills Serving Counties
Transfer of Waste Out of Region
Municipal Solid Waste Incineration

Emmet County evaluated its current achievements and goals for improved future solid waste management against these benchmarks. It was concluded that Emmet County was already operating between the C and D levels. Emmet County chose as a goal of the Solid Waste Plan to move toward the D to E level. Individual programs of the Selected System were built upon existing successes.

SYSTEM COMPONENTS:

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

COLLECTION PROCESSES:

Mobile Drop-offs - for Sorted Recyclables: Emmet County started its drop-off program with mobile units and has since outgrown this approach in favor of permanent stations

Co-collection of Separated Recyclables and Solid Waste: Require extensive capital investment without providing significant advantages over the Selected System programs.

Two or Three Stream "Wet/Dry" Collection: Require extensive capital investment without providing significant advantages over the Selected System programs.

Co-collection of "Blue Bag" Recyclables and Solid Waste: Require extensive capital investment without providing significant advantages over the Selected System programs.

PROCESSING:

Stand-Alone Recycling Processing Facilities (MRF): This need is met by the existing MRF/Transfer Station in Emmet County.

Mixed Waste Recycling and Compost Processing Facility: This program requires extensive capital investment without providing significant advantages over the Selected System programs.

DISPOSAL AREAS:

Smaller Solid Waste Landfills Serving Counties: Emmet County has adequate landfill capacity available through the transfer station operated by the DPW.

Municipal Solid Waste Incineration: Adequate landfill capacity is available. Incineration provides no obvious advantages at significant capital risk.

In selecting a waste management system, Emmet County separated the system management and financial considerations from the cost/benefit evaluation of individual programs. Once it was decided that Emmet County would target a particular level of waste diversion, that disposal needs could be met, and programs that could cost effectively meet the goals had been selected, the management and finance system needs were tabulated and assessed.

Emmet County chose to continue using user fees and the DPW budget (funded by user fees and recyclables sales) as the primary means to finance future programs.

INSTITUTIONAL ARRANGEMENTS:

Emmet County already has in place an efficient management structure for County programs run through the DPW and through contracts with private operators. Other programs are run by municipalities and private service providers.

While the Selected System does not specifically provide for other institutional arrangements, it does not prohibit future changes in the institutional arrangements. Examples of arrangements that have been considered, but not specifically included are:

- Recyclables processing contracts with neighboring counties
- Shared C&D processing facilities between counties
- Public/private C&D processing arrangements
- County/Municipality operated compost site

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

Millages, PA 138 and special assessments were not considered the best way to finance programs, since the existing system is working well with existing means. These and other

financing mechanisms would not be considered inconsistent with the Plan if the current method of financing were no longer viable for the County.

EVALUATION SUMMARY OF NON-SELECTED SYSTEMS:

The non-selected systems were evaluated to determine their potential impact on human health, economics, environment, transportation, siting and energy resources within the County. In addition, they were reviewed for technical feasibility, and whether they would have public support. The evaluation process is described above.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEMS:

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 these non-selected systems.

Since the Selected System is a combination of the systems evaluated, the Non-Selected Systems can only be discussed as the components not selected. Much of this is described on the preceding pages. Emmet County has selected components addressing all of the considered program areas.

ADVANTAGES:

1. Some of the rejected programs would have offered the collection and processing of more material types:
   - Mixed Waste Recycling and Compost Processing Facility
   - Two or Three Stream "Wet/Dry" Collection
2. Others would have offered residents more convenient collection:
   - Co-collection of Separated Recyclables and Solid Waste
   - Co-collection of "Blue Bag" Recyclables and Solid Waste
   - Two or Three Stream "Wet/Dry" Collection
3. Others would have freed the County from dependence on out of county landfills:
   - Smaller Solid Waste Landfills Serving Counties
   - Municipal Solid Waste Incineration

DISADVANTAGES:

1. High cost
   - Mixed Waste Recycling and Compost Processing Facility
   - Two or Three Stream "Wet/Dry" Collection
   - Co-collection of Separated Recyclables and Solid Waste
   - Co-collection of "Blue Bag" Recyclables and Solid Waste
   - Smaller Solid Waste Landfills Serving Counties
   - Municipal Solid Waste Incineration
2. Not good match to seasonal nature of population:
   - Mixed Waste Recycling and Compost Processing Facility
   - Two or Three Stream "Wet/Dry" Collection
3. Not perceived as acceptable options to public
   - Smaller Solid Waste Landfills Serving Counties
   - Municipal Solid Waste Incineration

APPENDIX C: PUBLIC PARTICIPATION AND APPROVAL

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

PUBLIC INVOLVEMENT PROCESS:

Following is 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.

Emmet County's Public Works Department and the Solid Waste Planning Committee complied with all requirements for public participation and approval at all times, documented in the attached materials following this section. Agendas were mailed to all committee members, and to the chief elected official of each city, township and village in the county ten days prior to each meeting, and to all persons/agencies requesting information on the solid waste planning process. All meetings were duly posted, and a public comment period was listed on each agenda.

The Plan for the public comment period was approved by a majority of the committee on September 23, 1998 and the Public Comment Period was initiated on October 1, 1998, and closed on December 29, 1998. The Public Hearing was held on December 2, 1998. The meeting was recorded, notes taken, and minutes were prepared and accepted by the Committee. The Public Hearing was announced in local newspapers as required. The Solid Waste Committee met on January 13, 1999 and approved the draft plan. The revised Plan was presented to the County Board of Commissioners on January 14, 1999, and approved by unanimous vote. The Plan will be released for municipal approval the week of January 25, 1999.

PUBLIC COMMENT PERIOD INPUT:

The following comments were received from municipalities during the Public Comment Period:

Wawantam Township 9/8/98	Very interested in recycling services being expanded into their area. Concerned about being limited to only one waste hauler and continually increasing rates for garbage disposal.
Bear Creek Township 11/4/98	
Resort Township 11/4/98	Very impressed with the Plan and existing recycling programs.
Village of Pellston 11/9/98	Interested in Fall leaf pick-up being provided in their village. Some residents voiced interest in having recycle drop-offs in the village to improve convenience of recycling. Also voiced support for backyard compost bin distribution.
Cross Village Township 12/1/98	Very supportive of illegal dumping enforcement and pro-active measures taken to minimize dumping as

	outlined in Plan. Concern regarding merging of waste industry, increased costs, and no options for garbage pick-up service providers were big issues as well.
Public Hearing 12/2/98	Representatives of townships without recycle bins voiced support for expanded recycle programs.
Mackinaw City 12/3/98	Interest in recycling bins sited in the village was expressed. Concern about increasing garbage rates was voiced.
City of Harbor Springs 12/7/98	Interest in curbside recycling but concerned whether it could be maintained once established. Opposed to County developing programs that may only benefit certain populations (such as Fall leaf pick-up in some villages but not others, or curbside in one community but not all of them). Also concern regarding waste provider setting dumpsters in residential areas. Interested in seeing stump disposal regulated and having stumps ground and recovered.
West Traverse Township 12/8/98	
Little Traverse Township 12/12/98	

Note: Minutes were requested from these meetings of local municipalities to document input from boards, councils, and the public. The comments documented here reflect notes taken during the meetings of each representative body.

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

Solid Waste Planning Committee members were nominated to and appointed by the Board of Commissioners to meet the requirements of Part 115 rules for representation. When members resigned, new members were sought and duly appointed.

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. Ken Pacquet, United Waste Systems of Onaway
2. Don Pizzurro, Waste Management of Northern Michigan
3. Jamie Hass, Walloon Lake Refuse Services
4. Don Mapes, Emmet County Transfer Station

One representative from an industrial waste generator:

1. Rich Moreau, Petoskey Plastics

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

1. Ann Baughman, Tip of the Mitt Watershed Council
2. Richard Hitz, Mackinac Forest Council

One representative from County government.

1. Jim Erber, Emmet County Board of Commissioners

One representative from township government:

1. Dennis Keiser, Bear Creek Township

One representative from city government:

1. Walter Goodwin, City of Petoskey DPW

One representative from the regional solid waste planning agency:

1. Jim Lively, Northwest Michigan Council of Governments

Three representatives from the general public who reside within the County:

1. Ann Smith, Petoskey
2. Gary Williams, Mackinaw City
3. Lisa Blanchard, Petoskey

DATE

FIELD(Name)
FIELD(Organization)
FIELD(Address)
FIELD(CSZ)

Dear FIELD(Name):

This letter is to inform you that you have been appointed to Emmet County's Solid Waste Planning Committee by the Emmet County Board of Commissioners.

The fourteen-member committee is charged with preparing an updated Solid Waste Management Plan for Emmet County over the coming year and support the local approval process.

An organizational and informational meeting will be held on Wednesday, January 28, 1998 at 7:30 pm in the Board of Commissioners Room, Emmet County Building, 200 Division Street, Petoskey. You will receive an agenda in mid-January.

Thank you in advance for your willingness to serve on this committee and help guide the future of solid waste management and resource recovery activities in Emmet County.

Please call this office at (616)348-0640 if you have any questions.

Sincerely,

Elisa Seltzer
Director

TY ENVIRONMENTAL SERVICES, INC. OF MID-MICHIGAN
11 NORTH NIAGARA • P.O. BOX 3215 • SAGINAW, MICHIGAN 48605 • (517) 752-4100 • 800 437-0271 • FAX: (517) 752-8700

FILED
NOV 13 1997
IRENE D. GRANGER,
EMMET COUNTY CLERK

November 3, 1997

Mr. James Tamlyn, Chairman
Emmet County Board of Commissioners
200 Division St.
Petoskey, MI 49770

Dear Mr. Tamlyn,

As Emmet County begins the process of updating the Emmet County Solid Waste Plan, City Environmental Services, Inc. of Northern Michigan respectfully requests to have a member of our organization, Dave Herberholz, appointed as a Waste Industry Representative on the Emmet County Solid Waste Planning Committee.

The hauling company and landfill of CESNM are located near Waters in Crawford County. We are a major provider of solid waste service in Emmet County.

Thank you for your consideration. Please contact me should you have any questions.

Sincerely,

David A. Herberholz
Marketing Director

CITY

Recycled Paper

TOWN & COUNTRY CEDAR HOMES

FACSIMILE TRANSMITTAL SHEET

TO: Ms. Elisa Seltzer	FROM: Mike Hope
COMPANY: Emmet Co. Dept of Public Works	DATE: April 22, 1998
FAX NUMBER: 348-0633	PHONE NUMBER: 616-348-0478
PHONE NUMBER:	FAX NUMBER: 616-347-7255
RE:	NUMBER OF PAGES INCLUDING COVER:

☐URGENT ☐FOR REVIEW ☐PLEASE COMMENT ☐PLEASE REPLY ☐PLEASE RECYCLE

NOTES/COMMENTS:

Dear Elisa,

I regret having to inform you that I will no longer be able to serve on the Solid Waste Planning Committee. An employment change requires me to be out of town several days a week, making it impossible for me to attend the meetings. I have enjoyed being a part of the committee and am sorry to have to resign. I have been pleased with the attitude and professionalism of the group and know that a good plan will be drafted.

I am impressed with the progress Emmet County has shown in regard to taking care of its waste and recycling concerns and suspect that it is in large part due to your effort and the effort of those who work with you. I wish you continued success in your effort.

Kind Regards,

Mike Hope

4772 US 131 SOUTH PETOSKEY, MI 49770

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

RUSSELL J. HARDING, Director

REPLY TO

WASTE MANAGEMENT DIVISION
PO BOX 30241
LANSING MI 48909-7741

July 9, 1998

Ms. Elisa Seltzer, Director
Emmet County Department of Public Works
200 Division Street
Petoskey, Michigan 49770

Dear Ms. Seltzer:

I am writing in response to your letter dated May 27, 1998, in which you requested that the Department of Environmental Quality (DEQ) include in the Presque Isle County Solid Waste Plan Update (Plan Update), which we are preparing, authorization for import of solid waste from Emmet County. Your letter also requested authorization to include Presque Isle County as an exporting county in Emmet County's Plan Update.

As the staff person assigned with writing the Presque Isle County Plan Update, I do not foresee any reason, at this time, why Emmet County could not be included in Presque Isle County's Plan Update as an importing county or why Presque Isle County could not be included in Emmet County's Plan Update as an exporting county. However, it should be noted that the Director of the DEQ makes the final decision on approving county Solid Waste Plans, therefore, I cannot give you any specific assurance about the final content of the Presque Isle County Plan Update until the Director has acted on it.

If you any further questions regarding this matter, please feel free to contact me.

Sincerely,

Brian Burke

Brian Burke
Solid Waste Program Section
Waste Management Division
517-373-4742
email@burkeb@state.mi.us

cc: Emmet County Solid Waste Management Plan File
Presque Isle Solid Waste Management Plan File

County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY, MICHIGAN 49770
616 / 348-0640
FAX 616 / 348-0633

POSTING

The **Emmet County Solid Waste Planning Committee** will meet the **fourth Wednesday** of each month at **7:30pm** in the
Emmet County Board of Commissioners Room
200 Division Street
Petoskey, Michigan

The dates for 1998 are as follows:

February 25
March 25
April 22
May 27
June 24
July 22

August 26
September 23
Ocotober 28
November 25
December 23

Department of Public Works
Designated Solid Waste Planning Committee
(616)348-0640

SOLID WASTE PLANNING COMMITTEE

Solid Waste Management Industry

- Ken Paquet - United Waste Systems of Onaway
- Don Pizzurro - Waste Management of Northern Michigan
- Jamie Hass - Walloon Lake Refuse Service
- David Herberholz - United Waste Systems

Environmental Interest Groups

- Ann Baughman - Tip of the Mitt Watershed Council
- Richard Hitz - Mackinaw Forest Council

County Government

- Jim Erber - Emmet County Commissioner

City Government

- Walter C. Goodwin - City of Petoskey Dept. of Public Works

Township Government

- Denny Keiser - Bear Creek Township

Regional Planning Agency

- Jim Lively - Northwest Michigan Council of Governments

Industrial Waste Generator

- Rich Moreau - Petoskey Plastics Plant Engineer

General Public

- Ann Smith
- Mike Hope
- Paul Desy

M E M O R A N D U M

To: Emmet County Commissioners
From: Elisa Seltzer, DPW Director
Date: May 12, 1998
Subject: SWPC Nomination

Due to the resignation of Mike Hope, one of the members of the Solid Waste Planning Committee representing the general public, the following person has expressed an interest in serving on the committee:

Lisa Blanchard

It is proposed that Lisa Blanchard be nominated and appointed to the Solid Waste Planning Committee for the two-year term.

SOLID WASTE PLANNING COMMITTEE

Solid Waste Management Industry

- Ken Paquet - United Waste Systems of Onaway
- Don Pizzurro - Waste Management of Northern Michigan
- Jamie Hass - Walloon Lake Refuse Service
- David Herberholz - United Waste Systems

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- Ann Baughman - Tip of the Mitt Watershed Council
- Richard Hitz - Mackinaw Forest Council

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- Jim Erber - Emmet County Commissioner

City Government

- Walter C. Goodwin - City of Petoskey Dept. of Public Works

Township Government

- Denny Keiser - Bear Creek Township

Regional Planning Agency

- Jim Lively - Northwest Michigan Council of Governments

Industrial Waste Generator

- Rich Moreau - Petoskey Plastics Plant Engineer

General Public

- Ann Smith
- Mike Hope
- Paul Desy

To: Petoskey News-Review
From: Emmet County Department of Public Works
616-348-0640
Re: Legal Notice

Please run the following notice once on Monday, March 16 or as soon as possible. The notice should read as follows:

"NOTICE

Emmet County is seeking a solid waste management industry representative to be nominated for appointment to the Emmet County Solid Waste Management Planning Committee, as required by the State Department of Environmental Quality per Part 115 of PA 451.

This representative must meet at least one of the following criterion:

(i) An individual or organization that derives a substantial portion of its income from the collection, transportation, or disposal of waste.

(ii) A manufacturing industry that collects, transports, and disposes of solid waste that is generated incidental to its operation.

(iii) A unit of government or subdivision thereof that collects, transports, or disposes of solid waste within its political boundary when four members, as defined in paragraphs (i) and (ii) cannot be found.

The two year appointment involves attending monthly committee meetings that will involve drafting a solid waste management plan for Emmet County. Call the Emmet County Department of Public Works, Designated Planning Agency for Emmet County, at 616-348-0640."

Thanks!

EMMET COUNTY
DEPARTMENT OF PUBLIC WORKS
NOTICE

Emmet County is seeking a solid waste management industry representative to be nominated for appointment to the Emmet County Solid Waste Management Planning Committee, as required by the State Department of Environmental Quality per Part 115 of PA 451.

This representative must meet at least one of the following criterion:

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(iii) A unit of government or subdivision thereof that collects, transports, or disposes of solid waste within its political boundary when four members, as defined in paragraphs (i) and (ii) cannot be found.

The two year appointment involves attending monthly committee meetings that will involve drafting a solid waste management plan for Emmet County. Call the Emmet County Department of Public Works, Designated Planning Agency for Emmet County, at (616)348-0640.

(L-3/16)

BY-LAWS
SOLID WASTE PLANNING ADVISORY COMMITTEE

ARTICLE I-JURISDICTIONAL AREA:
All of the area of Emmet County, Michigan

ARTICLE II- PURPOSES:
The purpose of this Committee shall be:

A) To maintain a Comprehensive solid Waste Management Plan for Emmet County, all in accordance with the rules and regulations promulgated by the State of Michigan.

B) To promote the adoption and implementation of the solid waste Management plan.

C) To encourage sound waste disposal practices in Emmet County, considering waste facilities as a land use that impacts the natural environment, promoting clean land, air and water.

D) To further cooperation between and among the governmental units and private agencies in Northern Michigan.

ARTICLE III- MEMBERSHIP AND PRESENTATION:

SECTION 1: The Committee shall be composed of fourteen (14) members appointed by the County Board of Commissioners, and each of whom shall represent specified interests as stipulated in the State Solid Waste Management Act.

SECTION 2: The Committee members shall serve until such time as all of the responsibilities prescribed by state statute have been fulfilled with respect to the preparation and adoption of the Emmet County Solid Waste Management Plan.

SECTION 3: Recommendations for appointments to the Committee may be made by the Committee Chairperson, once it is established , and by the Emmet County DPW.

SECTION 4: Should a vacancy occur in the membership of the Committee, other than by expiration of a full term, it shall be filled as described in Sections 1 and 3.

ARTICLE IV- COMMITTEE MEETINGS
Regular meetings, and any meetings where official business is to be conducted, shall be open to the public. Regular meetings of the Solid Waste Planning Advisory Committee shall be held at

least once each month at a time and place designated by the Chairperson. Special meetings may be held at the call of the Chairperson.

ARTICLE V- QUORUM:
At least fifty (50) percent of the appointed Committee members shall be present to constitute a quorum.

ARTICLE VI- OFFICERS OF THE COMMITTEE
The officers of the Committee shall consist of a Chairperson, a Vice-Chairperson and a Secretary who shall all be members of the Committee and shall serve after elected for one year . Officers shall be elected at the first meeting, but not later than the second meeting of the calender year by the majority vote of the membership of the Committee present at the time of the election. The officers so elected shall also be designated the Executive Committee.

ARTICLE VII-DUTIES OF OFFICERS OF THE COMMITTEE

SECTION 1: *The Chairperson*
The Chairperson shall be the chief officer of the Committee and shall preside at a all committee meetings. The Chairperson shall appoint all committees and be an ex-officio member of each. The Chairperson shall have a vote on all resolutions presented to the committee.

SECTION 2: *The Vice Chairperson*
The Vice-Chairperson shall serve as Chairperson if for any reason the Chairperson is absent. In the absence of both, the Secretary shall so serve.

SECTION 3: *The Secretary*
The Secretary, or one so assigned, shall keep the official minutes of each meeting of the Committee and assume any other duties assigned by the Chairperson.

SECTION 4: *Vacancies*
Should any vacancies occur among the officers of the Committee, a replacement shall be elected at the first meeting after the vacancy occurs.

ARTICLE VIII-COMPENSATION:
Members may receive compensation and be reimbursed for per diem and out-of-pocket expenses as approved by the County Board of Commissioners.

ARTICLE IX-PROGRESS REPORTING
The committee shall provide reports of progress to the County Board of Commissioners. Reporting may be by the Chairperson or by staff persons assigned to serve with the Committee.

ARTICLE X- PARLIAMENTARY PRACTICE:
For meetings of the Committee, the rules of parliamentary practice shall be the same as those

which govern the conduct of the County Board of Commissioners.

ARTICLE XI- ORDER OF BUSINESS:

a) Roll Call
b) Approval of Minutes of Previous Meetings
c) General Public Comments
d) Communications and Committee Reports
e) Unfinished business or carried-over business
f) New Business
g) Other Business
h) Adjournment

The Chairperson of the Committee may, as a point of discretion, change the normal order of business.

1: HEARING FORMAT

As a policy, the format for the conduct of any public hearings shall be in accordance with the following general procedure:

A. The chairperson, or designated hearing officer, announces the hearing is open.

B. The chairperson announces the purpose of the hearing, that legal requirements have been met and relates any special rules for conducting the hearing, such as; acceptance of written comments, time limits for taking comments, and the like.

C. The Chairperson calls upon staff, consultants, or other technical information persons to present the materials pertinent to the subject of the hearing.

D. The Chairperson may solicit comments or testimony from the members of the Committee and/or from members of the audience as appropriate in any response order as elected by the Chairperson.

E. Following the public hearing comments, the Chairperson announces that the hearing is closed and the Committee proceeds to deliberate this matter.

F. Thereafter, the chairperson or hearing officer calls for a vote of action, which may be an approval, conditional approval, or rejection of subject matter; or otherwise considered motions to the table or defer action until a subsequent announced time and date.

2. DECISIONS:

All decisions affecting the Solid Waste Management Plan need not be made on the day of the initial presentation or hearing. Testimony and information obtained at hearings may be taken under advisement and a decision rendered at any designated special or regular meeting within a reasonable time.

ARTICLE XII-AMENDMENT OF THE BY-LAWS:

These by-laws may be amended, altered, added to or repealed in whole or in party by a majority vote of the Committee members present at any regular or special meeting at which they are to be considered.

Mail notices of proposed changes shall not be required when the members discuss the contents of such changes in one meeting for consideration at a subsequent meeting.

ARTICLE XIII- BY-LAWS ADOPTION AND CERTIFICATION

The foregoing By-Laws were adopted by the Solid Waste Planning Advisory Committee, at a regular meeting held on _____ ___ 1998.

