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

January 30, 2001

Ms. Mary Pitcher, Chairperson
Benzie County Board of Commissioners
P.O. Box 377
Beulah, Michigan 49617

Dear Ms. Pitcher:

The Department of Environmental Quality (DEQ) received the locally approved update to the Benzie County Solid Waste Management Plan (Plan) on April 11, 2000. Except for the items indicated below, the Plan is approvable. As outlined in the June 15, 2000 letter to Mr. David A. Neiger, Director, Benzie County Planning Department, from Mr. Stan Idziak, DEQ, Waste Management Division, and as confirmed by letter dated November 7, 2000, from you to Mr. Idziak, the DEQ makes certain modifications to the Plan as discussed below.

On page III-62 and III-63 of the Plan, Type II Landfill Disposal Area, line six: The sentence beginning in that line reads:

> 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 Solid Waste Transfer Station disposal area.

This sentence is confusing as written and is revised to read:

> 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 Solid Waste Landfill disposal area.

On page III-63 of the Plan, B 2 Recycling and Compost Processing Facility, line two: The phrase "of any type" should be deleted from this sentence. The term "source-separated" is defined in Section 11506(6) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), and has a specific application. Therefore, line two is modified to read: "A processing facility that processes only source-separated materials does not require a construction permit and operating license from the DEQ."

Also on page III-63 of the Plan, C: Facilities Not Included in this Plan, it reads:

> 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.

This statement is confusing and is revised to read:

> A proposal for any other disposal area defined in Part 115 of the NREPA, whether a solid waste facility, incinerator, sanitary landfill, processing plant, or other solid waste handling or disposal area utilized in the disposal of solid waste that is not sponsored by the County as outlined in Sections A.1 and A.2 above is not included in this Plan.

On page III-72 of the Plan, Minimum Standard Siting Criteria Evaluation Checklist, A: Site Ownership, and Primary Siting Criteria Detailed Descriptions, A, it reads: "The site and respective parcel must be owned by the applicant or under a long term lease (20 years or greater) from a state agency." This criterion is unnecessary since the Plan only allows siting for disposal areas that are sponsored by Benzie County (County). Sponsorship by the County is defined in the Plan in Sections A.1 and A.2 on page III-63 to mean, at a minimum, County ownership of the land on which the disposal area is located. This criterion is deleted from the Plan.

On page III-83 of the Plan, III-12, Local Ordinances and Regulations Affecting Solid Waste Disposal, 3, it reads: "a. Certain ancillary construction details, ..." This statement is too vague. In general, the DEQ will not approve the broad inclusion of all local zoning authorizations in solid waste management plans as these ordinances may include provisions that will have siting impacts not included in the Plan's siting criteria, will provide for discretionary local decisions which will impermissibly impact siting decisions which by law are controlled by the siting provisions specified in the Plan, or may interfere with or conflict with the DEQ's regulatory responsibilities. The statement is revised to read: "a. Certain ancillary construction details, such as landscaping and screening, ..."

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 Benzie County. If you have any questions, please contact Ms. Joan Peck, Chief, Solid Waste Program Section, at 517-335-3383.

Sincerely,

Russell J. Harding
Director
517-373-7917

cc: Senator George A. McManus, Jr.
Representative David C. Mead
Mr. David A. Neiger, Director, Benzie County Planning Department
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Philip Roycraft, DEQ - Cadillac
Mr. Stan Idziak, DEQ
Benzie County File

BENZIE COUNTY PLANNING DEPARTMENT
COMPHEHENSIVE PLANNING • ZONING ADMINISTRATION
SOIL EROSION • SEDIMENTATION CONTROL
RECREATION DEPARTMENT • PLANNING COMMISSION
ZONING BOARD OF APPEALS

DAVID A. NEIGER — **DIRECTOR**
DON SWARTZ — **ZONING ADMINISTRATOR**

A COMMUNITY OF VISION
PRESERVING THE PAST . . . . PLANNING THE FUTURE

March 30, 2000

RECEIVED
APR 11 2000
Waste Management

Mr. Stan Idziak
MDEQ, Waste Management Division
Solid Waste Management Unit
P.O. Box 30241
608 W. Allegan, S. Ottawa Tower
Lansing, MI 48933

Re: Benzie County Solid Waste Plan

Dear Mr. Idziak:

Enclosed please find the Benzie County Solid Waste Management Plan Update, approved by the Benzie County Board of Commissioners and100% of the Local Units of Government. Appendix C: Public Participation and Approval contains all documentation of the resolutions passed by the Local Units of Government that have approved the Plan to date.