_____ Signed

_____ Attended

County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY, MICHIGAN 49770
616 / 348-0640
FAX 616 / 348-0633

SOLID WASTE PLANNING COMMITTEE
Meeting Notice & Agenda

Notice

Date: Wednesday, January 28, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Committee Procedures Established
3. Election of Officers
4. Background Information
5. Solid Waste Planning Process
6. SWP Players: DEQ, NWCOG, RRSI
7. Committee Calendar
8. Public Comment
9. Adjourn

Committee members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting.

MINUTES
Emmet County
Solid Waste Planning Committee

January 28, 1998
Emmet County Building, 200 Division St., Petoskey MI

Committee Members Present	J. Erber, Chairperson; A. Smith, Vice Chairperson; D. Keiser, Secretary; A. Baughman; W. Goodwin; J. Hass; D. Herberholz; R. Hitz; M. Hope; R. Moreau; K. Paquet; D. Pizzarro
Committee Members Absent	P. Desy; J. Lively
Staff Present	E. Seltzer; M. Putters; E. Preisman
Call to Order	The meeting was called to order by E. Seltzer at 7:33 p.m.

Seltzer welcomed the committee and each member introduced him/herself to the group.

Committee Procedures
Seltzer explained the basic procedures underlying the committee structure and its membership and operations. The By Laws included in the committee binders were referred to.

M. Putters discussed a regional approach possibility with regional planners from involved counties working together.

Paquet inquired as to the possibility of a member naming an alternate. Seltzer agreed to ask the Department of Environmental Quality (DEQ) for a determination.

Seltzer informed the committee of a per diem payment for each meeting of four hours or less of $40.00 and mileage reimbursement of $.32 per mile.

A. Baughman moved that the submitted By Laws be adopted. Paquet seconded the motion. All present voted in favor of the motion. The motion passed.

Election of Officers
J. Hass nominated J. Erber to be Chairperson of the committee. A. Smith seconded the nomination and additionally moved that nominations be closed with a unanimous ballot for Erber. Paquet seconded her motion. All present voted in favor. J. Erber was elected Chairperson.

Pizzarro nominated A. Smith to be Vice Chair of the committee. D. Keiser seconded the nomination. A. Baughman moved that nominations be closed. D. Keiser seconded the motion. All present voted in favor. A. Smith was elected Vice Chairperson.

J. Erber nominated D. Keiser to be Secretary of the committee. M. Hope seconded the nomination. Paquet moved nominations be closed. A. Baughman seconded the motion. All present voted in favor. D. Keiser was elected Secretary.

Background Information
E. Seltzer referred the committee to their binders and indicated that her presentation would address two areas of information: 1) Past achievements in Emmet County, and 2) The present solid waste management system in Emmet County. Seltzer referred to the County Solid Waste Plan adopted in 1988 and presently operational, to the department's 1996 annual report, and to the background information included in the committee binders.

Seltzer described the programs provided by the Department of Public Works, including the extensive recycling program and the transfer station operations. She indicated that recycling was encouraged by the ordinance and that the 8% surcharge on solid waste supports the recycling program.

Solid Waste Planning (SWP) Process/SWP Players
Using an overhead projector Seltzer focused on several pages from the binder, including:

- Commonly Used Abbreviations
- Major Components of the Plan
- Resource Recycling Services information
- Committee Timeline

Pizzarro asked for additional information regarding the role of RRS. Seltzer discussed their role in relation to the seven counties involved and indicated that they would not seek or sign contracts but would make recommendations only. J. Erber inquired as to our share of the fee paid to RRS. Seltzer said that each county was paying $5,000.00. J. Hass inquired if RRS would be addressing county and business relations or strictly political relations with the counties. Seltzer indicated that RRS will be focusing on the requirements of the DEQ.

Committee Calendar
Seltzer distributed 1998 calendars, asking the committee to select a regular meeting date. It was decided to meet on the fourth Wednesday of each month.

The committee requested that they be provided copies of the county Ordinance and Administrative Rules. The committee additionally requested that staff provide them with all materials to be discussed prior to the meeting date when possible.

Public Comment
There was no public comment.

Adjourn
There being no further business, Chairperson J. Erber adjourned the meeting at 8:50 p.m.

Respectfully submitted,

Dennis Keiser, Secretary

Microsoft Word c:|\swpc\mnts0198.doc

Solid Waste Planning Committee

Meeting Notice:

Date: Wednesday, February 25, 1998
Time: 7:30 p.m.
Place: Emmet County Commissioners Board Room
200 Division Street
Petoskey, MI

Agenda:

1. **Call to Order**
2. **Minutes**
3. **Public Comment**
4. **Communications – DEQ, PRAC**
5. **Old Business – Alternates**
6. **New Business - Waste Flow Map**
   Waste Management Alternatives
7. **Other Business**
8. **Adjourn**

Note: Please call this office at 348-0640 if you are unable to attend this meeting

MINUTES
Emmet County
Solid Waste Planning Committee

February 25, 1998
Emmet County Building, 200 Division St., Petoskey MI

Committee Members Present	J. Erber, Chairperson; A. Smith, Vice Chairperson; A. Baughman; W. Goodwin; J. Hass; R. Hitz; M. Hope; R. Moreau; K. Paquet; D. Pizzurro; G. Williams.
Committee Members Absent	D. Keiser, J. Lively.
Staff Present	E. Seltzer, E. Preisman.
Call to Order	The meeting was called to order by Chairperson Erber at 7:30 p.m.

It was announced that D. Herberholtz would send a letter of resignation creating a waste management industry vacancy.

New committee member G. Williams was introduced. He will replace P. Desy.

J. Erber reviewed committee requests of staff from the previous meeting including:

- An inquiry regarding the appointment of alternates. E. Seltzer reported that alternates would not be appropriate for this committee.
- A request for the County Ordinance and Administrative rules. Both were mailed to committee members.
- A request that copies of all materials, especially those from Resource Recycling Systems, Inc. (RRSI), be sent to committee members as early as possible prior to the meetings. All materials were mailed prior to meeting.

Minutes
The minutes of the previous meeting were reviewed. W. Goodwin moved the minutes be accepted as presented. K. Paquet seconded the motion. All present voted in favor of the motion.

Public Comment
There was no public comment.

Communications
E. Seltzer reported that she had attended the planners council meeting where RRSI had made a presentation. Phillips from the Michigan Department of Environmental Quality was at the meeting and indicated that counties should begin negotiations immediately with other appropriate counties in order to ensure inclusion in their plans so that sufficient capacity is ensured. Seltzer mentioned Charlevoix, Presque Isle, and Crawford Counties as priority contacts for Emmet County.

E. Seltzer described House Bill 5284 and distributed three handouts as additional information. She mentioned that a public hearing would be held but no date had been set as yet.

Old Business
E. Seltzer repeated that the appointment of alternates would be inappropriate for this committee.

New Business
E. Seltzer distributed surveys from RRSI to all committee members. Participants were asked to complete the survey and return it to RRSI by March 6, 1998.

E. Seltzer reviewed the materials received from RRSI. Using an overhead projector Seltzer discussed:

- Projected Goals for Recycling,
- A Hierarchy of Solid Waste Management Techniques,
- Type II Disposal in North West Michigan Council of Governments (NWMCOG) Region, and
- Type III Disposal in NWMCOG Region.

Seltzer indicated that the materials from RRSI were not fully complete and that she had already identified several errors and questions. A careful review by the committee identified a wide variety of questions and concerns. E. Seltzer will forward the questions and concerns to RRSI.

There was an extensive discussion of volume-based waste contracts, solid waste alternatives, and residential programs. Page four was missing from members' packets and was distributed by Seltzer. Discussion of each page ensued, resulting in several requests for explanation and clarification from RRSI.

D. Pizzuro from Waste Management distributed a chart itemizing seasonal waste flow.

Other Business
E. Seltzer announced that the Alpena Solid Waste Planning Committee would be touring our Transfer Station and Recycling Facility on March 18, 1998. She also mentioned that there was strong interest in our Recycling Facility becoming a regional facility.

There was extensive narrative by representatives from the waste hauling industry regarding waste hauling and flow control.

Adjourn
There being no further business, Chairperson J. Erber adjourned the meeting at 10:00 p.m.

Respectfully submitted,

Ellen Preisman, Staff Recorder

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County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY MICHIGAN 49770
616 348-0640
FAX 616 348-0633

SOLID WASTE PLANNING COMMITTEE

Meeting Notice
Date: Wednesday, March 25, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
   - Solid Waste Management Alternatives
7. New Business
   - Goals and Objectives
   - Site Review Criteria
   - "Reciprocal" Solid Waste Disposal Agreements
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Supplemental materials from RRSI will be mailed when they arrive, along with other materials necessary for the committee meeting.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

MINUTES
Emmet County
Solid Waste Planning Committee

March 25, 1998
Emmet County Building, 200 Division St., Petoskey MI

Committee Members Present	J. Erber, Chairperson; D. Keiser; A. Baughman; W. Goodwin; J. Hass; R. Hitz; M. Hope; R. Moreau; K. Paquet.
Committee Members Absent	A. Smith, Vice Chairperson, J. Lively; D. Pizzurro; G. Williams
Staff Present	E. Seltzer, Department of Public Works (DPW); Max Putters, Planning and Zoning Department; Don Mapes, DPW; E. Preisman, DPW.
Call to Order	The meeting was called to order by Chairperson Erber at 7:35 p.m.

Roll Call
A roll call was conducted indicating members J. Lively; A. Smith, D. Pizzaro, and G. Williams absent.

Minutes
The minutes of the previous meeting were reviewed. A. Baughman moved the minutes be accepted as presented. W. Goodwin seconded the motion. All present voted in favor.

Public Comment
There was no public comment.

Communications
E. Seltzer distributed copies of four articles to the members and an additional questionnaire from Resource Recycling Systems, Inc. (RRSI). Seltzer additionally explained that RRSI would attend a full committee meeting with each county and that Emmet County could anticipate their meeting with us in the next two to three months. Prior to that time, RRSI would meet with our Executive Board.

Old Business

Seltzer directed members to numbers submitted by RRSI regarding waste generation amounts for our county. She asked that anyone with access to accurate numbers contact her. There was some questioning of the data as it now stood.

Utilizing the overhead projector, Seltzer reviewed the chart and supplemental information categorizing Northwest Michigan Council of Governments Region Solid Waste System Options. In general, it was determined that with the exception of a composting program we most comfortably fit with System Option D. Specifically, although some variance was always noted, we ranked ourselves as follows:

System name	System Option
Clean Community	Option E
Recycling Incentives	Option D
Drop Off Residential Recycling	Option D
Curbside Residential Recycling	Option C
Residential Yard Waste Composting	Option B
Commercial Recycling	Option D
Material Transfer and Processing	Option D/E
Disposal	Option D

There was substantial discussion regarding Present County and commercial programs and about possible future program ideas. There was recognition of deficiencies in some geographic areas. Composting was viewed as a major problem with general consensus that residents should be encouraged to leave grass clippings on their lawns. W. Goodwin described City of Petoskey programs. E. Seltzer indicated that she would provide copies of pertinent portions of the Emmet County Composting Study to committee members.

New Business

E. Seltzer distributed a draft of potential Goals and Objectives for our committee, asking that each member be prepared to discuss and make recommendations regarding them at the next meeting.

E. Seltzer distributed a handout on site review criteria from the 1988 Solid Waste Plan, a handout listing landfill options, and a model letter to other counties asking to be included in their plan. It was recommended that Wexford County be added to our list of potential contacts.

Seltzer alerted the committee to a recent solid waste landfill report compiled by the Michigan Department of Environmental Quality which will be utilized as a resource document.

Other Business

E. Seltzer reminded the committee of the RRSI questionnaire previously distributed and encouraged them to fill it out and to return it to RRSI. The Committee was reminded of the next meeting to be held April 22, 1998.

Adjourn

There being no further business, The meeting was adjourned by Chairperson Erber at 9:30 p.m.

Respectfully submitted,

Dennis Keiser, Secretary

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County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY, MICHIGAN 49770
616 / 348-0640
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SOLID WASTE PLANNING COMMITTEE

Meeting Notice

Date: Wednesday, April 22, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
   - Goals & Objectives
   - Landfill Capacity Strategy
   - Reciprocal Solid Waste Agreement
   - Siting Criteria for Disposal Areas
   - Solid Waste Management Alternatives
7. New Business
   - Proposed Selected Solid Waste Management System
   - Implementation and Organizational Issues
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Supplemental materials from RRSI will be mailed when they arrive, along with other materials necessary for the committee meeting.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Planning Committee Meeting
April 22, 1998

Members Present:	J. Erber, Chairman; A.Smith, Vice-Chair, D. Keiser, Secretary; J. Hass; D. Mapes; K. Paquet;; G. Williams;
Members Absent:	M. Hope; A. Baughman; R. Hitz; R. Moreau; W. Goodwin; D. Pizzurro J. Lively
Staff:	E. Seltzer

Call to Order
A. Smith called the meeting to order at 7:40 p.m.

Roll Call
Upon taking roll call, it was determined that there was no quorum for the meeting.

Adjourn
After some discussion, the meeting was adjourned by A. Smith at 8:35 p.m.

County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY, MICHIGAN 49770
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SOLID WASTE PLANNING COMMITTEE

Meeting Notice

Date: Wednesday, May 27, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
   - Goals & Objectives
   - Landfill Capacity Strategy
   - Proposed Selected Solid Waste Management System
   - Implementation and Organizational Issues
7. New Business
   - Expansion Costs
   - Regional Cooperation
   - Brian Gutowski - Road Commission
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Please note that supplemental materials from RRSI may not be received in time for this month's meeting.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Planning Committee Meeting
May 27, 1998

Members Present:	J. Erber, Chairman; A. Smith, Vice-Chair, D. Keiser, Secretary; A. Baughman; L. Blanchard; W. Goodwin; J. Hass; R. Hitz; D. Mapes; R. Moreau; K. Paquet; D. Pizzurro
Members Absent:	J. Lively; G. Williams
Staff:	E. Seltzer; M. Putters; E. Preisman
Other Attendees:	Emmet County Road Commission: J. Gray, T. Bushe, A. Pickarski, B. Gutowski. Resource Recycling Systems Incorporated Staff: K. Sandford, J. Frey.

Call to Order
The meeting was called to order by Chairperson Erber at 7:30 p.m. Chair Erber announced the resignation of Mike Hope and the appointment of Lisa Blanchard to fill the vacant seat.

Roll Call
The roll was called indicating the attendance noted above.

Minutes
The minutes of the March 25 meeting and the record of the April 22 meeting were reviewed. K. Pacquet moved the minutes be adopted as presented. W. Goodwin seconded the motion. All present voted in favor.

Public Comment
There was no public comment.

Deviation
Chairperson Erber announced that he would deviate from the agenda to allow sufficient time for presentations from the Road Commission and Resource Recycling Systems.

Emmet County Road Commission
Representatives of the Road Commission distributed and discussed materials including portions of the Michigan Vehicle Code (Act 300 of 1949); samples of test for Wheel Load Weigher Marked Class IV and sample forms for ticketing stops.

Road Commission Staff discussed their procedures and policies in regard to the stopping of trucks for weight violations and described their responsibility to protect the roads. The waste haulers representatives were encouraged to attend Road Commission meetings (9 a.m. every other Friday). Chairperson Erber thanked the representatives for attending the meeting and for their presentation.

Resource Recycling Systems
K. Sandford and J. Frey of Resource Recycling Systems (RRSI) indicated to the committee that they hoped after this discussion to leave with a clear consensus regarding the direction the

committee wished them to take based on an assessment of the materials previously submitted to them which would be reviewed today.

The previously received material titled Emmet County Solid Waste Plan System Alternatives was referenced as RRSI staff reviewed their preliminary recommendation with the committee culminating in the preliminary draft previously submitted as follows:

Years 1 through 4 of Planning Period

EMMET COUNTY SYSTEM ALTERNATIVE 1:

Expanded Clean Community and Curbside Recycling Program is adapted from System Option D in earlier material provided to all NWMCOG project participants. Key features include a Clean Community program that operates at highly effective levels. Incentives to recycle boost program performance, increasing tons and lowering unit costs. Expanded recycling drop-off capabilities at a flagship site (the Emmet County Recycling/Transfer Facility) increase options for recovering more materials. Further development of curbside programs for cities, villages, and towns increase convenience for large sector of population. Commercial recycling and commingled recycling processing capabilities are further developed and increase diversion. Organics management options exist throughout the year with addition of drop-offs for yard waste. A ban on certain materials being landfilled is targeted for 5 years away and is coordinated between the transfer station and other regional disposal options.

Years 5 through 10 of Planning Period

EMMET COUNTY SYSTEM ALTERNATIVE 2:

Expanded Clean Community and Comprehensive Recycling Program is adapted from System Option E. In earlier material provided to NWMCOG project participants. Comprehensive Clean Community program is operating at high level of effectiveness in all sectors. Bans of certain materials at area landfills (and transfer station) boost recycling program tonnage and lower unit costs. Incentives to recycling boost program performance, increasing tons, and lowering unit costs. Drop-off recycling system optimized for some cost savings as convenient recycling opportunities become common. Commercial recycling and C&D recycling begin to broaden business opportunities for diversion. 100% of yard waste diverted from Landfill disposal through collection programs or for diversion. 100% of yard waste diverted from landfill disposal through collection programs or source reduction. Material Recovery Facility/Transfer Station further developed to maximize system flexibility for cost savings and landfill diversion serving both residential and commercial sectors as well as special C&D waste streams and regional needs of nearby counties. Innovative techniques for increasing diversion or reducing system costs are explored building a strong

foundation for significantly lower reliance on landfills as primary means of waste management.

Sandford and Frey continued their presentation in discussions of materials titled *Management Strategy for Selected System–Implementing the Selected Alternative* stipulating the broad guidelines:

- Build on the strengths of your local/regional situation
- Recognize and address weaknesses
- Use organizational tools
- Tackle the funding question head-on
- Build community involvement, oversite, and support
- Take enforcement seriously
- Set measurable goals and track progress

It was suggested that the ordinance licensing model would be utilized in Emmet County building on our previously existing procedures.

After substantial discussion, there was general consensus in support of the preliminary draft presented by RRSI with enthusiasm for the more complete draft to be received based on this information.

Chairperson Erber thanked Sandford and Frey for their presentation.

Other Business

K. Pacquet requested to be placed on the agenda of next months meeting to present a proposal.

D. Pizzurro requested to be placed on the agenda to speak in opposition.

Don Mapes requested to be placed on the agenda to discuss the need for enforcement.

Chairperson Erber agreed with the above requests and reminded the committee that the next meeting would be held June 24, 1998.

Adjournment

There being no further business, chairperson Erber adjourned the meeting at 9:37 p.m.

Respectfully Submitted

Dennis Keiser
ep

Dennis Keiser
Secretary

County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY MICHIGAN 49770
616 / 348-0640
FAX 616 / 348-0633

SOLID WASTE PLANNING COMMITTEE

Meeting Notice

Date: Wednesday, June 24, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
   - RRSI revisions
7. New Business
   - United Waste Proposal - Ken Paquet
   - Waste Management Response - Don Pizzurro
   - Enforcement Issues - Don Mapes
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Please note that supplemental materials from RRSI for this month's meeting will be sent under separate cover.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Planning Committee Meeting
June 24, 1998

Members Present:	J. Erber, Chairperson; A. Smith, Vice-Chairperson, D. Keiser, Secretary; A. Baughman; L. Blanchard; J. Hass; J. Lively; D. Mapes; K. Pacquet; G. Williams
Members Absent:	W. Goodwin; R. Hitz; R. Moreau; D. Pizzurro
Staff Present:	E. Seltzer; M. Putters; E. Preisman
Other Attendees:	Public, R.J. Planisek, Mackinaw City; Resource Recycling Systems, Jim Frey, Kerry Sandford

Call to Order
Chairperson Erber called the meeting to order at 7:30 p.m. Committee member Jim Lively representing the Northwest Michigan Council of Governments was introduced to the committee. Lively's comments provided his perspective regarding the interest of other communities in the success of Emmet County's programs in recycling and funding.

Roll Call
The roll was called indicating the attendance noted above.

Minutes
The minutes of the previous meeting were reviewed. A. Smith moved the minutes be adopted as presented. A. Baughman seconded the motion. All present voted in favor.

Public Comment
There was no public comment.

Communications
E. Seltzer distributed two articles reporting the recent Minnesota case which was testing a flow control situation similar to Emmet County's. Seltzer reported that our letters had been mailed requesting reciprocal agreements with other counties where landfills are sited. She had received communications from Leelanau County containing reciprocal agreement language for solid waste disposal. Saginaw County wrote indicating that they would only be working with contiguous counties. Alpena County has requested comments on their plan.

Seltzer reported that HB 5382 might be reviewed in lame duck session and that it was important that the committee be aware of this continuing issue. Of additional note, Seltzer indicated that the Department of Public Works Board was presently considering contracting further with Resource Recycling Systems to continue work with our committee in the development of our plan.

Old Business

Resource Recycling Systems Revisions
K. Sandford and J. Frey directed the attention of the committee to two documents previously mailed to them: "Project Memo" dated May 13, 1998 and the draft "The Selected Solid Waste Management System" with its attendant evaluation. They reminded the committee that at the previous meeting they had been instructed by consensus to develop more specific materials for the development of the Solid Waste Plan based on their previous submittals and the suggestions of the committee. They requested similar direction after the presentation tonight.

The synopsis paragraphs indicate:

"...The Selected Solid Waste Management System (Selected System) is a comprehensive approach to managing Emmet 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 to area residents and businesses. Proposed disposal area locations and capacity to accept solid waste are identified as well as program management, funding, and enforcement roles for local agencies.

The County has selected a system alternative that is a combination of Alternative 1 and Alternative 2, modified to tailor the program specifics to the County's needs and phased in to allow system development to take place for the complete 10 year planning period.

During Years 1 through 4 of the Planning Period, the County will implement System Alternative 1 as follows:

EMMET COUNTY SYSTEM ALTERNATIVE 1:
Expanded Clean Community and Curbside Recycling Program: Key features include a Clean Community program that operates at highly effective levels making sure that disposal and recycling services are provided in all areas of the County. Incentives to recycle boost program performance, increasing tonnage and lowering unit costs. Expanded recycling drop-off capabilities at the Emmet County Recycling/Transfer Facility increase options for recovering more materials. Further work in development of curbside programs for cities, villages and towns is pursued in order to increase convenience for large sector of population. This is made possible by continued upgrading of the capabilities of the Recycling/Transfer facility to allow acceptance of recyclables that re more commingled than current practice allows. Commercial recycling is further developed to increase convenience and diversion. Organics management options are made available throughout the year with addition of one or more drop-offs for yard waste. A ban on certain materials being landfilled is evaluated and considered for a target period 5 years away should specific diversion levels not be reached. This is coordinated between the transfer station as well as the landfill used by the transfer station.

During Years 5 through 10 of the Planning Period the County will phase in System Alternative 2 as follows:

Emmet County System Alternative 2:
Comprehensive Clean Community program is expanded to service all sectors of waste generators. Bans on disposal of certain materials at the Recycling/Transfer facility (as well as area landfills) continue to be evaluated on a 1 year implementation timeline in order to continue to boost recycling program tonnage and lower unit costs. Documentation of achievement of specified diversion levels could delay or avoid the bans if desired. Incentives to recycle continue to be strengthened to boost program performance, increasing tons and lowering unit costs. Drop-off recycling system continues to be refined to maximize convenience and to fit with the level of curbside service usage documented in the

designated curbside service district. Commercial recycling and C&D recycling begin to broaden business opportunities for diversion. 100% of yard waste diverted from landfill disposal through collection programs or source reduction. The Material Recovery Facility/Transfer Station is further developed to maximize system flexibility for cost savings and landfill diversion serving both residential and commercial sectors as well as special C&D waste streams and regional needs of nearby counties. Innovative techniques for increasing diversion or reducing system costs are explored building a strong foundation for significantly lower reliance on landfills as primary means of waste management...."

The "Project Memo" indicated that there were additional recommendations around organizational issues based on the recommended System Alternatives. Overview categories included: (1) Budgeted Costs, (2) Funding Mechanisms, (3) Organizational/Management Structure.

After substantial discussion, questions and comment, D. Keiser moved that the preliminary draft be accepted as presented. G. Williams seconded the motion. Chairperson Erber called for a voice vote to support or reject the motion. All present voted aye; none voted nay. The motion passed.

New Business

United Waste Proposal

Ken Pacquet representing United Waste Systems of Onaway distributed copies of their proposal to the committee. The proposal for discussion was as follows (excerpt from memo)

"...We feel it is time to consider a change in the ordinance and allow for disposal at the transfer station when it makes economic sense, but also allow for direct landfill disposal when this method makers more economical sense.

Our proposal suggests you continue to set aside 8% of the tipping fee at the Transfer Station and allow the hauler to pay 8% of the $18.50 per yard or $1.45 per compacted yard directly to the county for waste hauled to outside landfills. The hauler would pay no less than the yardage hauled to the Transfer Station from June through December 1997 and the first 5 months of 1998.

...The fee wouldn't be put on demolition material or noncompactable yardage as it has not had a fee under the current ordinance. The $1.45 per compacted yard would be paid to the county by the 15th day of the month following the months [sic] service.

We also suggest at the time a $300,000 surplus is obtained in the recycling fund that 8% charge be taken off until the fund becomes less than $200,000. The $300,000 surplus should be adequate to maintain the on going Recycling Program.

This agreement would be invalid if the County were to enter into the collection of solid waste. The proposal we feel would benefit the consumer as well as the waste hauling companies doing business within Emmet County...."

Pacquet explained that he believed it a better system for the hauler to pay the surcharge to the county and then to take the waste directly to the landfill or to have the option of using the

Transfer Station when it made more economic sense. He expressed concern regarding the increasing surcharge and the potential for competition between the hauler and the Transfer Station.

D. Mapes expressed his concern regarding many enforcement issues that would be encountered with such a system.

E. Seltzer distributed an itemization of the Transfer Station and Recycling Center Budget and Volume Breakdowns illustrating the department's position that the Transfer Station would be jeopardized if such a system were implemented.

The comments from D. Pizzurro of Waste Management in opposition to the proposal were faxed to the committee and read by E. Seltzer.

After substantial discussion, D. Keiser made the following motion:

> "To maintain Emmet County's existing organizational and funding structure which includes licensing of solid waste haulers and flow control of solid waste to the Emmet County Transfer Station to ensure the funding of resource recovery programs."

Smith seconded the motion. Discussion: J. Hass indicated that he disagreed with the statement that the Transfer Station would be jeopardized. He believed that the proposal reflected a hidden tax and that Flow Control was illegal.

There being no further discussion, Chairperson Erber called for a roll call vote. The members voted as follows:

A. Baughman	Yes
L. Blanchard	Yes
J. Erber	Yes
J. Hass	No
D. Keiser	Yes
J. Lively	Yes
D. Mapes	Yes
K. Pacquet	No
A. Smith	Yes
G. Williams	Yes

With two (2) opposed and eight (8) in favor, the motion passed.

Other Business

It was announced that the next meeting would be held on July 22, 1998 at 7:30 p.m.

Adjournment

There being no further business the meeting was adjourned at 10:10 p.m.

Respectfully submitted

Dennis Keiser (cp)

Dennis Keiser, Secretary

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County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY, MICHIGAN 49770
616 / 348-0640
FAX 616 / 348-0633

SOLID WASTE PLANNING COMMITTEE

Meeting Notice

Date: Wednesday, July 22, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
   - RRSI revisions
7. New Business
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Please note that supplemental materials from RRSI for this month's meeting will be sent under separate cover.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Planning Committee Meeting
July 22, 1998

Members Present:	J. Erber, Chairperson; A. Smith, Vice-Chairperson; A. Baughman; L. Blanchard; W. Goodwin; R. Hitz; D. Mapes; R. Moreau; G. Williams
Members Absent:	D. Keiser, Secretary; J. Hass; J. Lively; K. Pacquet; D. Pizzurro
Staff Present:	E. Seltzer; M. Putters; E. Preisman
Other Attendees:	Public, Robert Hielmer; Resource Recycling Systems, Jim Frey

Call to Order
The meeting was called to order by Chairperson Erber at 7:35 p.m.

Roll Call
A roll call was conducted resulting in the above documentation of attendance.

Minutes
The minutes of the June 24, 1998 meeting were distributed and reviewed. A typographical error was detected on page two; 4th paragraph. L. Blanchard moved the minutes be accepted with the correction of the typographical error. A. Smith seconded the motion. All present voted in favor.

Public Comment
There was no public comment.

Communications
E. Seltzer discussed potential ramifications of a merger between Waste Management and U.S.A. Waste, including the potential of there being only one private landfill owner in Northern Michigan.

Seltzer indicated the receipt of a notice from the Department of Environmental Quality that they would now enforce restrictions regarding violations of County Solid Waste Plans. Some Emmet County waste had been reported as being disposed at the White Feather Landfill.

J. Erber read portions of an article regarding weight limits.

Old Business

E. Seltzer announced that an updated version of drafts plan had been received from Resource Recycling systems but had not as yet been copied for committee distribution. She also announced that the County Department of Public Works Board of Directors had approved the continuation of a working relationship with Resource Recycling Systems throughout the remaining planning process.

J. Frey of Resource Recycling Systems indicated that he would be distributing initial drafts of our plan at the next meeting and could anticipate a full draft ready for the September meeting. Thereafter, the work scope would include taking public and governmental comments and preparing a draft for the Michigan Department of Environmental Quality.

Seltzer and Frey led a discussion regarding alternatives for submittal timing using examples from other counties. It was emphasized that all local governments must be included in timely efforts to ensure their input.

New Business

J. Frey discussed potential landfill siting guidelines with the committee. He distributed the document "Solid Waste Plan and Siting Process Development Overview" and explained each section.

Other Business

E. Seltzer distributed copies of a Solid Waste Reciprocal Agreement from Leelanau County. After discussion A. Baughman moved that the committee recommend the Agreement to the County Commissioners. D. Mapes seconded the motion.

A. Smith recommended that the language of the agreement be amended to make it reciprocal. A. Baughman agreed to amend her motion (pending legal council).

Chairperson Erber called for a roll call vote which proceeded as follow: A. Baughman—yes, R. Hitz--yes, J. Erber—yes, R. Moreau—yes, L. Blanchard—yes, A. Smith—yes, G. Williams—yes, D. Mapes—yes, W. Goodwin—yes. With nine votes in favor and none opposed, the motion carried.

The next meeting, to be held August 26, 1998, was announced.

Adjournment

There being no further business, Chairperson Erber adjourned the meeting at 8:35 p.m.

Respectfully submitted

Ellen Preisman, Staff Recorder
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SOLID WASTE PLANNING COMMITTEE

Meeting Notice

Date: Wednesday, August 26, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
   - RRSI Draft Review
7. New Business
   - Tom Gallagher–Harbor Springs Excavating
   - Approval Process
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Please note that supplemental materials from RRSI for this month's meeting will be sent under separate cover.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Planning Committee Meeting
August 26, 1998

Members Present:	J. Erber, Chairperson; A. Smith, Vice-Chairperson; D. Keiser, Secretary; L. Blanchard; W. Goodwin; R. Hitz; D. Mapes; R. Moreau; G. Williams; K. Pacquet; J. Hass
Members Absent:	A. Baughman; J. Lively; D. Pizzurro
Staff Present:	E. Seltzer;
Other Attendees:	Public, Tom Gallagher, of Harbor Springs Excavating

Call to Order
The meeting was called to order by Chairperson Erber at 7:35 p.m.

Roll Call
A roll call was conducted resulting in the above documentation of attendance.

Minutes
The minutes of the July 22, 1998 meeting were distributed and reviewed. A. Smith moved the minutes be accepted. W. Goodwin seconded the motion. All present voted in favor.

Public Comment
Tom Gallagher, of Harbor Springs Excavating, commented on the recycling of tree stumps and grinding construction debris and possibly demolition. Needs commitment and help with logistics. Stumps can be dumped; he was permitted to maintain stump dump 8 years ago. DEQ states that stumps are not a concern. Stump dumping is allowed, but can not exceed one (1) acre, 20 feet deep, 4 feet from water table, or 10,000 cubic yards. Not a pollution problem. It does take land from tax base. Needs "physically enforceable law". Could pass more stringent laws, but wants the County to help enforce it. There would be a tipping charge for dumping, which could include a fee for county to help enforce - possibly $1.00 per yard. He also needs location(s). He is willing to lease land to set up 2 to 3 dump sites. Once he accumulated stumps, he could use a mobile unit to serve the sites by grinding stumps into chips or mulch. Top soil and mulch could be sold to public, or the County could claim ownership for it's own use. He felt it would be ideal to utilize existing control at the Transfer Station and use the landfill pad. He also thought the gravel pit in Levering would be a possible site, since it is already fenced in on the highway side, not the Reed Rd. side.

Topics of concern regarding stumps and construction debris:

1) Location
2) Enforcement of law
3) Need for new law(s)
4) Can program fly w/private funds? He believes so. If not, the program could be reevaluated after 5 year contract or lease.

New (clean) construction debris more valuable than stumps when ground. Reduce demo 3 to 1 with grinding. Flint and Grand Rapids do not allow stump dumps. $50.00 is charged for each stump. It is legal to burn here, but a burn ban has been in effect almost all summer.

Gallagher was encouraged to attend DPW board meeting set for third Tuesday in October, put on DPW agenda.

Communications

E. Seltzer passed around folder with written communications received since the last meeting.

Old Business

Resource Recycling Systems – presentation by Cathy Semer, will number tables and put in Table of Contents. C. Semer will respond to K. Pacquet's concerns regarding Section III – 24, which addresses the issue of all waste going to the Transfer Station, and qualifying language will be added. C. Semer to submit a revised draft within 2 weeks. Once the draft is approved for release by the committee, the 90 day public comment starts when the draft goes out and public hearing notices are posted in the newspaper. A date for the public hearing will be set at the next meeting.

New Business

There was no new business.

Other Business

A map of Northern Michigan landfills was handed out and the merger status was explained.

The next meeting, to be held September 23, 1998, was announced.

Adjournment

There being no further business, Chairperson Erber adjourned the meeting at 9:25 p.m.

Respectfully submitted

Elisa L Seltzer

Elisa Seltzer, Director of Emmet
County Department of Public Works
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SOLID WASTE PLANNING COMMITTEE

Meeting Notice

Date: Wednesday, September 23, 1998
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
   - RRSI Draft Review & Recommendation for Approval
7. New Business
   - Committee Representation at Townships/Cities/Villages
   - Revised Time Line
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Please note that supplemental materials from RRSI for this month's meeting will be sent under separate cover.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Planning Committee Meeting
September 23, 1998

Members Present:	J. Erber, Chairperson; A. Smith, Vice-Chairperson; D. Keiser, Secretary; A. Baughman; L. Blanchard; D. Mapes; R. Moreau; G. Williams; J. Hass; K. Pacquet
Members Absent:	W. Goodwin; R. Hitz; J. Lively; D. Pizzurro
Staff Present:	E. Seltzer
Other Attendees:	Jim Frey & Cathy Semer of RRSI

Call to Order
The meeting was called to order by Chairperson Erber at 7:40 p.m.

Roll Call
A roll call was conducted resulting in the above documentation of attendance.

Minutes
The minutes of the August 26, 1998 meeting were distributed and reviewed. K. Pacquet moved the minutes be approved. G. Williams seconded the motion.

Public Comment
There was no public comment.

Communications
E. Seltzer passed around folder with written communications received since the last meeting.

Old Business
The Emmet County Solid Waste Management Plan was reviewed by the committee. Jim Frey, of RRSI, presented the new section on Siting Review Procedures and Siting Criteria & Process, Section III-38-III-5O. G. Williams raised a question regarding archeological digs. Motion to approve plan for release for public comment was made by Blanchard. Vice-Chairperson Smith seconded the motion. A roll call vote was taken. All committee members present voted yes except for J. Hass, who voted no. The Solid Waste Management Plan was approved for a release date of October 1, 1998.

New Business
Calendars for the months of October through December of 1998, showing a schedule of the meetings to be held at the local municipalities, were passed around. E. Seltzer will be attending a meeting at each municipality and asked for Committee representation also. A sign up sheet was provided for committee members to sign up for any meeting(s) they would be able to attend. J. Frey commented to the committee on one issue; that if landfill sitingand operational issues are addressed in existing zoning ordinances, they must be attached as part of Section III-57 of the Solid Waste Management Plan, in order to recognized by the Department of Environmental Quality (DEQ) in the future. It was acknowledged that the support of 15 municipalities was needed to approve the Plan.

A revised time line was distributed to those present. It was determined that is was not necessary for the committee to meet in October or November for the scheduled meetings. The committee members were encouraged to attend the Public Hearing

Other Business
There was no further business.

Adjournment
There being no further business, Chairperson Erber adjourned the meeting at 9:20 p.m.

Respectfully submitted

Elisa L Seltzer

Elisa Seltzer, Director of Emmet
County Department of Public Works
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County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY, MICHIGAN 49770
616 348-0640
FAX 616 348-0633

October 1, 1998

Dear County, Township, Village and City Officials:

Enclosed for your review is Emmet County's Solid Waste Management Plan, which was approved for release by the Solid Waste Management Planning Committee for a 90-day Public Comment Period. Counties are required by the Michigan Department of Environmental Quality (MDEQ) per Solid Waste Act 153 to update their Solid Waste Plans every ten years.

While lengthy, the draft Solid Waste Plan contains important elements that will guide solid waste management over the next ten years. At a minimum, I recommend reading the Executive Summary found on pages 1-10, and then reviewing the table of contents and remaining pages for information you may find important. The County is required to document adequate landfill space for the amount of solid waste it will generate over the next ten years, and demonstrate efforts to reduce the waste stream by recycling, composting, and other resource recovery actions.

During the Public Comment Period, I will be attending township, village, and city meetings to provide an overview of the draft Plan and answer any questions or concerns. A Public Hearing will be held on Wednesday, December 2, 1998 in the Emmet County Commissioners' Board Room, 200 Division Street, Petoskey at 7:30 p.m. Written comments on the Plan may be directed to the Emmet County Department of Public Works, 200 Division Street, Petoskey, MI.

Following the Public Comment Period, which ends December 29, 1998, the Solid Waste Management Planning Committee will revise the Plan and submit it to the County Board of Commissioners for approval. Once approved, the revised Plan will be sent to all the townships, villages and cities in the county for their approval. A full 67% approval of all voting bodies in the County (15 of the 21 municipalities) is required for the MDEQ to consider the Plan for approval. If not locally approved, the MDEQ will write a Plan for the county with no local input.

Please call this office at (616) 348-0640 if you would like me to come and speak (or be available to answer questions) before your board or council before the end of the year. Remember that the Public Comment Period ends December 29, 1998, and the Public Hearing is December 2, 1998.

Thank you for your consideration.

Sincerely,

Elisa L. Seltzer

Elisa Seltzer
Director

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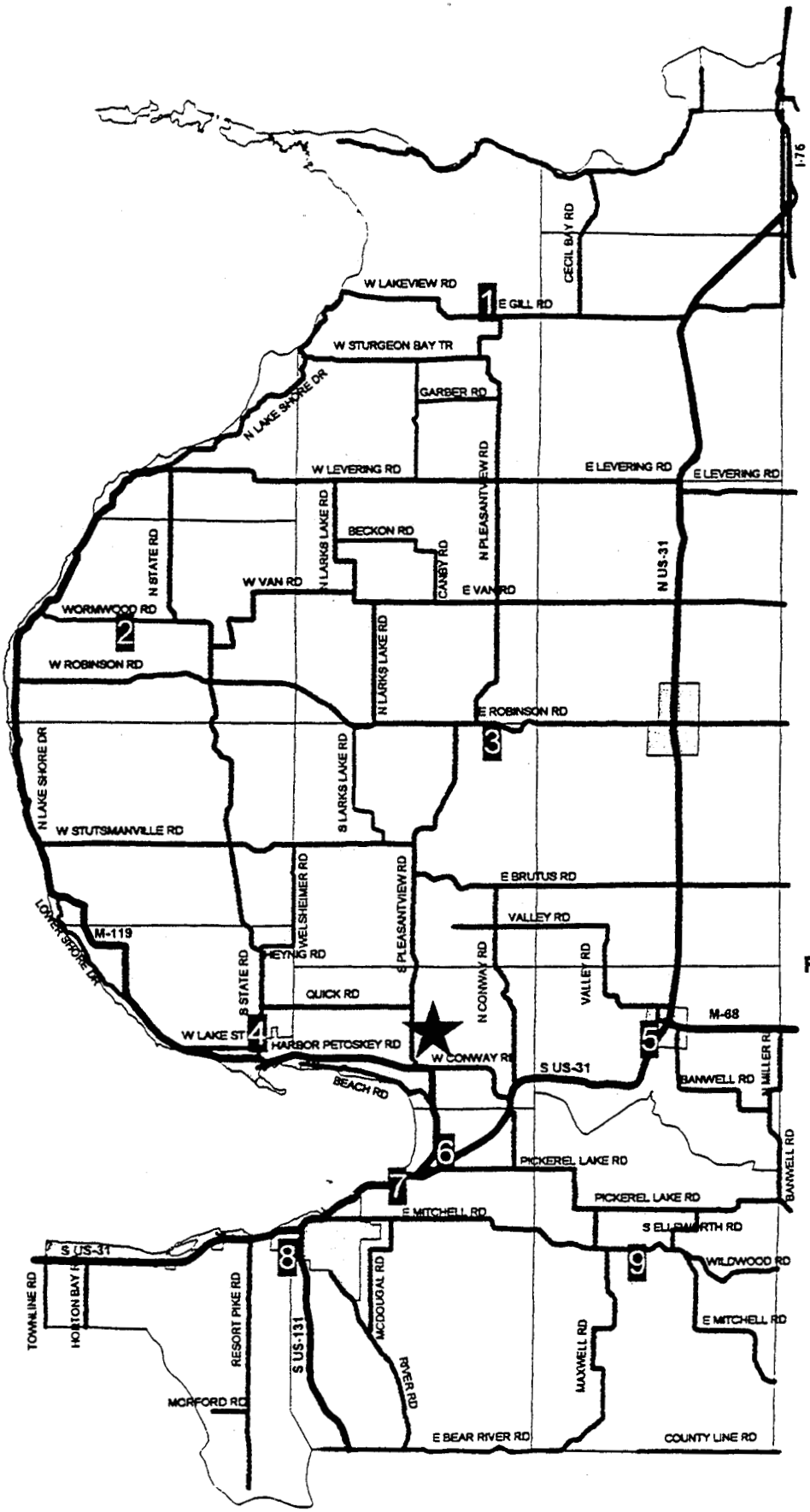
ATTACHMENT C

MAPS

Emmet County Recycling Center Drop-Off Sites



Legend

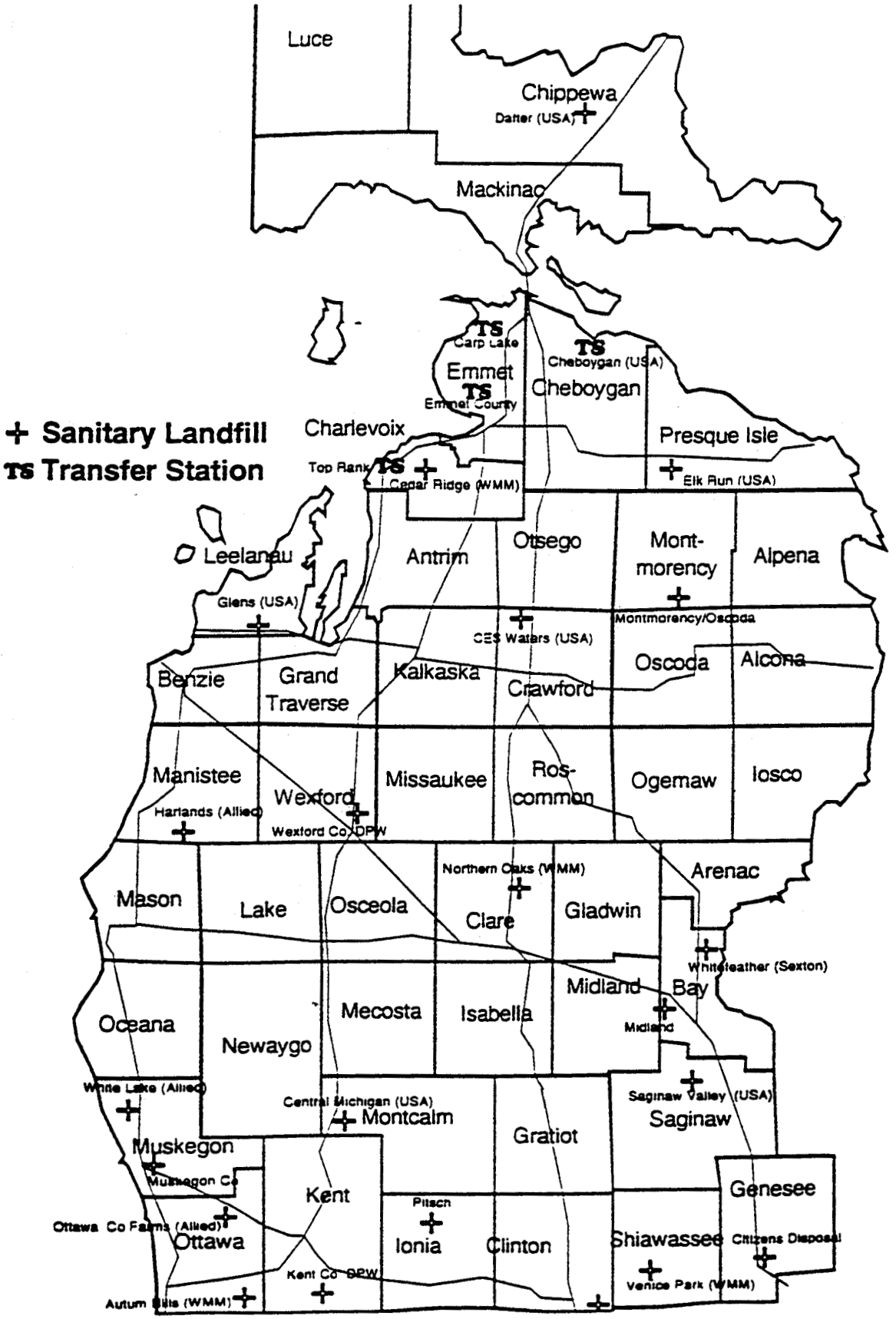
★ Emmet County Recycling Center and Transfer Station 7363 Pleasantview Rd