We are interested in expediting approval as soon as possible in order to make a wider group of landfills available for use in export waste hauled by our solid waste management system service providers, as provided in this Plan Update. To help in this process we have arranged with our technical consultant, James Frey of Resource Recycling Systems, Inc., to be available to answer any technical questions you may have about the Plan Update. He will keep us informed regarding any contacts you have with him, which should streamline your work load. He will be contacting you shortly to make sure you have received this document.

I look forward to hearing from you should any items need my attention. Please do not hesitate to contact me if needed.

Sincerely,

David A. Neiger

David A. Neiger, Director
Benzie County Planning

DAN/cf
enclosure

chris:c:\wpmyfiles\swac\2000\MDEQPLAN LTR(Also: P:\chrisfon'bca-nt',chris.SWAC)

Benzie County
Solid Waste Management Plan Update

As Approved by the Board of Commissioners
and
Local Units of Government

February 22, 2000

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

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Benzie County
Solid Waste Management Plan Update

As Approved by the Board of Commissioners and Local Units of Government

February 22, 2000

AS REQUIRED BY SECTION 11539 (a) OF

PART 115, SOLID WASTE MANAGEMENT, OF

THE NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT

1994 PA 451, AS AMENDED

DATE SUBMITTED TO THE DEQ: March 10, 2000

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

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE: Benzie County Planning Agency

CONTACT PERSON: Dave Neiger, Planning Director

ADDRESS: Benzie County Planning Department
PO Box 398
Beulah, MI 49617

PHONE: 616-882-9674

FAX: 616-882-4844

E-MAIL: bcedc@northlink.com

CENTRAL REPOSITORY LOCATION(S): Benzie County Planning Department

Benzie County
Solid Waste Management Plan Update
As Approved by the Board of Commissioners
and
Local Units of Government
February 22, 2000

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I-1 EXECUTIVE SUMMARY

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

OVERVIEW OF THE COUNTY

With the shore of northern Lake Michigan bordering on the west and the fast growing Traverse City area to the northeast, Benzie County benefits in modern times from a bustling regional resort and tourist economy. Not since the lumbering boom earlier in this century has the County's population reached its current levels.

One of ten counties in the Northwest Michigan Council of Governments (NWMCOG), Benzie County's 1995 population of 13,660 represented the smallest in the NWMCOG group. From 1990 to 1995, however, Benzie County, had one of the faster growth rates in population with an increase of 12%, (with only two other counties in northern Michigan registering higher growth rates).

Historically the population has settled in the inland lake and Great Lake shoreline communities in the County. Recent trends, driven by in-migration of residents to northern communities has resulted in additional population density in-land. Overall the population center of the County is gradually shifting towards the Traverse City area.

Benzie County has a large seasonal population, doubling during three summer months, and increasing from 13% to 27% in other months due to vacationers. The County has numerous multi-season recreational opportunities and amenities.

Benzie County is comprised of over 222,528 acres, the majority of which is forest, water and other open space. Cropland, orchards, and other agricultural land also accounts for a large percentage of the county at almost 9 percent of the total acreage compared to only 7 percent of the county comprised of residential, commercial and industrial use.

Benzie County	Land use by category					
	Cropland, Orchards, and Other Ag.	Forest, Water, Open Space	Industry, Transp. & Utilities	Commercial and Institutions	Residential	Wells and Mining
Percentage of total	8.88%	83.64%	0.24%	0.44%	6.65%	0.15%
Acres	19,760	186,139	546	987	14,766	331

Source: Land Use Acreage by Category Benzie County, Benzie County Planning Department

While the majority of land base in the county is rural, farming, fishing and forestry only account for 2 % of the employment in the county The remaining developed acreage contains 98% of the economic base.