1. Bliss (Pleasantview Rd & Gill Rd)
2. Readmond Township Hall
3. Robinson Rd (at Pleasantview Rd)
4. Harbor Springs (IGA)
5. Alanson Department of Public Works (Milton Rd)
6. Toski Sands (in back)
7. Bay View (Glen's North)
8. Petoskey (behind Carter's)
9. Springvale Township Hall

For Recycling Information Call the Emmet County Department of Public Works at 616-348-0640

This map produced by the Emmet County GIS Computer Mapping Department

Landfills & Transfer Stations Potentially Serving Emmet County



ATTACHMENT D

INTER-COUNTY AGREEMENTS

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ATTACHMENT E

DETAILED POPULATION DATA

Permanent Population of Emmet County

Municipality	1990 pop	90-96 change	96/90 ratio	annual growth	ECPD growth descr.	ECPD ann. growth	1998 lin	2003 lin	2008 lin	98 projected	03 projected	08 projected
Bear Creek township	3469	50	1.0144	1.0023	grow	1.010	3756	3948	4149	3868	4028	4172
Bliss township	483	78	1.1615	1.0242		1.015	544	586	631	560	598	635
Carp Lake township	597	97	1.1625	1.0244		1.015	673	724	780	693	739	785
Center township	517	48	1.0928	1.0143		1.010	560	588	618	576	600	622
Cross Village township	201	33	1.1642	1.0246		1.015	226	244	263	233	249	264
Friendship township	591	96	1.1624	1.0244		1.015	666	717	773	686	732	777
Harbor Springs city	1540	-24	0.9844	0.9975		0.995	1479	1443	1407	1523	1472	1415
Alanson village	677	18	1.0266	1.0042		1.005	705	722	741	726	737	745
Balance of Littlefield township	1633	264	1.1617	1.0243		1.015	1840	1982	2135	1894	2022	2147
Little Traverse township	1805	290	1.1607	1.0241		1.015	2033	2190	2360	2094	2235	2373
Pellston village (pt.)	504	12	1.0238	1.0038		1.005	525	538	551	540	549	554
Balance of McKinley township	576	92	1.1597	1.0240		1.015	649	699	753	668	713	757
Pellston village (pt.)	79	2	1.0253	1.0040		1.000	79	79	79	81	81	79
Balance of Maple River township	664	108	1.1627	1.0244		1.015	748	806	868	770	822	873
Petoskey city	6056	1185	1.1957	1.0290		1.015	6822	7349	7917	7025	7499	7961
Pleasantview township	375	60	1.1600	1.0240		1.015	422	455	490	435	464	493
Readmond township	374	60	1.1604	1.0241		1.015	421	454	489	434	463	492
Resort township	2068	79	1.0382	1.0060		1.005	2152	2207	2262	2216	2251	2275
Springvale township	1300	210	1.1615	1.0242		1.015	1464	1578	1700	1508	1610	1709
Mackinaw City village (pt.)	467	42	1.0899	1.0139	grow	1.010	506	531	559	521	542	562
Balance of Wawatam township	96	16	1.1667	1.0250		1.015	108	117	126	111	119	126
West Traverse township	968	14	1.0145	1.0023		1.005	1007	1033	1059	1037	1054	1065
Emmet County Total	*25040*	*2830*	*1.1130*	*1.0173*			*27386*	*28990*	*30710*	***28200***	***29580***	***30880***
Michigan DMB Estimates							28200	29580	30880			

1998 Estimated Seasonal Population													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Seasonal Multiplier		*1.11*	*1.12*	*1.13*	*1.11*	*1.16*	*1.37*	*1.38*	*1.39*	*1.18*	*1.17*	*1.15*	*1.14*	*1.20*
Bear Creek township		4294	4332	4371	4294	4487	5299	5338	5377	4564	4526	4448	4410	4645
Bliss township		622	628	633	622	650	768	773	779	661	656	644	639	673
Carp Lake township		769	776	783	769	803	949	956	963	817	810	796	789	832
Center township		640	646	651	640	669	790	796	801	680	674	663	657	692
Cross Village township		259	261	263	259	270	319	322	324	275	273	268	266	280
Friendship township		761	768	775	761	795	939	946	953	809	802	788	782	823
Harbor Springs city		1691	1706	1721	1691	1767	2087	2102	2118	1798	1782	1752	1737	1829
Alanson village		805	813	820	805	842	994	1001	1008	856	849	834	827	871
Balance of Littlefield township		2103	2122	2140	2103	2197	2595	2614	2633	2235	2216	2178	2159	2275
Little Traverse township		2324	2345	2366	2324	2429	2868	2889	2910	2471	2450	2408	2387	2514
Pellston village (pt.)		600	605	610	600	627	740	745	751	637	632	621	616	649
Balance of McKinley township		742	748	755	742	775	915	922	929	788	782	768	762	802
Pellston village (pt.)		90	91	92	90	94	111	112	113	96	95	94	93	98
Balance of Maple River township		855	863	870	855	893	1055	1063	1071	909	901	886	878	925
Petoskey city		7798	7868	7938	7798	8149	9624	9694	9764	8289	8219	8079	8008	8436
Pleasantview township		483	487	492	483	505	596	600	605	513	509	500	496	522
Readmond township		482	486	490	482	503	594	599	603	512	508	499	495	521
Resort township		2460	2482	2504	2460	2571	3036	3058	3080	2615	2593	2549	2526	2661
Springvale township		1674	1689	1704	1674	1749	2066	2081	2096	1779	1764	1734	1719	1811
Mackinaw City village (pt.)		578	583	588	578	604	713	719	724	614	609	599	594	625
Balance of Wawatam township		124	125	126	124	129	153	154	155	131	130	128	127	134
West Traverse township		1151	1162	1172	1151	1203	1421	1432	1442	1224	1214	1193	1183	1246
Emmet County Total		31302	31584	31866	31302	32712	38634	38916	39198	33276	32994	32430	32148	33864

1998 Estimate Waste Generation, tons														
	mult.*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total, tpy
Bear Creek township	3.0	200	182	18	193	209	238	248	250	205	210	200	205	*2359*
Bliss township	2.6	25	23	19	24	26	30	31	31	26	26	25	26	*312*
Carp Lake township	2.6	31	28	20	30	32	37	39	39	32	33	31	32	*383*
Center township	2.6	26	24	21	25	27	31	32	32	27	27	26	26	*323*
Cross Village township	2.6	10	10	22	10	11	12	13	13	11	11	10	11	*144*
Friendship township	2.6	31	28	23	30	32	37	38	38	32	32	31	31	*382*
Harbor Springs city	3.0	79	72	24	76	82	94	98	98	81	83	79	81	*946*
Alanson village	2.6	32	30	25	31	34	39	40	41	33	34	33	33	*405*
Balance of Littlefield township	2.6	85	77	26	82	89	101	105	106	87	89	85	87	*1019*
Little Traverse township	2.6	94	85	27	91	98	112	116	117	96	99	94	96	*1125*
Pellston village (pt.)	2.6	24	22	28	23	25	29	30	30	25	25	24	25	*311*
Balance of McKinley township	2.6	30	27	29	29	31	36	37	37	31	32	30	31	*379*
Pellston village (pt.)	2.6	4	3	30	4	4	4	5	5	4	4	4	4	*72*
Balance of Maple River township	2.6	34	31	31	33	36	41	43	43	35	36	35	35	*435*
Petoskey city	3.0	363	330	32	351	379	433	451	454	373	382	364	372	*4283*
Pleasantview township	2.6	19	18	33	19	20	23	24	24	20	21	20	20	*261*
Readmond township	2.6	19	18	34	19	20	23	24	24	20	20	19	20	*261*
Resort township	2.6	99	90	35	96	104	118	123	124	102	104	99	102	*1197*
Springvale township	2.6	67	61	36	65	70	81	84	84	69	71	68	69	*827*
Mackinaw City village (pt.)	2.6	23	21	37	23	24	28	29	29	24	25	23	24	*310*
Balance of Wawatam township	2.6	5	5	38	5	5	6	6	6	5	5	5	5	*96*
West Traverse township	2.6	46	42	39	45	48	55	58	58	48	49	47	48	*583*
Emmet County Total	2.65	*1347*	*1228*	*617*	*1303*	*1408*	*1609*	*1675*	*1687*	*1386*	*1420*	*1350*	*1383*	*16411*

*Waste Gen. Multiplier is presently 2.0 pounds per person per day for rural areas, 2.6 pppd for urban areas.

2003 Estimated Seasonal Population

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Bear Creek township	4471	4512	4552	4471	4673	5519	5559	5599	4753	4713	4633	4592	4837
Bliss township	664	670	676	664	694	819	825	831	706	700	688	682	718
Carp Lake township	821	828	835	821	858	1013	1020	1028	872	865	850	843	888
Center township	666	672	678	666	696	822	828	835	708	702	690	684	721
Cross Village township	276	279	281	276	289	341	343	346	294	291	286	284	299
Friendship township	812	820	827	812	849	1003	1010	1017	864	856	842	834	879
Harbor Springs city	1634	1649	1664	1634	1708	2017	2032	2046	1737	1722	1693	1678	1768
Alanson village	818	825	833	818	855	1010	1017	1024	870	862	848	840	885
Balance of Littlefield township	2244	2265	2285	2244	2346	2770	2790	2811	2386	2366	2325	2305	2428
Little Traverse township	2481	2503	2526	2481	2593	3062	3084	3107	2637	2615	2570	2548	2684
Pellston village (pt.)	609	615	620	609	636	752	757	763	647	642	631	626	659
Balance of McKinley township	792	799	806	792	827	977	984	991	842	834	820	813	856
Pellston village (pt.)	89	90	91	89	94	110	111	112	95	94	93	92	97
Balance of Maple River township	913	921	929	913	954	1126	1135	1143	970	962	946	937	987
Petoskey city	8324	8399	8474	8324	8699	10273	10348	10423	8849	8774	8624	8549	9005
Pleasantview township	515	520	525	515	539	636	641	645	548	543	534	529	558
Readmond township	514	519	523	514	537	634	639	644	546	542	533	528	556
Resort township	2499	2522	2544	2499	2612	3084	3107	3129	2657	2634	2589	2567	2704
Springvale township	1787	1803	1819	1787	1867	2205	2221	2237	1899	1883	1851	1835	1933
Mackinaw City village (pt.)	602	607	613	602	629	743	748	754	640	634	624	618	651
Balance of Wawatam township	132	133	134	132	138	163	164	165	140	139	137	136	143
West Traverse township	1170	1180	1191	1170	1222	1444	1454	1465	1244	1233	1212	1201	1265
Emmet County Total	*32834*	*33130*	*33425*	*32834*	*34313*	*40525*	*40820*	*41116*	*34904*	*34609*	*34017*	*33721*	*35521*

2003 Estimate Waste Generation, tons

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total, tpy
Bear Creek township	208	210	212	208	217	257	258	260	221	219	215	214	*2699*
Bliss township	27	27	27	27	28	33	33	34	28	28	28	27	*347*
Carp Lake township	33	33	34	33	35	41	41	41	35	35	34	34	*429*
Center township	27	27	27	27	28	33	33	34	29	28	28	28	*349*
Cross Village township	11	11	11	11	12	14	14	14	12	12	12	11	*145*
Friendship township	33	33	33	33	34	40	41	41	35	35	34	34	*425*
Harbor Springs city	76	77	77	76	79	94	94	95	81	80	79	78	*986*
Alanson village	33	33	34	33	34	41	41	41	35	35	34	34	*428*
Balance of Littlefield township	90	91	92	90	95	112	112	113	96	95	94	93	*1174*
Little Traverse township	100	101	102	100	104	123	124	125	106	105	104	103	*1298*
Pellston village (pt.)	25	25	25	25	26	30	31	31	26	26	25	25	*319*
Balance of McKinley township	32	32	32	32	33	39	40	40	34	34	33	33	*414*
Pellston village (pt.)	4	4	4	4	4	4	4	5	4	4	4	4	*47*
Balance of Maple River township	37	37	37	37	38	45	46	46	39	39	38	38	*477*
Petoskey city	387	391	394	387	404	478	481	485	411	408	401	398	*5025*
Pleasantview township	21	21	21	21	22	26	26	26	22	22	22	21	*270*
Readmond township	21	21	21	21	22	26	26	26	22	22	21	21	*269*
Resort township	101	102	103	101	105	124	125	126	107	106	104	103	*1307*
Springvale township	72	73	73	72	75	89	90	90	77	76	75	74	*935*
Mackinaw City village (pt.)	24	24	25	24	25	30	30	30	26	26	25	25	*315*
Balance of Wawatam township	5	5	5	5	6	7	7	7	6	6	6	5	*69*
West Traverse township	47	48	48	47	49	58	59	59	50	50	49	48	*612*
Emmet County Total	*1413*	*1425*	*1438*	*1413*	*1476*	*1744*	*1756*	*1769*	*1502*	*1489*	*1464*	*1451*	*18339*

*Waste Gen. Multiplier is presently 2.0 pounds per person per day for rural areas, 2.6 ppppd for urban areas.

2008 Estimated Seasonal Population	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Bear Creek township	4631	4673	4715	4631	4840	5716	5758	5800	4923	4882	4798	4757	5010
Bliss township	705	711	717	705	737	870	876	883	749	743	730	724	762
Carp Lake township	871	879	887	871	910	1075	1083	1091	926	918	903	895	942
Center township	690	696	703	690	721	852	858	864	734	728	715	709	747
Cross Village township	293	296	299	293	307	362	365	367	312	309	304	301	317
Friendship township	862	870	878	862	901	1064	1072	1080	917	909	893	886	933
Harbor Springs city	1571	1585	1599	1571	1641	1938	1953	1967	1670	1655	1627	1613	1699
Alanson village	827	834	841	827	864	1020	1028	1035	879	871	856	849	894
Balance of Littlefield township	2383	2404	2426	2383	2490	2941	2962	2984	2533	2512	2469	2447	2578
Little Traverse township	2634	2658	2681	2634	2752	3251	3274	3298	2800	2776	2729	2705	2849
Pellston village (pt.)	615	621	626	615	643	760	765	771	654	649	638	632	666
Balance of McKinley township	840	848	856	840	878	1037	1045	1052	893	886	871	863	
Pellston village (pt.)	88	89	90	88	92	109	110	110	94	93	91	91	95
Balance of Maple River township	969	978	986	969	1013	1196	1205	1213	1030	1021	1004	995	1048
Petoskey city	8837	8916	8996	8837	9235	10907	10986	11066	9394	9314	9155	9076	9560
Pleasantview township	547	552	557	547	572	675	680	685	582	577	567	562	592
Readmond township	546	551	556	546	570	674	678	683	580	575	565	560	590
Resort township	2525	2548	2570	2525	2639	3116	3139	3162	2684	2661	2616	2593	2732
Springvale township	1897	1914	1931	1897	1982	2341	2358	2375	2017	1999	1965	1948	2052
Mackinaw City village (pt.)	623	629	635	623	652	770	775	781	663	657	646	640	674
Balance of Wawatam township	140	141	143	140	146	173	174	175	149	148	145	144	152
West Traverse township	1182	1193	1203	1182	1235	1459	1469	1480	1256	1246	1224	1214	1279
Emmet County Total	*34277*	*34586*	*34894*	*34277*	*35821*	*42306*	*42614*	*42923*	*36438*	*36130*	*35512*	*35203*	*36172*

2008 Estimate Waste Generation, tons	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total, tpy
Bear Creek township	215	196	219	208	225	257	268	270	222	227	216	221	*2745*
Bliss township	28	26	29	27	30	34	35	36	29	30	28	29	*362*
Carp Lake township	35	32	36	34	37	42	44	44	36	37	35	36	*447*
Center township	28	25	28	27	29	33	35	35	29	29	28	29	*355*
Cross Village township	12	11	12	11	12	14	15	15	12	12	12	12	*151*
Friendship township	35	32	35	34	36	42	43	44	36	37	35	36	*443*
Harbor Springs city	73	67	74	71	76	87	91	91	75	77	73	75	*931*
Alanson village	33	30	34	32	35	40	41	42	34	35	33	34	*425*
Balance of Littlefield township	96	88	98	93	100	115	119	120	99	101	96	99	*1224*
Little Traverse township	106	97	108	103	111	127	132	133	109	112	106	109	*1353*
Pellston village (pt.)	25	23	25	24	26	30	31	31	26	26	25	25	*316*
Balance of McKinley township	34	31	34	33	35	40	42	42	35	36	34	35	*432*
Pellston village (pt.)	4	3	4	3	4	4	4	4	4	4	4	4	*45*
Balance of Maple River township	39	36	40	38	41	47	49	49	40	41	39	40	*498*
Petoskey city	411	374	418	398	429	491	511	515	423	433	412	422	*5237*
Pleasantview township	22	20	22	21	23	26	27	28	23	23	22	23	*281*
Readmond township	22	20	22	21	23	26	27	28	23	23	22	23	*280*
Resort township	102	93	104	98	106	122	127	127	105	107	102	105	*1297*
Springvale township	76	70	78	74	80	91	95	96	79	81	77	79	*974*
Mackinaw City village (pt.)	25	23	26	24	26	30	31	31	26	26	25	26	*320*
Balance of Wawatam township	6	5	6	5	6	7	7	7	6	6	6	6	*72*
West Traverse township	48	43	48	46	50	57	59	60	49	50	48	49	*607*
Emmet County Total	*1475*	*1344*	*1501*	*1427*	*1541*	*1761*	*1833*	*1847*	*1517*	*1554*	*1478*	*1514*	*18793*

*Waste Gen. Multiplier is presently 2.0 pounds per person per day for rural areas, 2.6 ppppd for urban areas.

Emmet County Residential Waste Projections Summary

Municipality	**1998**	**2003**	**2008**
Bear Creek township	2359	2699	2745
Bliss township	312	347	362
Carp Lake township	383	429	447
Center township	323	349	355
Cross Village township	144	145	151
Friendship township	382	425	443
Harbor Springs city	946	986	931
Alanson village	405	428	425
Balance of Littlefield township	1019	1174	1224
Little Traverse township	1125	1298	1353
Pellston village (pt.)	311	319	316
Balance of McKinley township	379	414	432
Pellston village (pt.)	72	47	45
Balance of Maple River township	435	477	498
Petoskey city	4283	5025	5237
Pleasantview township	261	270	281
Readmond township	261	269	280
Resort township	1197	1307	1297
Springvale township	827	935	974
Mackinaw City village (pt.)	310	315	320
Balance of Wawatam township	96	69	72
West Traverse township	583	612	607
Emmet County Total	***16411***	***18339***	***18793***
	tons/year	*tons/year*	*tons/year*

ATTACHMENT F

SPECIAL CONDITIONS

ATTACHMENT F: Special Conditions

Flows of solid waste between counties including those covered by the Inter-County Agreements that the County may negotiate must be consistent with the following special conditions affecting import or export of solid waste and must be consistent with all other aspects of the Plan.

Section III Table 1-B Attachments Section

CONDITIONS FOR FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE CONTINGENT ON NEW FACILITIES BEING SITED

Up to 100% of Type II and Type III solid waste will be able to be imported from a listed county to a future landfill to be located at the County Selected Site (see Siting Review Procedures Section) and then only if the exporting county and Emmet County sign an intergovernmental contract that includes two key provisions; 1) exporting county must have arranged to provide comprehensive waste management services to their residential households and businesses including recycling services, composting services, household hazardous waste collection services and business waste assessment services; and 2) a specific authorized daily and annual quantity of waste to be imported is negotiated, potentially up to 100% of the Type II and Type III solid waste generated in the exporting county.

Section III Table 2-A Attachments Section

CONDITIONS FOR CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

Export of Type II and Type III waste will be allowed to the identified counties only if such waste collected for export is collected in compliance with all applicable laws, ordinances, rules and regulations of the Emmet County Solid Waste Management System, Ordinance and Intergovernmental Agreement consistent with the Plan's Enforceable Program. Construction and demolition waste as well as special industrial waste shall be exempt from these conditions. All other wastes will be exempt from these conditions only on a temporary basis in the event of a temporary shutdown of the solid waste transfer facilities provided for in the selected alternative of the Plan's Enforceable Program and then only until such time that those facilities again begin to operate. The export of solid waste out of the State of Michigan shall be allowed as provided by federal or state law.

Section III Table 2-B Attachments Section

CONDITIONS FOR FUTURE EXPORT VOLUME AUTHORIZATION OF SOLID WASTE CONTINGENT ON NEW FACILITIES BEING SITED

Export of Type II and Type III waste will be allowed to the identified counties only if such waste collected for export is collected in compliance with all applicable laws, ordinances, rules and regulations of the Emmet County Solid Waste Management System, Ordinance and Intergovernmental Agreement consistent with the Plan's Enforceable Program. Construction and demolition waste as well as special industrial waste shall be exempt from these conditions. All other wastes will be exempt from these conditions only on a temporary basis in the event of a temporary shutdown of the solid waste transfer facilities provided for in the selected alternative of the Plan's Enforceable Program and then only until such time that those facilities again begin to operate. The export of solid waste out of the State of Michigan shall be allowed as provided by federal or state law.

ATTACHMENT G

EMMET COUNTY SOLID WASTE ORDINANCE

AND

INTERGOVERNMENTAL AGREEMENT

ORDINANCE NO. 20
May 16, 1991

AN ORDINANCE TO REGULATE THE COLLECTION, TRANSPORTATION, DELIVERY AND DISPOSAL OF SOLID WASTE, AND RECYCLABLE MATERIALS; TO REQUIRE THE LICENSING OF WASTE HAULERS; TO ESTABLISH PRE-COLLECTION REQUIREMENTS; TO PROHIBIT ROADSIDE DUMPING OF REFUSE; AND TO PROVIDE PENALTIES FOR VIOLATIONS THEREOF.

Section 1: Definitions
Section 2: Licensing of Haulers
Section 3: Conditions of Hauler License
Section 4: Proper Disposal of Refuse
Section 5: Refuse Container Specifications
Section 6: Bag, Tag and Sticker Specifications and Uses
Section 7: Disposal of Solid Waste
Section 8: Miscellaneous

THE COUNTY OF EMMET ORDAINS:

SECTION 1

DEFINITIONS

1.1 Definitions. For purposes of this Ordinance, the words and phrases listed below shall have the following meanings:

1) "Act 641" means Act No. 641 of the Public Acts of Michigan, 1978, the Solid Waste Management Act, as amended.

2) "Administrator" means the Director of the Emmet County Department of Public Works or other person as appointed by the County Board to administer or enforce the elements of this ordinance.

3) "County Board" means the County Board of Commissioners of Emmet County.

4) "Container Pick-up" refers to the collection of refuse from one container on one day.

5) "County" means the County of Emmet, Michigan, acting by and through it's County Board.

6) "County Approved Refuse Container" means a container meeting all the specifications set forth in this Ordinance.

7) "County-Designated Facility" means a facility which the County has identified in the administrative rules as an approved location for the disposal of refuse including any of the following: 1) a solid waste transfer facility, 2) a sanitary landfill, 3) a solid waste processing plant, or 4) any other solid waste handling facility utilized in the transfer or disposal of solid waste.

8) "County Refuse Bag" means a bag which is sold by Emmet County suitable for use as a residential refuse container. Refuse placed for collection must be placed in a valid County Refuse bag unless a valid County Refuse Tag or Sticker has been adhered to each refuse container placed for collection within the County. A bag is valid for a single residential container pick-up with a capacity of 30 gallons or less. A new bag must be used for each subsequent container pickup.

9) "County Refuse Sticker" means a self adhering label which is sold by Emmet County suitable for use with residential refuse containers. A valid County Refuse Tag or Sticker must be adhered to any refuse container which is placed for collection within the County unless placed in a valid County Refuse Bag. A sticker is valid for a period of time as specified by the DPW Board.

10) "County Refuse Tag" means a tag or ticket which is sold by Emmet County suitable for use with residential refuse containers. A valid County Refuse Tag or Sticker must be adhered to any refuse container which is placed for collection within the County unless placed in a valid County Refuse Bag. A tag is valid for a single residential container pick-up with a capacity of 30 gallons or less. A new tag must be attached to each additional 30 gallons of capacity and each subsequent container pickup.

11) "Demolition and Construction Debris" means a type of solid waste consisting of waste building materials and rubble resulting from construction, remodeling, repair and demolition operations on houses, commercial buildings and other structures. Demolition and construction debris includes trees, stumps, and brush removed from property during demolition, construction, remodeling, maintenance or repair. Demolition and construction debris does not include any of the following, which is subject to flow control even if it results from construction, remodeling, repair and demolition of structures which includes: (a) garbage, (b) furniture and (c) solid waste resulting from a processing technique that renders individual waste components unrecognizable, such as pulverizing or shredding. It also does not include any of the following which may require special disposal considerations: (a) asbestos waste, (b) drums and containers, (c) fuel tanks, (d) corrugated container board, and (e) appliances.

12) "DPW Board" means the Department of Public Works Board of Emmet County.

13) "Effective Operation Date" means the date when, all solid waste generators within Emmet County are required to bring their refuse to a County-Designated Facility.

14) "Hazardous Waste" means hazardous waste as defined in Act No. 64 of the Public Acts of Michigan, 1979, as amended, and as identified in administrative rules promulgated pursuant to said Act by the Director of the Michigan Department of Natural Resources. See Attachment A.

15) "Individual" means Person who transports solid waste who is not a licensed waste hauler.

16) "Local Unit of Government" means a city, village, township or charter township with legal status within Emmet County.

17) "Person" means any individual, firm, public or private corporation, partnership, trust, public or private agency or any other entity or any group of such persons.

18) "Premises" means a parcel of land, including any building or structures located thereon, within Emmet County used for residential, commercial, industrial or institutional purposes either separately or in combination to which a separate street address, postal address or box, tax roll description, or other similar identification has been assigned to or is in use by a person having control of the area.

19) "Recyclable Material" means material (or articles separated for the express purpose of preparation and delivery to a secondary market or other legitimate end use) such as newspaper, corrugated cardboard, magazines, computer print-out paper, office paper, glass containers, high density and low density polyethylene containers (HDPE and LDPE), polyethylene terephthalate (PET) containers, tin cans, ferrous metal and nonferrous metal.

20) "Refuse" for all purposes of this Ordinance, shall have the same meaning as Solid Waste.

21) "Rural" means any unit of local government within Emmet County which has legal status as a township, except for a charter township.

22) "Solid Waste" means solid waste as defined in Section 7(1) of Act 641, as amended. See Attachment B.

23) "Source Separated Recyclables" means recyclable materials which have been kept separate from refuse and have been prepared for disposal according to administrative rules for participation in County recycling programs.

24) "Special Refuse" means furniture, household appliances, brush, large tree limbs and other bulky refuse items, with the exception of construction and demolition debris.

25) "Tipping Fee" means a fee established by the County to be charged upon delivery of solid waste or recyclable materials to a County-designated disposal facility.

26) "Urban" means any unit of local government which has legal status as a city, village or charter township.

27) "Waste Hauler" means any person engaged in whole or in part in the business of collecting, transporting, delivering, or disposing of solid waste within the County other than the refuse generated by the person so hauling.

28) "Yard Waste" means leaves, grass clippings, vegetable or other garden debris, shrubbery or brush or tree trimmings that can be converted to compost humus. This term does not include stumps, agricultural wastes, animal waste, roots, sewage sludge or garbage.

SECTION 2

LICENSING OF HAULERS

2.1 Hauler License. No person, firm or corporation shall engage in the business of collecting, transporting, delivering or disposing of solid waste or recyclable materials generated within Emmet County, without first obtaining a Hauler License.

2.2 License Application. Every person, firm or corporation desiring to engage in the collecting, transporting, delivering or disposing of solid waste or recyclables generated within Emmet County shall make written application to the County on forms provided by or prescribed by the DPW Board. The application shall require such information as will enable the Administrator to determine whether the applicant, if licensed, will serve the public in a fair, honest, safe, and competent manner and in compliance with requirements of this Ordinance, and all other applicable laws, statutes, ordinances, rules, and regulations.

2.3 Approval or Denial of License. Upon receipt of an administratively complete application and upon payment of a licensing fee, the DPW Board shall grant or deny the Hauler License. If granted, the Administrator shall issue the license. If denied, a letter to the hauler explaining reasons for the denial will be provided within 10 working days. If a license is denied, an applicant must be provided with the opportunity for a hearing before the DPW Board within 10 working days of the receipt of the letter. The DPW Board may deny the issuance of the license for any of the following reasons:

a) Failure of the applicant to comply with this Ordinance.
b) Violations of this Ordinance or any other applicable laws, statutes, ordinances, rules, and regulations.
c) Prior criminal convictions (other than minor traffic offenses) or prior license revocation(s), when such criminal conviction or license revocation bears on the ability of the applicant to serve the public as a refuse hauler in a fair, honest, safe and lawful manner.
d) Misrepresentations of any material fact in the application for the license.

2.4 License Fee. An annual hauler licensing fee must be paid by the applicant upon submittal of a license application to the Administrator. A fee schedule shall be adopted by the County Board and shall be reasonable to cover the cost and administration of the licensing. The fee schedule shall continue in full force and effect until amended by the County Board. The County Board may, by resolution, decrease or increase any fee.

2.5 License Expiration and Renewal. A license issued under the preceding sections shall expire on the first day of January of each year. Licenses must be renewed annually in the same manner set forth in this Section upon payment of an annual licensing fee, unless revoked in accordance with the terms of this Ordinance.

2.6 License Scope and Restrictions. The County may issue licenses which restrict the scope of services of the Hauler based on the services defined in the Hauler's license application. These restrictions may be based on 1) the geographic area to be served, 2) the class of waste generator to be served (such as residential, commercial or institutional), 3) the type of material to be collected (such as Demolition and Construction Debris or Recyclable Materials), 4) the points of collection (such as curb, alley, roadside, or drop station), and/or 5) the schedule of such collections. A license may only be used for the scope of services expressly stated in the Hauler License.

2.7 Non-transferability of Licenses. All licenses shall be non-transferable.

SECTION 3

CONDITIONS OF HAULER LICENSE

3.1 General License Conditions. It shall be a condition of each Hauler License that the Hauler shall comply with all the following:

a) All provisions of this Ordinance.

b) All applicable federal, state, county, and local laws, statutes, rules and regulations, including but not limited to those pertaining to the collecting, transporting, delivering

or disposing of Solid Waste and Recyclable Materials generated within Emmet County.

c) Arrange for the delivery of all Solid Waste collected under provisions of this Ordinance, except Demolition and Construction Debris, to a County-Designated Facility.

d) If applicable, arrange for the delivery of Demolition and Construction Debris collected under the provisions of this Ordinance to a facility licensed for the receipt of such wastes by the Michigan Department of Natural Resources.

e) All applicable provisions of the Emmet County Solid Waste Plan as required under Act 641 and any agreements regarding inter-county transport of Solid Waste authorized or restricted through that plan.

f) All applicable provisions of the administrative rules adopted from time-to-time as required for the administration and operation of disposal facilities as may be recognized under provisions of Section 8 of this Ordinance.

g) Provide, or arrange to provide through subcontract, pick-up services for Recyclable Materials generated by commercial, institutional and industrial establishments receiving Solid Waste collection services from the licensee. The pick-up services shall be at a degree of convenience and a frequency that meets reasonable demands based on volume of material generated. Materials to be collected, specifications for their preparation, and other appropriate service specifications will be developed by the County or it's designated agent based on generally accepted industry standards, as described by administrative rule.

h) Not knowingly allow materials in the Solid Waste collected by the licensee that are banned by the County or it's designated agent as described by administrative rule.

The following Section, 3.1 i, shall only take effect upon adoption by the DPW Board, of administrative rules requiring such a service. These rules shall provide notice to the haulers of at least 6 months before going into effect.

i) Provide, or arrange to provide through subcontract, regularly scheduled curbside pickup services for Recyclable Materials generated by all single and multiple family households within the cities of Harbor Springs and Petoskey receiving Solid Waste collection services from the licensee and identified in the service specifications as needing the curbside pickup services. These service specification will be developed by the County or it's designated agents by administrative rule and will cover the types of households that services must be provided to, the materials to be collected, specifications for their preparation, and other appropriate requirements of the license.

Selection of materials will be based on availability of secure markets in the region.

3.2 Specific License Conditions. As a condition of a Hauler License issued pursuant to this Ordinance the licensee shall agree to:

j) File with the Administrator by the first day of January annually each of the following:

1) A description of the methods and equipment the applicant will use for collecting Refuse, Yard Waste, and/or Recyclable Material within the County.

2) A description of the type of collection to be provided and the geographic area of the County to be served.

3) A plan for meeting all collection and disposal requirements outlined in the Ordinance and in other local, state and federal regulations, as appropriate.

4) Proof of liability insurance.

5) A schedule of basic rates for collection, the services provided to customers and all fees associated with those services.

b) Notify the Administrator in writing ten (10) days prior to any substantive change in the information filed under subsection (a) above.

c) File with the Administrator by the twentieth (20th) day of January, April, July and October of each year, operations information from the last full 3 month period. This information shall include the segregated quantities, in yards and tons, of Solid Waste, including Demolition and Construction Debris, and source separated Yard Waste and Recyclable Material collected by the licensee within Emmet County.

d) Establish any fee for service as a volume-based fee system, in which a fixed service fee includes a schedule of fee increases tied to the volume of Solid Waste that the customer places out for collection by the licensee. The DPW Board shall provide administrative rules as necessary to define an acceptable volume-based fee system under this Ordinance as authorized in Section 8 of this Ordinance.

e) When the administrative rules adopted by the DPW Board require County Refuse Tags, Stickers and/or Bags, the hauler shall assure that each refuse container for which the hauler provides a pick-up is either affixed with a County Refuse Tag or Sticker or is contained in a County Refuse Bag.

SECTION 4

PROPER DISPOSAL OF REFUSE

4.1 Unlawful Dumping. No person shall deposit or cause to be deposited, sort, scatter, throw, drop or leave any Solid Waste, Hazardous Waste, Special Refuse, Demolition or Construction Debris, Yard Waste or Recyclable Material, as herein defined, upon or into any street, right-of-way, alley, container or other property, public or private property, within Emmet County without the permission of the owner, proprietor, occupant, or agent in charge of that premise.

4.2 Accumulation of Refuse. No owner or occupant of a residential dwelling unit or commercial establishment shall permit the accumulation of Refuse upon an urban residential or any commercial premise for a period in excess of fifteen days. No owner or occupant of a residential dwelling unit shall permit the accumulation of Refuse upon a rural residential premise for a period in excess of thirty (30) days.

4.3 Composting and Recycling. Yard Waste may be accumulated indefinitely for composting purposes in a manner which will not harbor rodents or become a public nuisance. An individual's Source Separated Recyclable Materials may be accumulated indefinitely in a manner which will not harbor rodents or become a public nuisance for the express purpose of transport and delivery to a public recycling facility.

4.4 Collection Restrictions. No person shall place in any container or receptacle any material that might endanger the collection personnel or which would be detrimental to the normal operation of collection, for example: gaseous, solid, or liquid poisons, dead animals, ammunition, explosives, or any material that possesses heat sufficient to ignite any other collected materials.

4.5 Anti-Scavenging Provision. No person, firm or corporation shall take, collect or transport any Refuse, Yard Waste, or Recyclable Material from any street right-of-way, alley or dumpster within this County which has been designated for collection by a public agency or licensed hauler. This includes materials that have been placed at a drop-off location, at the edge of a curb, road or alley, or other designated collection site. Materials so restricted must be placed in a well-marked container, stating the name of the authorized collection agent.

SECTION 5

REFUSE CONTAINER SPECIFICATIONS

5.1 General Specification. All container units used for residential or commercial refuse

collection shall be kept clean and in good repair. The property owner of each residential and commercial premise is responsible for maintaining sanitary conditions in and around the refuse container.

5.2 Approved Residential Refuse Containers. For the purposes of residential refuse collection, an approved residential refuse container shall consist of a plastic bag or can liner closed by drawstring or twist tie, or a container constructed of a permanent material such as steel, aluminum or plastic with tight fitting cover, which, if lifted manually shall have a capacity of no less than five or more than thirty (30) gallons and the gross weight not exceeding fifty (50) pounds. When required by the administrative rules adopted by the DPW Board, an approved refuse container must also be affixed with a valid County Refuse Tag or Sticker or must itself be a County Refuse Bag.

5.3 Approved Commercial Refuse Containers. For the purposes of commercial refuse collection, an approved refuse container shall consist of a durable, water-tight metal container or dumpster with tight-fitting cover meeting National Solid Waste Management Association, American National Standards Institute, and Consumer Products Safety Commission requirement as applicable to design, application and safety. The lid and side doors of all commercial refuse collection containers shall be kept closed. The net volume of commercial refuse container places for refuse shall not exceed the specified capacity of the container. When required by the administrative rules adopted by the DPW Board, an approved refuse container must also be affixed with the appropriate number of valid County Refuse Stickers as set forth in the rate schedule.

5.4 Approved Containers for Special, Construction and Demolition Wastes. For the purposes of Special Waste collection and Construction and Demolition Debris collection, there are no special container requirements. Containers do not need to be affixed with County Refuse Stickers. Hauler licensing provisions may require a hauler to document these volumes.

SECTION 6

BAG, TAG AND STICKER SPECIFICATIONS AND USES

This Section shall take effect only upon adoption by the DPW Board of administrative rules requiring County Refuse Bags, County Refuse Tags, and/or County Refuse Stickers. The rules shall provide at least three months notice to haulers before taking effect, and shall set fee schedules. Sections 6.1-6.4 may be amended by administrative rule.

6.1 County Refuse Bags. County Refuse Bags shall be of a distinctive color, printed with the County seal, an expiration date and other appropriate words which indicated to refuse collectors that when the bag is placed for collection that it is intended for a refuse

collection service. A County Refuse Bag shall be used as a residential refuse container and shall be valid for a single container pick-up prior to the expiration date printed on the bag. A County Refuse Bag may be used instead of a County Refuse Tag.

6.2 County Refuse Tags. County Refuse Tags shall be of a distinctive color, printed with the County seal, an expiration date and other appropriate words which indicate to refuse collectors that when a tag is affixed to a refuse container it is intended for a refuse collection service. A tag shall be used on residential refuse containers only and shall be valid for a single container pick-up prior to the expiration date printed on the tag.

6.3 County Refuse Stickers. County Refuse Stickers shall be of a distinctive color or material and printed with the County seal, an expiration date and other appropriate words which indicate to refuse collectors that when the sticker is affixed to a refuse container it is intended for refuse collection service. A sticker shall be used on residential refuse containers. Each sticker shall be valid for a duration as established from time to time by the DPW Board. The number of stickers required per container shall be set forth in a rate schedule by the DPW Board based on the size of the container and the number of pick-ups per week.

6.4 Bag, Tag and Sticker Sale. A fee schedule shall be adopted by the DPW Board which identifies the price at which County Refuse Bags, Tags and Stickers shall be sold. The Administrator shall sell, upon request, County Refuse Bags, Tags and Stickers to individuals, retail stores, and/or licensed Waste Haulers. The designated sale outlets shall also be determined by resolution of the DPW Board. Participating sales establishments shall sell County Refuse Bags, Tags or Stickers for not more than the maximum price set forth in the fee schedule. However, the appropriate sales tax may be charged by the retail establishment is so required by State or Federal law.

SECTION 7

DISPOSAL OF SOLID WASTE

7.1 Approved Collection Methods. The owner or occupant of each residential and commercial property within Emmet County shall be responsible for securing an approved method of Solid Waste collection. Approved methods shall be limited to 1) arrangements with a licensed Waste Hauler, or 2) transport of a Person's own Solid Waste to a County-Designated Facility. All Special Refuse, Construction and Demolition Debris must be removed using an approved method. Approved methods shall be limited to: 1) arrangements with a duly licensed hauler, and 2) transport of an Individual's own material to a County-Designated Facility.

7.2 Approved Refuse Container. Any Person setting out Refuse other than Special Refuse for collection by a Waste Hauler must place all accumulated Refuse in an approved refuse container as set forth in Section 5 of this Ordinance. It shall be a violation of hauler licensing provisions to pick up Refuse from any residential or commercial location within Emmet County unless it has been placed in a County-approved refuse container.

7.3 Delivery of Solid Waste by Waste Haulers; Effective Operation Date. As of the Effective Operation Date and all times thereafter, Waste Haulers shall a) deliver all Solid Waste collected or transported from a site of generation within the County, except Demolition and Construction Debris, to the County-Designated Facility set forth in the hauler's valid Hauler License; and b) pay the tipping fee for delivery thereof.

7.4 Delivery of Solid Waste by Individuals; Effective Operation Date. As of the Effective Operation Date and all times thereafter, an Individual transporting Solid Waste, except Demolition and Construction Debris, from his or her premise shall a)deliver such waste to a County-Designated Facility and b) pay the tipping fee for delivery thereof.

SECTION 8

MISCELLANEOUS

8.1 Penalties and Remedies. Upon a violation of any provision of this Ordinance, the County may seek criminal prosecution and may seek legal and/or equitable relief in a court of competent jurisdiction. Any person who violates any provision of this Ordinance shall be guilty of a misdemeanor punishable by a fine of up to $500.00, or imprisonment of not to exceed 90 days, or both such fine and imprisonment. Each day that a violation occurs or continues shall be deemed a separate offense. In addition, a conviction for a violation of any provision of this Ordinance shall be cause for the Court to suspend a Hauler License for up to 2 years.

8.2 Severability. Sections of this Ordinance shall be deemed severable and should any section, clause or provision of this Ordinance be declared to be invalid, the same shall not affect the validity of the Ordinance as a whole or any part thereof, other than the part so declared to be invalid.

8.3 Effective Date. This Ordinance shall become effective immediately upon publication in a newspaper of general circulation in Emmet County.

8.4 Administrative Rules. The DPW Board shall promulgate administrative rules to carry out the provisions of this Ordinance. These administrative rules are subject to approval by the County Board.

SOLID WASTE ORDINANCE NO. 20

ATTACHMENT A

SOLID WASTE ORDINANCE NO. 20

ATTACHMENT B

The act 641 definition reads as follows:

Solid waste means garbage, rubbish, ashes, incinerator ash, incinerator residue, street cleanings, municipal and industrial sludges, solid commercial and solid industrial waste and animal waste. Solid waste does not include (a) human body waste; (b) liquid waste; (c) ferrous or non ferrous scrap directed to a scrap metal processor or to a re-user of ferrous or nonferrous products; (d) slag or slag products directed to a slag processor or to a re-user of slag or slag products; (e) sludges and ashes managed as recycled or nondetrimental materials appropriate for agricultural or silvicultural use pursuant to a plan approved by the director; (g) source separated materials; (h) site separated material; (i) flyash or any other ash produced from the combustion of coal, when used in the following instances: (i) with a maximum of 6 percent of unburned carbon as a component of concrete, grout, mortar, or casting molds; (ii) with a maximum of 12 percent unburned carbon passing Michigan Department of Transportation test method MTM 101 when used as a raw material in asphalt for road construction; (iii) as aggregate, road or building material which in ultimate use will be stabilized or bonded by cement, limes, or asphalt; (iv) as a road base or construction fill which is covered with asphalt, concrete, or other material approved by the director and which is placed at least 4 feet above the seasonal groundwater table; (v) as the sole material in a depository designed to reclaim, develop, or otherwise enhance land, subject to the approval of the Michigan Department of Natural Resources Director. In evaluating the site, the director shall consider the physical and chemical properties of ash including leachability, and the engineering of the depository, including, but not limited to the compaction, control of surface water and groundwater that may threaten to infiltrate the site, and evidence that the depository is designed to prevent water percolation through the material; and (j) other wastes regulated by statute.

ADMINISTRATIVE RULES FOR ORDINANCE NO. 20
Revised June 11, 1992

ADMINISTRATIVE RULES FOR AN ORDINANCE TO REGULATE THE COLLECTION, TRANSPORTATION, DELIVERY AND DISPOSAL OF SOLID WASTE, AND RECYCLABLE MATERIALS; TO REQUIRE THE LICENSING OF WASTE HAULERS; TO ESTABLISH PRE-COLLECTION REQUIREMENTS; TO PROHIBIT ROADSIDE DUMPING OF REFUSE; AND TO PROVIDE PENALTIES FOR VIOLATIONS THEREOF.

Section 1: Definitions
Section 2: Recyclable Materials
Section 3: Collection Service Requirements
Section 4: Fees, Rates and Charges for Collection Services
Section 5: County Designated Facility
Section 6: Registration and Reporting Requirements
Section 7: Amendments
Section 8: Enforcement

THE BOARD OF THE DEPARTMENT OF PUBLIC WORKS OF EMMET COUNTY HEREBY PROMULGATES THE FOLLOWING RULES AND REGULATIONS FOR ORDINANCE NO. 20:

SECTION 1

DEFINITIONS

1.1 Definitions. For purposes of these Rules and Regulations, the definitions provide for key words and phrases will be those contained in Section One of Ordinance No. 20. The following definitions, presented in alphabetical order, are hereby added to that list:

1) "Act 641 Solid Waste Management Planning Process" means an authorized solid waste planning process managed by an MDNR approved Emmet County designated planning agent as described in Act No. 641 of the Public Acts of Michigan, 1978, the Solid Waste Management Act, as amended.

2) "MDNR" means the Michigan Department of Natural Resources.

3) "Recyclable Material" means the recyclable materials accepted for collection and processing in the County.

SECTION 2

RECYCLABLE MATERIALS

2.1 Recyclable Materials Listing - Residential Services. As of April 1, 1993, the following source-separated materials, in the form specified, shall be included in any curbside collection services provided as part of the hauler licensing conditions in Ordinance No. 20:

c) Old newspapers and printed materials made from newsprint - material must be non-yellowed from age, free of moisture, and may be loose or bagged or tied in bundles separate from the rest of the recyclable materials. The material must contain less than 5 percent of other paper grades such as white ledger papers, glossy fillers , or mailers.

d) Old corrugated cardboard containers having liners of kraft, jute, or test liner - must be tied after being broken down and stacked flat in sizes no longer than two feet. Office paper, wood, plastic, large metal pieces, styrofoam, and food are contaminants as are wax coated cardboard and cardboard not made from kraft, jute or test liner. The material is acceptable if moist but not totally wet and staples and tape with water soluble glues are acceptable. Bundled corrugated cardboard may be co-mingled with loose or bundled newspaper.

e) Glass bottles and jars - all tops must be removed from containers and rinsed clean. Contaminants include light bulbs, window pane glass, pressure-treated "Pyrex" type glass, ceramics and crystal. All containers must be free of feed contaminants.

f) Tin-plate steel food cans - must be rinsed clean, with paper labels removed. Preferably flattened with both ends removed.

g) High density polyethylene bottles (coded as #2 HDPE) such as milk jugs and laundry detergent bottles, excluding motor oil containers and all wide-mouth containers (such as cottage cheese containers, even if coded #2 HDPE). Must be rinsed clean with lids removed.

2.2 Recyclable Materials Listing - Commercial, Institutional and Industrial Services. As of November 1, 1992, the following materials, in the form specified, shall be included in any commercial, institutional or industrial recycling collection services provided as part of the hauler licensing conditions in Ordinance No. 20.

a) Old corrugated containers having liners of kraft, jute or test liner. The material is acceptable if wet and staples and tape with water soluble glues are acceptable. Any attached wood, plastic, large metal pieces, and food are contaminants and must be removed by the user. Was coated cardboard and cardboard not made from kraft, jute or text liner should not be included.

2.3 Additions, Deletions, and Exemptions to the Recyclable Materials Listings.

a) The DPW shall make available to all licensed haulers the list of recyclable material and propose any additions or deletions to those list or clarification of collection or delivery specifications. Proposals for additions and deletions shall be handled as amendments to these rules and regulations.

b) Licensed haulers may petition the DPW in writing at any time to have additions, deletions or changes in collection or delivery specifications made to the recyclable materials lists. The DPW shall respond in writing within 60 calendar days and that response and the original petition shall be included in the published minutes of the DPW.

c) The DPW shall make a good faith effort to provide adequate capacity to process and market the materials on the recyclable materials listings.

2.4 Recyclable Materials Listing - Delivery Requirements for Recyclables for acceptance at Emmet County Recycling Center. As of April 1, 1993, residential recycling collection services provided as part of the hauler licensing conditions in Ordinance No. 20 may deliver the recyclable materials to the County's Recycling Center in the following form:

a) At the County-designated recycling facility the licensed hauler shall hydraulically tip (other methods only upon approval of the DPW) loads of fiber materials consisting of bagged or bundled old newspapers, and bagged or bundled old corrugated cardboard.

b) At the County-designated recycling facility or facilities the licensed hauler shall hydraulically tip (other methods only upon approval of the DPW) loads of source-separated container materials collected from curbside recycling services. The licensed hauler shall hydraulically tip loads of source separated green glass, clear glass, brown glass and HDPE plastics.

SECTION 3

COLLECTION SERVICE REQUIREMENTS

3.1 Requirements for Hauler License. A hauler license will be required for all those engaged in the business of collecting, transporting, delivering or disposing of solid waste or recyclable materials generated within Emmet County. This may include:

a) Refuse haulers
b) Recycling collection companies

Individuals hauling solid waste or recyclable materials from their own residence or site of principal business activity to County-designated facilities are exempt from the requirement to have a hauler license.

3.2 Curbside Recycling Collection Services. As of April 1, 1993 (or when adopted to go into effect), the following service specifications apply for curbside recycling collection services:

a) Curbside recycling services must be offered by any licensed hauler who provides trash collection services in designated curbside recycling areas. This service must include collection of recyclable materials identified in Section 2.1.

b) Designated curbside recycling areas include but are not limited to all single-family residential structures and multi-family residential structures with less than five units per building in residential areas within the city limits of Petoskey and Harbor Springs.

c) The licensed hauler must offer to provide to each of its participating customer households at least one household recycling collection bin of 12 to 18 gallon capacity made of HDPE plastic with at least a 25% post consumer recycled plastic content. The bin must have the name of the licensed hauler identified in writing on its side.

d) The licensed hauler must offer to provide to all City of Petoskey and Harbor Springs customers the opportunity for the pick-up of recyclable material from their recycling collection bin.

e) At the time of original distribution of the bins and at least annually thereafter, the licensed hauler must distribute to all customers a printed publication that shall clearly define the recycling service being offered by the hauler, rates and charges as appropriate, preparation and set-out requirements for the materials on the recyclable materials list, and the procedure the hauler will use for continued maintenance and enforcement of these user requirements. The phone number of the hauler shall be included in the publication along with the following: "For further information on Emmet County recycling efforts call _____" with the phone number included to be specified by the DPW at the time of hauler license approval.

3.3 Commercial, Institutional, and Industrial Recycling Collection Services. As of November 1, 1992, the following service specifications apply for commercial, institutional and industrial recycling collection services:

a) Recycling collection services must be offered for the materials as identified and described in the recyclable materials list by any licensed hauler who provides trash collection services to commercial, institutional, and industrial customers.

b) The licensed hauler must offer to provide to each of its customers suitable outdoor

containers for the recyclable materials in a location whose level of customer convenience meets that of the solid waste containers provided to the same customer. The containers must have the name of the licensed hauler identified in writing on its side, along with the preparation requirements for all materials allowed in each container and typical contaminants not allowed in each container.

c) The licensed hauler must offer to provide, or arrange to provide through subcontract, the pick-up of the recyclable materials from each of it's customers at the degree of frequency required to remove the accumulated materials without spillage or overflow of material from the provided containers.

d) At the time of original distribution of the bins and at least annually thereafter, the licensed hauler must distribute to all customers a printed publication that shall clearly define the recycling service being offered by the hauler, rates and charges as appropriate, preparation and set-out requirements for the materials on the recyclable materials list, and the procedure the hauler will use for continued maintenance and enforcement of these user requirements. The phone number of the hauler shall be included in the publication along with the following: "For further information on Emmet County recycling efforts call _____" with the phone number included to be specified by the DPW at the time of hauler license approval.

SECTION 4

FEES, RATES AND CHARGES FOR COLLECTION SERVICES

4.1 Initial Hauler License Application Fee. At the time of initial application for a hauler license, an application fee of $25.00 (twenty-five dollars) shall be paid to the DPW.

4.2 License Renewal Fee. At the time of renewal application for a hauler license, an application fee of $15.00 (fifteen dollars) shall be paid to the DPW.

4.3 Fees for Service Charged by Licensed Haulers. All fees for service charged by licensed haulers for solid waste collection services must be volume based. The DPW shall review the proposed structure of a licensed haulers fee system at the time of license application to insure that it meets these requirements. Haulers can use the following collection rate structures for charging fees to their customers:

a) Requirements for residential solid waste collection - Haulers may charge a unit fee based on volume, or a base fee plus a unit fee based on volume.
If a base fee is used, it may include one unit collected, but it may not include more than one unit collected. The base fee may not be set at more than two times greater than the additional unit fees, (or first additional unit fee) for a comparable unit. Additional unit fees may not decrease with additional units, but may be set at a

standard rate or increase for increasing units. Units may not be charged at less than $1.00 per unit, to insure rate structure offers a clear incentive to reduce volume.

Examples of acceptable volume based fees for residential solid waste collection follow:

- Unit fee only:
  1. $2.00 per bag, no base fee, no minimum or maximum.
  2. $4.00 for a 1-can subscription service, $9.00 for a 2-can service ($5.00 for 2nd can, $15.00 for a 3-can service ($6.00 for the 3rd can).

- Base fee with unit fee:
  1. Base fee of $2.00/week ($8.00/month) includes pickup of one can each week. Each additional bag set out is $1.00 per bag.

b) Requirements for commercial, institutional, industrial.

Fees for servicing of dumpsters shall be based on volume. Any commercial operations that do not have dumpsters shall be serviced according to the same requirements as for residential solid waste collection (Section 4.3a).

c) Requirements for residential and commercial recycling collection.

Fees set for collection of recyclables shall be less than solid waste collection fees, and are not required to be volume-based.

SECTION 5

COUNTY DESIGNATED FACILITY

5.1 County designated facility. The County designated facility for solid waste to be utilized by all licensed solid waste haulers, is the Emmet County Transfer Station located at 7363 Pleasantview Road, Harbor Springs, Michigan.

5.2 Provisions for Rejection of Solid Waste. The Transfer station will accept all solid waste received from licensed haulers which complies with Station rules and does not contain hazardous or other banned substances. If the Transfer Station cannot accept solid waste for any reason during normal operating hours, including, but not limited to emergency closure, or mechanical failure, licensed haulers may use any other licensed disposal facility until the Transfer Station can accept waste again. Transfer Station staff will notify licensed haulers to the best of their ability if this ere to occur. This does not include temporary delays in the acceptance of solid waste on a daily basis.

SECTION 6

REGISTRATION AND REPORTING REQUIREMENTS

6.1 Licensed haulers are required to submit quarterly reports on a form prepared by the DPW of their estimated activity in the previous three month period in collecting all materials on the recyclable material list and all solid waste, refuse and demolition and construction debris. Such estimates shall be in the form of both cubic yards and tonnages, and shall be broken down by type of collection activity and by point of final delivery. Due dates for filing this information are the twentieth day of January, April, July and October of each year, with January, 1993 being the first year this requirement shall be effective.

SECTION 7

AMENDMENTS

7.1 Amendments. The DPW may from time to time adopt amendments to these administrative rules as required to meet it's obligations in administration, enforcement and coordination of the system and costs for direct provision of services associated with the system. All proposed amendments shall be available to licensed haulers and the general public and be available for review through scheduled appointment. Such amendments shall be subject to approval by the County Board.

SECTION 8

ENFORCEMENT

8.1 Duties of Licensed Haulers. Licensed haulers shall assist in enforcement of compliance by generators with the ordinance and these administrative rules regarding the manner in which recyclable materials shall be prepared. Enforcement actions shall first start with a quality control enforcement sheet being left with the bin, cart or container used by the violator. In such an instance the hauler is not obligated to pick up the material that has not been properly prepared. After two to five such actions (at the discretion of the licensed hauler), the hauler shall then contact the violator in writing and may choose to discontinue service upon due warning.

8.2 Duties of Designated Facility. The designated facility shall enforce compliance with the ordinance and these administrative rules. Enforcement actions shall first start with a verbal notification or quality control enforcement sheet being left with the licensed hauler or individual responsible for the violation. In such an instance the designated facility is not obligated to receive the material that has not been properly prepared.

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ATTACHMENT H

EMMET COUNTY ZONING ORDINANCE

Montmorency-Oscoda-Alpena
Solid Waste Management Authority

P.O. Box 789 • Atlanta, MI 49709 (517) 785-2066 • Fax: (517) 785-4183

Authority Board

Roger D. Frye
Chairman

ennis Kauffman
Vice-Chairman

ymond Wegmeyer
cretary/Treasurer

Richard E. Hermanson

Michael Hunt

Jere Gagnon

ndy Cunningham
ecutive Secretary

June 15, 1999

Ms. Elisa Seltzer
County of Emmet
Department of Public Works
200 Division Street
Petoskey, MI 49770

Dear Ms. Seltzer:

The Montmorency-Oscoda-Alpena Solid Waste Management Authority Board is in receipt of your correspondence dated 6/14/99 requesting our willingness and ability to accept waste generated in Emmet County.

The Solid Waste Management Plan, prepared jointly for the County's of Montmorency and Oscoda, is currently at the township level pending approval. Flow Control for 100% of the waste generated in Montmorency, Oscoda and Alpena County's is included in this Plan. Projected volumes available for disposal with flow control from Montmorency, Oscoda and Alpena County's is 145,000 cubic yards annually. Our Landfill has an estimated thirty-year life expectancy, securing air space for up to 3,500,000 cubic yards of waste.

Attached, please find a copy of page 34 of our Plan, listing export authorizations, which includes Emmet County.

As such, the Landfill Authority would be most willing and able to pursue an agreement for all or a portion of the waste generated in Emmet County, should the opportunity arise.

If you require additional information, please contact this office.

Sincerely,

Roger D. Frye

Roger D. Frye
Chairman

RDF/sc

IMPORT AUTHORIZATION

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

Table 1-A

CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

Importing County	Exporting County	Facility Name[1]	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions[2]
Montmorency	Alpena	MOSL	100 %	100 %	P
Montmorency	Montmorency	MOSL	100 %	100 %	P
Montmorency	Oscoda	MOSL	100 %	100 %	P
Montmorency	Emmet	MOSL	*	*	P, C, O
Montmorency	Cheboygan	MOSL	*	*	P, C, O
Montmorency	Presque Isle	MOSL	*	*	P, C, O
Montmorency	Alcona	MOSL	*	*	P, C, O
Montmorency	Iosco	MOSL	*	*	P, C, O
Montmorency	Ogemaw	MOSL	*	*	P, C, O
Montmorency	Roscommon	MOSL	*	*	P, C, O
Montmorency	Crawford	MOSL	*	*	P, C, O
Montmorency	Otsego	MOSL	*	*	P, C, O
Montmorency	Kalkaska	MOSL	*	*	P, C, O
Montmorency	Grand Traverse	MOSL	*	*	P, C, O
Montmorency	Benzie	MOSL	*	*	P, C, O
Montmorency	Leelenau	MOSL	*	*	P, C, O
Montmorency	Antrim	MOSL	*	*	P, C, O
Montmorency	Charlevoix	MOSL	*	*	P, C, O
Montmorency	Schoolcraft	MOSL	*	*	P, C, O

*** The MOSL Authority reserves the right to establish waste hauler allocations into the landfill.**

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1 Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
2 Authorization indicated by P = Primary Disposal; C = Contingency Disposal; O = Other conditions exist and detailed explanation is included in the Attachment Section.

VILLAGE OF MACKINAW CITY

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Village of Mackinaw City hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

Motion by: Trustee Planisek.

Supported by: Trustee Arnold.

Ayes: Pauling, Heilman, Williams, Bertchinger, Planisek, Morse and Arnold.

Nays: None.

RESOLUTION DECLARED ADOPTED.

Sandra M. Krueger

Sandra M. Krueger, Village Clerk
Village of Mackinaw City

I do attest that this is an accurate reflection of the actions taken at a Regular Meeting of the Mackinaw City Village Council held on Thursday, February 4, 1999, and that public notice of said meeting was given pursuant to Act No. 267, Public Acts of Michigan.

In witness whereof, I have affixed my official signature this 4th day of February 1999.

Sandra M. Krueger

Sandra M. Krueger, Village Clerk
Village of Mackinaw City

WEST TRAVERSE TOWNSHIP

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the draft plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval of 67% of governing bodies within the County is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act.

NOW THEREFORE BE IT RESOLVED that the West Traverse Township hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

Upon voice vote there were 4 ayes and 0 nays. The Supervisor declared the resolution passed.

Peter A. Wallin

Peter A. Wallin, Clerk

Certification

I, Peter A. Wallin, the duly appointed and acting Clerk of West Traverse Township, hereby clarify that the foregoing resolution was adopted by the Township Board of said Township at the regular meeting of said board held on February 9, 1999, at which meeting a quorum was present by a voice vote of said members as hereinbefore set forth; that said resolution was ordered to take immediate effect.

Peter A. Wallin

Peter A. Wallin, Clerk

CITY OF HARBOR SPRINGS

Resolution of the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and Provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan Approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that the City of Harbor Springs hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

This 15th day of February, 1999

Motion by Jardine, second by Baldwin, to approve the "Resolution on the Emmet County Solid Waste Management Plan Update."

Ayes: Jardine, Smelt, Wilcox, Dika and Baldwin.
Nays: None

Ronald B. McRae

Ronald B. McRae,
City Clerk

resolution/SWM.wpd

City Of Harbor Springs
Certified Copy
By Ronald B. McRae
City Clerk

City of Petoskey

Resolution

WHEREAS, the County of Emmet has been directed to prepare an update of the County's Solid Waste Management Plan pursuant to Part 115, Solid Waste Management, of the Natural Resources Environmental Act of 1994, as amended; and

WHEREAS, such a plan update would protect Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery activities within the County; and

WHEREAS, the Emmet County Board of Commissioners appointed a Solid Waste Management Planning Committee that drafted the plan update, distributed the proposed plan update to all local units of government during a 90-day public comment period, and conducted a public hearing as required by law; and

WHEREAS, the proposed Solid Waste Management Plan Update was approved by the Solid Waste Planning Committee by unanimous vote January 13, 1999, and by a unanimous vote of the Emmet County Board of Commissioners January 14; and

WHEREAS, approval by 67% of legislative bodies of local governmental units are required by the Michigan Department of Environmental Quality to approve the plan pursuant to the Solid Waste Management Act; and

WHEREAS, as part of this review process, the City Council received copies of the draft plan at its regular meeting of November 16, 1998 and again considered the proposed plan at its regular meeting of February 1, 1999:

NOW, THEREFORE, BE IT RESOLVED that the City of Petoskey City Council does and hereby approves the Emmet County Solid Waste Management Plan Update as published for submission to the Michigan Department of Environmental Quality.

State of Michigan)
County of Emmet) ss.
City of Petoskey)

I, Alan Terry, Clerk of the City of Petoskey, do hereby certify that the foregoing is a true copy of a resolution adopted by the City Council of the City of Petoskey in regular session assembled on the 1st day of February, 1999, and of the whole thereof.

In witness whereof, I have hereunto set my hand and affixed the corporate seal of said City of Petoskey this 2nd day of February, 1999.

Alan Terry, City Clerk

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APPENDIX D: PLAN IMPLEMENTATION STRATEGY

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

The County Board's adoption of the Plan is intended as a demonstration of the County's acceptance of responsibilities for implementing the Plan as follows:

This timetable is a guideline to implement components of the Plan's Enforceable Program. The Timeline gives a range of time in which the component will be implemented such as "1999-2000" or "On-going." Timelines may be adjusted later, if necessary.

Management Components	Timeline
1) Develop/Adopt Implementation Action Plan	1999
2) Amend Intergovernmental Agreements/Ordinance/Rules/Regs	1999
3) Preliminary Program Specifications for Planned Ph I Programs	1999
4) Establish Budgets for Planned Phase I Programs	1999
5) Finalize Any Upgrades to Funding Structure and Mechanisms	1999-2000
6) Initiate all Phase I outreach/education programs	1999-2000
7) Procure all other Phase I system improvements	1999-2000
8) Renegotiate Arrangements for Long Term Disposal Capacity	2002-2008
9) Engineer & construct transfer station/MRF modification	2002-2003
10) Preliminary Program Specifications for Planned Ph II Programs	2002-2003
11) Establish Budgets for Planned Phase II Programs	2002-2003
12) Finalize Any Upgrades to Funding Structure and Mechanisms	2002-2003
13) Trigger Ban on Selected Items from Landfill Disposal	2003-2008
14) Initiate all Phase II outreach/education programs	2003-2008
15) Procure all other Phase II system improvements	2003-2008
16) Data Tracking to Assess Program Performance	Annual/Ongoing
17) Update Implementation Action Plan	Annual/Ongoing

ATTACHMENTS

The following attachments are included as part of the Plan.

ATTACHMENT A: Resolutions - *NOT APPLICABLE*

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

ATTACHMENT B: Listed Capacity

Documentation from landfills that the County has access to their listed capacity.

ATTACHMENT C: Maps

Maps showing locations of solid waste disposal facilities used by the County.

ATTACHMENT D: Inter-County Agreements

Copies of Inter-County agreements with other Counties (if any).

ATTACHMENT E: Detailed population data

Detailed population data in chart form

ATTACHMENT F: Special Conditions

Special conditions to import and export of solid waste in addition to those related to Inter-County Agreements as provided for in Attachment D.

ATTACHMENT G: Emmet County Solid Waste Ordinance & Intergovernmental Agreement

Copy of the version of the Emmet County Solid Waste Ordinance and Intergovernmental Agreement in effect at the time of Plan adoption.

ATTACHMENT H: Emmet County Zoning Ordinance

Copy of the relevant sections and articles of Emmet County Zoning Ordinance as referred to in Section III-12 of the Plan.

ATTACHMENT A

RESOLUTIONS

(NOT APPLICABLE)

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ATTACHMENT B

LISTED CAPACITY

ORIGINAL

Springvale Township
Resolution on the Emmet County Solid Waste Management Plan Update
May 11, 1999

Whereas, Emmet County has been directed to prepare an update of the County Solid Waste Management Plan pursuant to Part 115, Solid Waste e Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and

Whereas, An adopted County Solid Waste Plan protects Emmet County's ability to plans and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

Whereas, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Planned to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

Whereas, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plans was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

Whereas, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

Now Therefore Be It Resolved, that Springvale Township hereby approves the Emmet County Solid Waste Management Plan Updated as written for submittal to the Michigan Department of Environmental Quality.

Township Clerk Signature Leone L. Freeman

Date 5-17-99

Turn Out Gear Bids- Les Wormell presented the Fire Department's recommendation of West Shore, as they followed the bid criteria, equipment is Globe (which is high quality) and West Shore will repair gear. Stark stated that there may be a small additional cost for velcro for numbers on gear. Bruin-Slot made motion to accept West Shore's Bid of $13961.25, seconded by Eedy. Voice vote taken. All in favor. Motion carried.

Freeman presented the **Emmet County Solid Waste Plan Resolution.**
Roll call vote taken:

Eedy- Yes	**Whipp-Yes**
Migda-Yes	**Freeman- Yes**
Bruin-Slot -Yes	

Resolution adopted.

Bids for painting of the interior of the township hall to be

Springvale Township Board
Regular Board
May 11, 1999

Roll Call The Springvale Township Board met in Regular Session on May 11, 1999 at 7:30 P.M. at the Springvale Township Hall at 8198 East Mitchell Road.
Present were Tom Whipp, Leslie Freeman, Patricia Eedy, Jan Bruin-Slot and Teresa Migda.
There were 4 visitors present. See attached Clerk's copy.

Minutes It was moved by Bruin-Slot and supported by Eedy to waive the reading of the Minutes. Voice vote. All in favor. Motion carried.
Motion by Eedy to accept the corrected April minutes, supported by Jan Bruin-Slot. Voice vote taken. All in favor. Motion carried.

Treasurer's Report Presented by Migda. Bruin-Slot questioned the negative balance in the Fire Truck Fund. Whipp stated that the Board would need to amend the budget to transfer the money from the general fund to cover the deficit.

Payment of Bills: No questions.

Committee Reports:

Planning Patricia Eedy had no report as she missed the meeting due to illness.

Fire Robert Stark -The Fire Department has taken delivery of the

LITTLE TRAVERSE TOWNSHIP

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Little Traverse Township hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

I, Lynda L. Arman, Clerk of Little Traverse Township, do hereby certify that the above is a true copy of a resolution passed by the Township Board at a regular meeting held February 13, 1999 at 1:00 P.M. at the Township Hall.

Lynda L. Arman

Lynda L. Arman, Clerk

2/13/99

Date

MAPLE RIVER TOWNSHIP

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval of 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Maple River Township hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

Resolution offered by Member David Schmalzried, Supported by Member Maynard Wiertalla

Vote on Resolution: Yeas 5, Nays 0, Absent 0

I hereby certify that the foregoing is a true and complete copy of a resolution offered and adopted by the Maple River Township Board at a regular meeting held on March 29, 1999.

Doris Budnik

Clerk

RESORT TOWNSHIP
RESOLUTION ON THE EMMET COUNTY
SOLID WASTE MANAGEMENT PLAN UPDATE

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Resort Township hereby approves the Emmet County Solid Waste Management Plan Update as written for submittal to the Michigan Department of Environmental Quality.

The foregoing resolution offered by Board Member Veurink and supported by Board Member Foltz.

Upon a roll call vote, the following voted:
"aye"
Walenta, Bedard, Eppler, Veurink, Foltz.

"nay"
None

"absent"
none

The supervisor declared the resolution adopted.

Lucy Eppler, Clerk

CERTIFICATE

I, Lucy Eppler, the duly elected and acting Clerk of Resort Township, hereby clarify that the foregoing resolution was adopted by the Township Board of said Township at the regular meeting of said Board held on April 6, 1999, at which meeting a quorum was present by a roll call vote of said members as hereinbefore set forth; that said resolution was ordered to take effect immediately.

Lucy Eppler, Clerk

FRIENDSHIP TOWNSHIP 1999-02

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Friendship Township hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

The foregoing resolution offered by Board Member Newbury and supported by Board Member Van Divner.

Upon roll call vote, the following voted AYE: 5
NAY: 0

The Supervisor declared the resolution adopted.

Janell Van Divner

Janell Van Divner, Clerk

CERTIFICATE

I, Janell S. Van Divner, the duly elected and acting Clerk of Friendship Township, hereby certify that the foregoing resolution was adopted by the Township Board of said Township at the regular meeting of said Board held on March 1, 1999, at which meeting a quorum was present, by a roll call vote of said members as hereinbefore set forth, that said resolution was ordered to take immediate effect.

Janell S. Van Divner

Janell S. Van Divner, Clerk

LITTLEFIELD TOWNSHIP

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Littlefield Township hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

Date: February 2, 1999

Damien B. Henning

Damien B. Henning

County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY MICHIGAN 49770
616 348-0640
FAX 616 348-0633

Emmet County Solid Waste Management Planning Committee
Meeting Notice & Agenda
Public Hearing Notice

Meeting

Date: Wednesday, December 2, 1998
Time: Solid Waste Planning Committee meets at 7:00 p.m.
Public Hearing begins at 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Communications
5. Other Business (if any)
6. Public Comment
7. Adjourn

Public Hearing to commence at 7:30 p.m.

Committee Members: Please call the DPW Office at 348-0640 if your are unable to attend this meeting.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Management Plan Public Hearing
December 2, 1998

SWMP Committee Members Present:	J. Erber, Chairperson; A. Smith, Vice-Chairperson; A.Baughman; L. Blanchard; D. Mapes; G. Williams; W. Goodwin; K. Pacquet
SWMP Committee Members Absent:	J. Hass; R. Hitz; D. Keiser, Secretary; J. Lively; D. Pizzurro; R. Moreau
Staff Present:	E. Seltzer; L. Francis; M. Putters
Public Attendees:	Robert Heilman; Alyce Conrad; Lawton Smith; Jane Dunshee, Petoskey News Review; Roseanna Smith

Call to Order
The public hearing was called to order by E. Seltzer at 7:33 p.m.

Plan Overview
E. Seltzer gave a brief overview of the Solid Waste Management Plan: the reasons for it; requirements of the Department of Environmental Quality (DEQ), Michigan's Waste Management Division; goals of the plan during Phases I and II; the approval process, including the public comment period, revisions, needed municipality approval, DEQ approval; and increased recycling goals.

Public Comments
E. Seltzer asked the public if they had any questions or comments. G. Heilman stated that Mackinaw City was not included in a couple of tables, specifically in Section II, Page 3, Table II-4 and Section II, Page 14, the table titled Yard Waste Collection Services. He also noted that the first sentence in paragraph 4 of Section II, Page 17, did not make any sense. E. Seltzer asked Mr. Heilman, the President of the Village of Mackinaw City, if he would be able to provide the information needed for the aforementioned tables, to which he replied yes. It was agreed by those present that the sentence referred to didn't make sense and would be checked into.

E. Seltzer again asked if there were any questions or comments. M. Putters asked if there was any way in which to measure the reduction of solid waste going to land fills, due to increases in recycling. E. Seltzer commented that was difficult to measure, but that Resource Recycling Systems, Inc. would be the most capable of coming up with a way to track that information. K. Pacquet asked if the corrugated cardboard that was being picked up in Emmet County by a waste hauler, but not run through the Transfer Station, was being taken into account. E. Seltzer responded that those figures are provided by the waste haulers in their quarterly reports to the Emmet County Department of Public Works (DPW), and are included where applicable. L. Smith commented on the lack of commercial businesses recycling, especially glass and aluminum from his church being thrown out. E. Seltzer noted that aluminum can be recycled with tin cans, and that there are no commercial recycling programs at this time, except for cardboard pick-up provided by waste haulers. K. Pacquet asked E. Seltzer about the reduction of corrugated cardboard rates. E. Seltzer responded that due to the Asian economy, the markets for all paper products are presently sluggish, and would probably be for some time. L. Smith asked if the DPW had ever considered recycling styrofoam. E. Seltzer explained that it was not marketable, taking cost to recycle vs. income from it, and space used at landfills. I t was also noted that due to the requests received from individuals and companies, the DPW office obtained a list of downstate drop-off sites from Dart Container Corporation, the only recycler of styrofoam in Michigan. Those serious about recycling styrofoam and/or those with large

quantities can make arrangements to drop it off with a downstate site. E. Seltzer also mentioned that there are other ways to recycle, such as reusing the styrofoam peanuts or taking them to postal places, for them to use when shipping items. It was asked if it was okay to burn them, in which E. Seltzer stressed that no plastics should ever be burned, due to the toxics they release into the air. L. Smith asked if E. Seltzer thought that the DEQ would approve the plan. E. Seltzer again stressed that at least 67% of the municipalities need to approve it, before it can be submitted for final approval by the DEQ. L. Smith asked how Emmet County compared to other counties of Northern Michigan, in regards to percentage of recycling. E. Seltzer said that Emmet County's recycling rate was the highest in Northern Michigan, noting that Grand Traverse County was the most comparable. She also noted that during 1998, officials from other counties had visited the Transfer Station and several requests have been made for a presentation by the Emmet County DPW, regarding the county's recycling program. L. Smith asked if there was any notable change in the amount recycled since the Bliss drop-off site had been changed to Pleasantview and Gill Roads. D. Mapes said that volumes had increased. E. Seltzer noted that recycling volume is up about 25% overall this year and that due to the increase, the county is in the process of ordering more recycle bins. L. Smith noted that even at it's new location in Bliss Township, residents of Mackinaw City and Wawatam Township had to travel quite far. R. Heilman feels that Mackinaw City residents would like a drop-off site. It was asked why the recycle drop-off site on Wheeling Road in Carp Lake was no longer in existence. E. Seltzer explained that the Carp Lake site had been sponsored by the waste hauler, who later suspended the service. E. Seltzer pointed out that Carp Lake and Mackinaw City had chosen not to adopt Ordinance 20, which regulates the collection, transportation and disposal of solid waste. Those municipalities that do not want to adopt Ordinance 20, can pay to have a recycle drop-off site maintained and those that have adopted it are provided the service at no charge.

E. Seltzer asked three (3) more times for any questions or comments from the public. There being no further comments or questions, E. Seltzer closed the public hearing at 8:05 p.m.

Respectfully submitted

Elisa L Seltzer

Elisa Seltzer, Director of Emmet
County Department of Public Works

MS Word\swpubhrg1298.doc

EMMET COUNTY, MICHIGAN
SOLID WASTE MANAGEMENT PLAN PUBLIC HEARING
7:30 PM, DECEMBER 2, 1998
Record of Public Attendance

Name	Address	Date
Robert R. Heilman	Mackinaw City	12-2-98
Joyce Conrad	Petoskey Mich	
Lawton R. Smith	P.O. Box 473 Mackinaw City	12/2/98
Jane Dunshee	News-Review 49701	
Roseanna Smith	P.O. Box 473 Mackinaw City, Mi.	12-2-98

County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY MICHIGAN 49770
616 348-0640
FAX 616 348-0633

NOTICE OF SPECIAL MEETING

A special meeting has been scheduled for the Solid Waste Management Planning Committee, to take place:

Date: Wednesday, January 13, 1999
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division St.
Petoskey, MI 49770

Emmet County
Department of Public Works
(616) 348-0640

County of Emmet

DEPARTMENT OF PUBLIC WORKS
200 DIVISION STREET
PETOSKEY, MICHIGAN 49770
616 348-0640
FAX 616 348-0633

SOLID WASTE PLANNING COMMITTEE

Meeting Notice

Date: Wednesday, January 13, 1999
Time: 7:30 p.m.
Place: Commissioners' Board Room
Emmet County Building
200 Division Street
Petoskey, MI 49770

Agenda

1. Call to Order
2. Roll Call
3. Minutes
4. Public Comment
5. Communications
6. Old Business
7. New Business
   - Revised Plan (Presentation by RRSI)
8. Other Business
9. Adjourn

Committee Members: Please call the DPW Office at 348-0640 if you are unable to attend this meeting. Please note that supplemental materials from RRSI for this month's meeting will be sent under separate cover.

The Natural Resources and Environmental Protection Act requires a detailed agenda be mailed to the chief elected official of each city, township, and village in the county 10 days prior to the meeting.

Solid Waste Planning Committee Meeting
January 13, 1999

Members Present:	J. Erber, Chairperson; A. Smith, Vice-Chairperson; A. Baughman; L. Blanchard; D. Mapes; R. Moreau; G. Williams; J Hass; R. Hitz; K. Pacquet
Members Absent:	W. Goodwin; D. Keiser, Secretary; J. Lively; D. Pizzurro
Staff Present:	E. Seltzer; M. Putters
Other Attendees:	Jim Frey, Resource Recycle Systems, Inc. (RRSI); Robert R. Heilman; B.J. Planitz

Call to Order
The meeting was called to order by Chairperson J. Erber at 7:35 p.m.

Roll Call
A roll call was conducted resulting in the above documentation of attendance.

Minutes
The minutes of the December 2, 1998 meeting were distributed and reviewed. It was noted that Committee Member R. Moreau was not present at the December meeting. G. Williams moved the corrected minutes be approved. K. Pacquet seconded the motion. The motion carried.

Communications
E. Seltzer passed around folder with written communications received since the last meeting. E. Seltzer noted that Delta, Cheboygan and Antrim Counties all wish to tour the Transfer Station. E. Seltzer also mentioned Department of Environmental Quality (DEQ) approval process will take 4 to 5 months.

Old Business
None.

New Business
E. Seltzer introduced the Revised Plan and indicated that changes were made based on input from Emmet County municipalities, but mostly in response to DEQ requests. Jim Frey, of RRSI, presented the Summary of Plan Changes and explained what was changed, why, and where in the document. There was a question from J. Hass, regarding the import/export pages and N/A (Not Applicable). J. Frey responded, explaining the relevance and importance of these tables. K. Pacquet asked who put in language regarding interstate commerce-transporting of waste. J. Frey responded the Emmet County Prosecuting Attorney's office. J. Erber asked if NAFTA entered into this in regards to Canada. J. Frey responded that due to NAFTA, flow of waste over country borders cannot be controlled. K. Pacquet noted that waste could be hauled to Canada, with conversion factor, $8.00 cu. yd. = $5.00 there. Quite attractive compared to $18.50 per cubic yard. Clarification was made by J. Frey that in the section located on page III-43, Type B Transfer Stations are exempt from DEQ permitting and from local zoning, but not from the Plan itself. It would need to follow siting criteria for Type A Transfer Stations. J. Frey explained that if the Committee approved the Plan, with editorial changes made by staff, , the Plan would go to the Emmet County Board of Commissioner for approval the next day. Upon their approval, the Plan would be released to the municipalities for local approval. R. Hitz made a motion to approve the Solid Waste Management Plan Update, as written, with identified editorial

corrections made. A. Baughman seconded the motion. A vote was taken, resulting in the following: Yes; J. Erber, A. Smith, A. Baughman, L. Blanchard; D. Mapes, R. Moreau, G. Williams, K. Pacquet, J. Hass, R. Hitz; No-None; Absent-D. Keiser, L. Lively, D. Pizzurro; W. Goodwin.

E. Seltzer thanked the committee members for their time and efforts over the past year and informed them that the next SWMP meeting will be scheduled if and when deemed necessary.

Public Comment.
There was no public comment.

Adjournment
There being no further business, Chairman J. Erber adjourned the meeting at 9:20 p.m.

Respectfully submitted

Elisa L Seltzer

Elisa Seltzer, Director of Emmet
County Department of Public Works

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January 15, 1999 Petoskey, Michigan

Roll Call

The Emmet County Board of Commissioners met in regular session on January 15, 1999 at 7:00 P.M. In the Board of Commissioners Room, County Building, Petoskey. Present were: Leroy Gregory, James Tamlyn, Patricia Mather, Jack Jones, James Erber, Doug Jardine and Nick White. None were absent.

Minutes Approved

It was moved by Gregory and supported by Mather that the reading of the minutes of the January 4, 1999 meeting be waived and approved as printed. Voice vote. Motion carried.

Solid Waste Management Plan Update Approved

Jones presented the Solid Waste Management update for consideration, and moved to approve the Plan update with identified editorial corrections allowed, and that the Plan be released to the municipalities for local approval.

Jones' motion was supported by Tamlyn and carried in a unanimous roll call vote.

DPW Recycling Containers Bid Awarded

Tamlyn moved that the bids on five (5) recycling containers be awarded to Actron Steel at a total cost of $35,960. Tamlyn's motion was supported by Jardine and carried in a unanimous roll call vote.

Self Dumping Hopper Appr.

Also presented was authorization to purchase a self dumping hopper at a cost of $1,753. It was moved by Jardine and supported by Jones that the purchase be authorized. The motion carried in a unanimous roll call vote.

Both purchases are subject to the review and approval of the Dept. of Public Works Board on January 19th, and are budgeted for 1999.

Stormwater Ordinance Committee Appt.

On recommendation from the Soil Erosion Control Officer Nancy Salar, Jones moved that the Board authorize the appointment of a committee comprising of the following, to explore the feasibility of adopting a Stormwater Ordinance for Emmet County:

Nancy Salar, Soil Erosion Officer
A Board member from the Soil Conservation Board
Jim Erber, Board of commissioners
A representative from the Michigan Township Association
Max Putters or Emily Meyerson from the Office of Planning and Zoning

supported by Tamlyn and carried in a unanimous roll call vote.

Jail Update

Jones, Chair of the Building and Grounds Committee, gave a brief update on the Jail project noting that a recent break in the water line was repaired at a minimal cost.

Correspondence re Em. Services

Chair Erber read a letter from the State Police advising of a change in plans and procedures for emergency preparedness for Big Rock. The Department will be working with Kathy Simmons on those revisions in our Emergency Plan.

Announcements

The following announcements were made:

- Planning Commission work session at Bay View Administration Building on January 16, 1999, 9:00 a.m. to 2:00 p.m. County Commissioners are invited.

- a joint meeting with Charlevoix and Cheboygan Counties on January 19th, 1999 at 3:00 p.m. at the 911 Center.

Public Comment

Under "Public Comment" Springvale Township resident Alyce Conrad posed some questions to the Board regarding the permissibility of commissioners to abstain from voting on appointments to the Planning Commission. She also questioned the appointment of elected officials to the Planning Commission and the Zoning Board of Appeals.

Commissioner White noted that he frequently abstains from voting on issues wherein he has a clear conflict, that presenting documents to the Office of Planning and Zoning for review, and of representing clients requesting rezonings or variances.

In differentiating between "county official" and "county officer", a Prosecutor's opinion several years ago indicated that county officials can be appointed to those two boards, but County Officers could not.

An Attorney General's opinion was later requested but no response was ever received. Prosecutor Engle noted that the reason could be that the AG did not want to deal with the issue, but perhaps the new Attorney General will be more obliging.

Adjourn

There being no other business to transact, the meeting was adjourned by the Chair.

Irene D. Granger
Irene D. Granger, Clerk

2-18-99
James Erber, Chair

SWMP Update Mailing List

Bear Creek Township Supervisor
Alfred E. Foster
1457 Atkins Road
Petoskey, MI 49770

Bliss Township Supervisor
Philip F. Lechowicz
6274 Pleasantview Road
Levering, MI 49755

Carp Lake Township Supervisor
Sam Cadwell
8889 Reed Road
Carp Lake, MI 49718

Center Township Supervisor
Edward Jurek, Jr.
160 Pleasantview Road
Pellston, MI 49769

Cross Village Township Supervisor
David Munger
6607 Lakeshore Drive
Cross Village, MI 49723

Friendship Township Supervisor
Arthur Blauwaert
P.O. Box 618
Harbor Springs, MI 49740

Littlefield Township Supervisor
Damien Henning
P.O. Box 466
Alanson, MI 49706

Little Traverse Township Supervisor
William Dohm
3198 Heydey
Conway, MI 49722

Maple River Township Supervisor
John Eby
3533 W. Brutus Road
Alanson, MI 49706

McKinley Township Supervisor
Leonard G. Readmond
5255 Ball Road
Levering, MI 49755

Pleasantview Township Supervisor
Thomas R. Curnow
3171 Valley View Estates
Harbor Springs, MI 49740

Readmond Township Supervisor
Bruce O'Connor
4900 North State Road
Harbor Springs, MI 49740

Resort Township Supervisor
Frank Bedard
842 Crooked Tree Drive
Petoskey, MI 49770

Springvale Township Supervisor
Frank "Tom" Whipp
8198 East Mitchell
Petoskey, MI 49770

Wawatam Township Supervisor
John H. Paquet
202 DuJauney
Mackinaw City, MI 49701

West Traverse Township Supervisor
David Leik
4371 Heynig Road
Harbor Springs, MI 49740

Village of Alanson President
Richard Weidenhamer
7446 Spring Street
Alanson, MI 49706

Village of Alanson, Clerk
Iris Lesh
P.O. Box 152
Alanson, MI 49706

Manager, Mackinaw City
Ray Lawson
P.O. Box 580
Mackinaw City, MI 49701

President, Mackinaw City
Robert Heilman
PO Box 99
Mackinaw City, MI 49701-0099

Village of Pellston President
James Gillett
6528 E. State St.
Pellston, MI 49769

Village of Pellston Clerk
Wendy Kent
P.O. Box 377
Pellston, MI 49769

Harbor Springs City Manager
Fred Geuder
City Hall, Main Street
Harbor Springs, MI 49740

Petoskey City Manager
George Korthauer
100 W. Lake Street
Petoskey, MI 49770

John Lighthouser
350 Lakeview Road
Levering, MI 49755

Ken Pacquet
United Waste Systems of Onaway
1307 Higgins
Cheboygan, MI 49721

Don Pizzurro
Waste Management of Northern Michigan
06982 Old Norwood Road
Charlevoix, MI 49720

Jamie Hass
Walloon Lake Refuse Service
P.O. Box 100
Walloon Lake, MI 49796

Ann Baughman
Tip of the Mitt Watershed Council
PO Box 300
Conway MI 49722

Richard Hitz
Mackinac Forest Council
P.O. Box 2419
Petoskey, MI 49770

Jim Erber
3211 Townsend Road
Petoskey, MI 49770

Jim Lively
Northwest Michigan Council of Governments
P.O. Box 506
Traverse City, MI 49685-0506

Rich Moreau, Plant Engineer
Petoskey Plastics
4226 US 31 South
Petoskey, MI 49770

Ann Smith
546 West Lake Street
Petoskey, MI 49770

Lisa Blanchard
700 Mini Dr.
Petoskey, MI 49770

Gary Williams
P.O. Box 953
Mackinaw City, MI 49701

Don Mapes, Superintendent
Emmet County Transfer Station & Recycling Center
2491 E. Brutus Rd.
Alanson MI 49706

Dennis Keiser
937 Kolinske
Petoskey, MI 49770

Walter Goodwin
City of Petoskey, Dept. of Public Works
100 West Lake Street
Petoskey, MI 49770

Jane Dunshee
Petoskey News-Review
PO Box 528
Petoskey MI 49770

Matthew Fortunak
Leelanau County Planning Department
PO Box 546
Le MI 49654-0546

Larry Sullivan
Charlevoix County Solid Waste DPA
County Building, 301 State St.
Charlevoix, MI 49720

Charles H. Brown, Cheboygan County Controller
Room 118, County Building
870 S. Main St.
Cheboygan, MI 49721

Harbor Springs Library
206 S. Spring Street
Harbor Springs, MI 49740

Mackinaw Area Public Library
528 W. Central
Mackinaw City, MI 49701

Nor... Central Michigan College Library
ATTN: Nancy Henry
515 Howard St.
Petoskey, MI 49770

Bliss Branch Library
265 W. Sturgeon Bay Trail
Levering, MI 49755

Jan Sealock, DEQ Solid Waste Program Section
Waste Management Division
PO Box 30241
Lansing, MI 48909-7741

Diane Rekowski
Northeast Michigan Council of Governments
PO Box 457
Gaylord, MI 49735-0457

Alanson Area Public Library
7631 Burr Ave.
Alanson, MI 49706

Levering Branch Library
6236 Mill St.
Levering, MI 49755

Petoskey Public Library
ATTN: Barb Cook
451 E. Mitchell St.
Petoskey, MI 49770

Pellston Library
Marsha Shiels
175 N. Milton St.
Pellston, MI 49769

Solid Waste Planning Committee
Solid Waste Plan Input Received From Municipalities
October 1 - December 30, 1998

Wawatam Township September 8, 1998
Very interested in recycling services being expanded into their area. Concerned about being limited to only one waste hauler and continually increasing rates for garbage disposal.

Resort Township November 4, 1998
Very impressed with Plan and existing recycling programs.

Village of Pellston November 9, 1998
Interested in Fall leaf pick-up being provided in their village. Some residents voiced interest in having recycle drop-offs in the village to improve convenience of recycling. Also voiced support for backyard compost bin distribution.

Cross Village Township December 1, 1998
Very supportive of illegal dumping enforcement and pro-active measures taken to minimize dumping, as outlined in Plan. Concern regarding merging of waste industry, increased costs, and no options for garbage pick-up service providers were big issues as well. Interest in addressing junk cars, perhaps with incentives to have removed. Want haulers required to drive every road in rural areas and provide service.

Public Hearing December 2, 1998
Representatives of townships without recycle bins voiced support for expanded recycle programs.

Mackinaw City December 3, 1998
Interest in recycling bins sited in the village was expressed. Concern about increasing garbage rates was voiced.

City of Harbor Springs December 7, 1998
Interest in curbside recycling but concerned whether it could be maintained once established. Opposed to the County developing programs that may only benefit certain populations (such as fall leaf pick-up in some villages but not others, or curbside in one community but not all of them). Also concern regarding waste provider setting dumpsters in residential areas. Interested in seeing stump disposal regulated and have stumps ground and recovered.

West Traverse Township December 8, 1998
Supportive of the Plan; curious about recycling markets, appreciate recycling program. Interested in HHW disposal options for Conditionally Exempt Small Quantity Generators. Didn't like seeing three haulers on one rural road; tearing up roads. Interested in options for franchising or contracting for service, with curbside recycling included.

Little Traverse Township **December 12, 1998**

Comment received regarding Spring Clean-ups and the township's opposition to providing such service; questioned whether they would be included in 'urban' definition of those encouraged to offer annual clean-ups. Garbage trucks' impact on roads was discussed, and maintaining a clean corridor to and from the transfer station. Supportive of Plan and intends to approve it.

Note: Minutes were requested from these meetings to document input from boards, councils, and the public. The comments documented here reflect notes taken during the meeting.

SOLID WASTE MANAGEMENT PLAN
MUNICIPALITY APPROVAL/DENIAL

MUNICIPALITY	CONTACT PERSON	DATE APPROVED	DATE DENIED
Bear Creek Twp.	Alfred Foster, Supervisor	3/10/99	
Bliss Township	Philip Lechowicz, Sup.	2/9/99	
Carp Lake Twp.	Sam Cadwell, Supervisor		
Center Township	Edward Jurek, Jr., Sup.	4/6/99	
Cross Village Twp.	David Munger, Sup.	3/23/99	
Friendship Twp.	Dale Scott, Supervisor	3/1/99	
Littlefield Twp.	Damien Henning, Sup.	2/2/99	
Little Traverse Twp.	William Dohm, Sup.	2/13/99	
Maple River Twp.	John Eby, Supervisor	3/29/99	
McKinley Township	Leonard Readmond, Sup.		
Pleasantview Twp.	Thomas Curnow, Sup.		
Readmond Township	Bruce O'Connor, Sup.		
Resort Township	Frank Bedard, Sup.	4/6/99	
Springvale Township	F. Tom Whipp, Sup.	5/17/99	
Wawatam Townhip	John Paquet, Supervisor		
West Traverse Twp.	David Leik, Supervisor	2/9/99	
Alanson, Village	Richard Weidenhamer,Pres		
Mackinaw City	Jeffrey Lawson, Manager	2/4/99	
Pellston, Village	Mary Hessel, President		
Harbor Springs, City	Fred Geuder, Manager	2/15/99	
Petoskey, City	George Korthauer, Man.	2/1/99	

BEAR CREEK TOWNSHIP

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Bear Creek Township hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

I hereby certify that the foregoing constitutes a true and complete copy of a resolution adopted by the Bear Creek Township Board of Trustees, County of Emmet, Michigan, at a regular meeting held on March 10, 1999

Judy Mays, Clerk

Judy Mays - Clerk

BLISS TOWNSHIP

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Bliss Township hereby approves the Emmet County Solid Waste Management Plan Update as published for submittal to the Michigan Department of Environmental Quality.

Philip Lechowicz
Bliss Township Supervisor
Feb-7, 1999

Center Township

Bonnie Godzik, Clerk
3800 Canby Road
Pellston, Michigan 49769

Phone 616-539-8597
Email godzik@freeway.net

April 12, 1999

County of Emmet
Department of Public Works
Elisa L. Seltzer, Director
200 Division Street
Petoskey, Michigan 49770

Dear Elisa,

On April 6, 1999 the Center Township Board discussed the Emmet County Solid Waste Management Plan update. This update was approved by the Board of Commissioners on January 14, 1999.

After discussing and reviewing the updated plan and noting it has also been approved by the Board of Commissioners as well, we do not foresee any objections to it.

The Center Township Board hereby approved the Emmet County Solid Waste Management Plan Update as written for submittal to the Michigan Department of Environmental Quality.

Sincerely,

Bonnie Godzik

Bonnie Godzik
Center Township Clerk

CROSS VILLAGE TOWNSHIP

Resolution on the Emmet County Solid Waste Management Plan Update

WHEREAS, Emmet County has been directed to prepare an update of the 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, and

WHEREAS, An adopted County Solid Waste Plan protects Emmet County's ability to plan and provide for future solid waste disposal including expanding resource recovery alternatives in the County, and

WHEREAS, Emmet County's Board of Commissioners appointed a Solid Waste Management Planning Committee which drafted a Solid Waste Plan, distributed the Draft Plan to all municipalities during a ninety-day Public Comment Period, and held a Public Hearing as required by law, and

WHEREAS, Emmet County's Solid Waste Management Plan Update was approved by the duly appointed Solid Waste Planning Committee by unanimous vote on January 13, 1999, and the same plan was approved by the Emmet County Board of Commissioners on January 14, 1999 by unanimous vote, and

WHEREAS, Approval by 67% of governing bodies within the county is required for Plan approval by the Michigan Department of Environmental Quality, pursuant to the Solid Waste Management Act,

NOW THEREFORE BE IT RESOLVED, that Cross Village Township hereby approves the Emmet County Solid Waste Management Plan Update as written for submittal to the Michigan Department of Environmental Quality.

The above resolution was approved on a motion by Kermit Scribner, seconded by Barry Siegel, at the March 23, 1999 regular Cross Village Township Board meeting. Roll call vote: Ayes: Barry Siegel, Marie Krupa, David Munger, Kermit Scribner. Nays: None. Absent: Lois Graham.

Letitia Scribner

Letitia Scribner, Deputy Clerk
Cross Village Township

2100 LEGAL NOTICES

CHARLEVOIX TOWNSHIP
PLANNING COMMISSION
PUBLIC HEARING NOTICE

On October 21, 1998 the Charlevoix Township Planning Commission will hold a public hearing at 7:30 p.m. at the Charlevoix Township Hall on Waller Road. The purpose of the public hearing is to consider the request of Jerry Puhl to rezone property identified by property tax code numbers 15-004-033-002-00 and 15-004-033-002-10 and located directly behind Jerry Puhl's property at 06219 US-31 South. The request is for a rezone change from Agricultural to C-1 (Community Service Zone).

Complete description and all pertinent data may be examined at the office of the Clerk at 12491 Waller Road, Charlevoix Township on Mon., Wed., and Thurs., mornings.

s/Carol Martin
(L-10/1,10/15)

EMMET COUNTY
NOTICE

The draft Emmet County Solid Waste Management Plan has been released by the Emmet County Solid Waste Management Planning Committee for a 90-day public comment period, as required by Section 11535 of the Solid Waste Act 153 of Michigan.

A public hearing will be held on Wednesday, December 2 at 7:30 p.m. at the Emmet County Building, 200 Division Street, Petoskey in the Commissioners Board Room.

A copy of the draft plan may be viewed at the Emmet County Clerk's Office, 200 Division Street, Petoskey. Copies are also available for viewing at local public libraries.

Written comments may be directed to the Emmet County Department of Public Works, 200 Division Street, Petoskey, MI 49770.

(L-10/1)

HAYES TOWNSHIP
PLANNING COMMISSION
PUBLIC HEARING

The Hayes Township Planning Commission is holding a hearing, October 6, 1998 at 7:30 p.m., at the Township Hall located at 09195 Old US 31 North (West of Burgess Road) to propose amendments to several Sections of the Hayes Township Zoning Ordinance, being:

1. Section 2.02-Definitions
2. Section 3.01-Kinds of Districts
3. Section 4.04-"R-4", Multiple Family Residential
4. Section 4.12-"A-1", Agricultural
5. Section 4.12C-"RR-2", Rural Residential (delete)
6. Section 4.13-Zone District Regulations (Floor Space Requirements; Lot Area Regulations; Lot Width Requirements)
7. Addition of Section 4.16-Wireless Communication Facilities
8. Addition of Section 4.17-Outdoor Lighting
9. Section 5.03-Lot Building Relationship
10. Section 5.04-Accessory Building as Dwellings in A-1 Zoning District
11. Section 5.06-Essential Services

NATION NEWS BRIEFS

Cable industry to give libraries free Internet hookups

WASHINGTON — The cable TV industry plans to provide the nation's public libraries with free high-speed connections to the Internet.

The goal is to wire all public libraries nationwide — estimated at 14,000 to 15,000— National Cable Television Association spokeswoman Torie Clarke said Wednesday. But she did not know how many public libraries would be wired in the program's first year.

The program builds on a 2-year-old cable industry initiative to provide the nation's schools with high-speed hookups to the Internet for free. So far, more than 2,500 schools have been connected.

Impeachment approach debated

WASHINGTON — For all their talk about bipartisanship, House Republicans and Democrats have vastly different ideas about the scope of any impeachment inquiry into President Clinton's relationship with Monica Lewinsky.

A proposed GOP resolution outlined Wednesday would give House Judiciary Committee investigators broad, Watergate-style authority to subpoena witnesses and evidence without a committee vote if Chairman Henry Hyde, a Republican, and Rep. John Conyers, the panel's top Democrat, agreed.

It also would afford Clinton's lawyers the right to cross-examine witnesses, attend all meetings and object to evidence. It would not, however, meet Democratic demands that the inquiry be limited to the allegations against Clinton in the Lewinsky matter, which include possible perjury, witness tampering and obstruction of justice.

Conyers and House Minority Leader Dick Gephardt, D-Mo., planned to meet today to hear from four committee Democrats who have been exploring ideas for a more limited probe.

Texas city stages test of 'Y2K' doomsday effects

LUBBOCK, Texas — A cold front was icing streets and causing power outages. A riot at a prison outside town was using up valuable police resources. To make matters worse, the 9-1-1 emergency system was broken.

The nightmare scene didn't really happen, but Lubbock officials imagined it did Wednesday as part of a test of how the city could react if, as many fear, computers driving vital public systems fail to recognize the year 2000.

The west Texas city of more than 180,000 people didn't test any equipment but rather conducted a drill to see how city personnel responded to mock crises. It was called the first such citywide simulation of the problem in the nation.

Compiled by Neil Stilwell from Associated Press reports.

WORLD NEWS BRIEFS

Report: U.S. to let go spy Pollard

JERUSALEM — The United States has agreed to release Jonathan Pollard, an American jailed 13 years ago for spying for Israel, an Israeli newspaper reported today.

The Yediot Ahronot daily said that President Clinton and Prime Minister Benjamin Netanyahu agreed in their

blemishing the image of Malaysian police.

After first suggesting that the former deputy prime minister had beaten himself on the face, neck and arms during 10 days in police custody, Prime Minister Mahathir Mohamad called for an investigation.

"We can't accept this and we will undertake full investigations," Mahathir was quoted as saying in today's New Straits Times. "The police cannot harm their detainees in the course of their interrogation."

Mahathir fired Anwar on Sept. 2 from his posts as deputy prime minister and finance minister, saying he

NOTICE OF MEETING CANCELLATIONS

The following Solid Waste Management Planning Committee meetings have been canceled due to the completion of the Emmet County Solid Waste Management Plan. The Plan is now in the Public Comment stage, which runs through December 30, 1998.

Wednesday, October 28, 1998
Wednesday, November 25, 1998
Wednesday, December 23, 1998

Please note that the Public Hearing on the Emmet County Solid Waste Plan is scheduled for December 2, 1998, at 7:30 p.m. in the County Commissioners' Board Room. The Plan can be viewed at the Emmet County Clerk's Office.

Emmet County
Department of Public Works
(616) 348-0640

Comments may be directed to the Emmet County Department of Public Works, 200 Division Street, Petoskey, MI 49770.

1930 PICKUPS/VANS & LIGHT TRUCKS

1998 TRACKER mini-SUV, perfect condition, air, CD, 4x4, four door, seven months old, 8,400 miles, transferable warranties good for 10 years. New $18,281, sacrifice at $14,500. 348-5035.

FOUR MINI VANS TO CHOOSE FROM
Prices from $3,450. Seven passenger, all-wheel drive, cargo, extended. Affordable Used Cars & Trucks. 548-2192.

1950 HEAVY EQUIPMENT

1962 F850 Dump Truck Dual axle, 10 yards, works well. Looks rough. Asking $1,000. (616)439-9217.

FORKLIFT ALLIS Chalmers, LPG (for indoor use), 5,000 pound capacity, double mast, cushion tire. Asking $3,500. Call Craig at (616)348-5904.

WELDER THREE-PHASE electrical, large welder in excellent shape. Asking $950. Call Craig at (616)348-5904.

2000 CAMPERS/MOTOR HOMES & FIFTH WHEELS

1966 20' Holiday trailer, perfect for hunting camp. $650 or best offer. (616)348-5088.

1981 SAFARI 32', new carpet and tile, TV, air, good condition. $5,000 or best offer. Call (616)537-2618.

1992 WILDERNESS fifth wheel, 26-1/2 foot, loaded, excellent condition, new tires. $7,800. Call (616)536-2991.

1994 PALOMINO camper, fold-up, large family size, lots of extras, very good condition. $4,900 or best offer. Call (517)732-0668.

1996 SPORTSMEN pickup camper, queen bed, toilet, stove, refrigerator, eight foot, fits super cab. $5,400. (616)547-9004.

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ALL PREPAID, 1 ITEM, 1 Week Ads are eligible

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(Offer expires December 31, 1998)

2030 BOATS & MARINE EQUIPMENT

BOAT SALE

The following boats have been donated to the local junior sailing school and are being sold to fund future junior sailing programs.

Please contact the Irish Boat Shop and make an offer. No reasonable offers refused.

SAILBOATS

1979 Pearson 26
15HP outboard, roller furling, self-tailing winches, awl-grip paint, great condition, ready to sail, blue book $8500-$10,000 ..... Offer at $7,500

1980 Ericson 25+
Sail drive, 6' headroom, great package for cruising or PHRF racing, blue book $8,900-$10,900 ..... Offer at $4,200

1981 Snipe
Race ready, on trailer with 3 sets of sails, great shape $1,900

1986 Zuma
Great beach sailer, good condition, with beach dolly $800

POWERBOATS

1978 Trojan F-25
Chrysler 318, soft top, good condition, blue book value $10,700-$12,300, ready to cruise $5,900

LAKE CHARLEVOIX MARINERS
616-547-9967
13000 Stover Rd. • Charlevoix

2040 SAILBOATS & ACCESSORIES

1983 FREEDOM 21, reduced to $3,500. (616)547-1817.

2050 RECREATIONAL VEHICLES FOR SALE/RENT

1978 TERRY Taurus camper, 24 foot bunkhouse, good condition. $3,500 or best. 347-2601 nights, 347-1994 days.

1987 POLARIS ATV. $1,500 or best offer. Call after 5 p.m. (616)347-5339.

2090 BIDS WANTED

BIDS WANTED
Northern Michigan Community Mental Health Services, One MacDonald Drive, Suite A, Petoskey, Michigan 49770, will be accepting bids for snow removal. The bid should include snow removal and sanding of parking areas and sidewalks. The bids should be broken down to separate snow removal and sanding costs. Bids will be

2100 LEGAL NOTICES

EMMET COUNTY
DEPARTMENT OF PUBLIC WORKS
PUBLIC HEARING

There will be a Public Hearing held on Emmet County's draft Solid Waste Management Plan on Wednesday, December 2, 1998, in the Emmet County Commissioners' Board Room, Emmet County Building, 200 Division Street, Petoskey, MI at 7:30 p.m.

A copy of the Solid Waste Management Plan draft may be viewed at the Emmet County Clerk's Office or at public libraries in Emmet County.

Note: The previously published November 11 hearing date has been changed to December 2 to avoid conflicting with Veteran's Day. The December 2 public hearing will be the only public hearing on the draft Solid Waste Management Plan.

Emmet County
Department of Public Works
(616)348-0640
(L-10/30)

LEGAL ADVERTISING
Petoskey News-Review

Deadline for legals of average length is 3 p.m. day before publication.
Deadline for multiple column, bordered and/or legals of intricate or tabular detail is 11 a.m. day before publication.
No legal advertising is accepted over the telephone.

LITTLEFIELD TOWNSHIP

The Littlefield Township Board November meeting will be held on Wednesday, November 4, 1998 at 7 p.m. at the Littlefield Township Hall. Change of date because of General Election on Tuesday.

Avis Granger, Clerk
(L-10/30)

Mich-CAN Statewide Ad Network

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$239 buys a 25-word classified ad offering 1,430,000 circulation. Contact Petoskey News-Review Classified Department for details.
347-2544

READMOND TOWNSHIP
BUDGET PUBLIC HEARING NOTICE

The Readmond Township Board will hold a public hearing on the proposed township budget for fiscal year 1998-99 at the Township Hall, on Wormwood Lane, on November 4, 1998 at 6:00 p.m.

The property tax millage rate proposed to be levied to support the proposed budget will be a subject of this hearing.

ARTICLE XXI - GENERAL PROVISIONS: SPECIAL AND CONDITIONAL LAND USES

INTENT

The Special and Conditional Uses in this Article are uses requiring special reviews because they may have activities that have affects which project beyond property lines, may require lengthy standards for review and/or may not be currently allocated to one zoning district, uses herein may be considered to be Special Uses, Conditional Uses, and/or Exception Uses.

SECTION 2100. SPECIAL APPROVAL USE AND CONDITIONAL USE REVIEW STANDARDS

In reviewing all requests for Principal Uses Subject to special Conditions and Conditional Uses Authorized by Special Permit, Planning Commission or Zoning Administrator shall require compliance with any of the following as may reasonably apply to the particular use under consideration:

1. Non-detrimental impact upon the surrounding uses in the District, particularly as related to traffic generating potential, servicing by trucks, hours of operation and pedestrian traffic.

2. Site size to accommodate the use, its future expansion, customary accessory uses and on site services (sewage disposal and water supply).

3. Impact of the proposed use on the quality and quantity of water resources, domestic water supplies and capacity to absorb the anticipated sewage disposal demand.

4. Entrance drives to the use and off-street parking areas shall be no less than twenty-five (25) feet from a street intersection (measured from the road right-of-way) or from the boundary of a different Zoning District.

5. The use does not conflict with the principles, goals, or objectives of the County Comprehensive Plan.

6. Suitability of access to the use, assuring that minor residential streets are not used to serve uses that have larger area-wide patronage.

7. Allowance is made for vehicles to enter and exit the use safely and no visibility impediments to drivers are created by signs, buildings, land uses, plantings, etc.

8. Open spaces and common areas, when offered by an applicant as an integral element of a Planned Unit Development or Special Use Permit Project, may be required to be formally assured by one or more of the following instruments:

   a) Scenic Easement
   b) Conservation Easement
   c) Deed Restriction
   d) A similar dedication mechanism

   The open space dedication instrument shall name the State, the County, a Local Unit of Government, or a land conservation/conservancy organization, as a party to the instrument, as determined to be most acceptable for the particular property and agency involved.

SECTION 2102. SPECIAL USES AND CONDITIONAL USES AUTHORIZED BY SPECIAL PERMIT

In every case the uses herein-after referred to shall be prohibited from any Districts not specifically listed. These uses require special consideration since they may service large areas, require sizeable land areas and/or may create problems of control with reference to abutting use Districts.

11. SANITARY LANDFILLS
All sanitary landfill operations shall be approved by the Planning Commission and shall comply with standards prescribed by applicable State and County health regulations; provided no such operation shall be permitted in any R-1, RR or SR District and further shall be conducted on sites located no less than 1,000 feet from any public street and be screened from sight by natural terrain, greenbelts, natural wooded areas or finished and maintained screening fences.