Benzie County Employment by Category

	Ag/For/Mining	Professional	Sales/Services	Industry
Percentage of total	2.1%	20.9%	64.0%	13.01%

Source: Employment by Sector, Benzie County,
Table 15 in *Benzie County Comprehensive Plan*. January, 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 5 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:

BENZIE COUNTY SYSTEM ALTERNATIVE PHASE 1
EXPANDED CLEAN COMMUNITY AND DROP-OFF RECYCLING PROGRAM

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 are made available throughout the County at permanent sites open for longer periods of time each week. Arrangements are made for processing of

recyclables that allows complete or partial commingling of paper products (commingled fibers) and complete or partial commingling of containers (commingled containers), increasing the types of materials that can be recovered and further increasing overall convenience. Development of a county composting facility would allow municipalities and townships to bring seasonal yard waste to a central site. Direct haul of collected solid waste to regional landfills would remain as the standard practice although more options for local drop-off by residents would become available.

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:

Benzie 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 at a location within the county 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 widespread throughout the County and strongly promoted. Recycling drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. Waste reduction and recovery programs would be heavily promoted, especially to businesses and seasonal residents.

Drop-Off Residential Recycling:

The existing network of drop-off sites for recycling would be upgraded and made permanent, open at convenient hours most days of the week. Ideally, material would be collected in a commingled form to make use of the facilities easier, with this development coordinated with upgrading the processing facilities handling material generated by the program. The range of recyclable materials collected at each of the drop-off sites would become standardized between all sites. This would mean upgrading several of the existing fiber-only collection sites in the County.

Curbside Residential Recycling:

Subscription curbside recycling would be available for residents that were willing to make their own arrangements for the service with area haulers. This would be encouraged in established communities as well as areas with high concentration of housing.

Residential Yard Waste Composting:

Fall leaf collection would be provided in all villages/town/city areas. Backyard composting would be encouraged through distribution of backyard bins at discount rates. At least one and possibly more permanent drop-off options for yard waste would be provided throughout the County. In addition, the County would work to develop a permanent composting processing site.

Commercial Recycling:

Businesses would be encouraged to use the drop-off recycling network for smaller volumes of commingled paper and containers. Ideally, containers could be collected commingled, provided processing arrangements can be made. Arrangements would be made for larger volumes to be delivered to a site capable of handling compacted or loose loads of commercial recyclables. Existing corrugated collection routes would be expanded to include more businesses and office paper added where appropriate.

Material Transfer and Processing:

Arrangements would be made to provide access to a material recovery facility (MRF) or facilities to service all recycling collectors in the system. These arrangements would include guarantees that sufficient capacity was available to meet the County's needs over the long term and that the facility(s) would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC.

Disposal:

Existing landfills in the region would be used with direct haul by compacting collection vehicles being the primary method of transportation to the landfills. Drop-off facilities for solid waste would be available.

During Years 6 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:

BENZIE COUNTY SYSTEM ALTERNATIVE PHASE 2
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 are developed at one or more flagship sites with other drop-off sites provided on a permanent basis. Development of curbside programs for cities, villages and towns is pursued in order to increase convenience for large sector of population. Expanding the types of materials at both drop-offs and curbside is made possible through arrangements with a processing facility that is capable of accepting recyclables that are more commingled than current practice allows. Commercial recycling is also 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. The county would work with adjacent counties to coordinate on a ban on collection and disposal of certain materials currently being landfilled with an effective date targeted for a period 5 years away should specific diversion levels not be reached. This is coordinated with adjacent counties and all available transfer stations and regional disposal options.

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:

Benzie County Selected System Alternative Phase 2:
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 including collection of agricultural pesticides and herbicides -- all coordinated from a single permanent drop-off site located within the county. 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 widespread throughout the County. Recycling collection programs as well as drop-offs would add more materials to encourage overall participation in program by more citizens and businesses The County would coordinate with the counties that they export waste to in order to implement a ban on collection and disposal of certain materials (cardboard and newspaper as examples) that would be targeted for an effective date 3 to 5 years in the future.

Drop-Off Residential Recycling:

A permanent network of drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a commingled form to make use of the facilities easier. One "flagship" drop-off site would be larger than the rest, be staffed, have an educational component, and collect the largest number of different types of materials. Small, satellite drop-offs would also be added in high-use tourist areas and parks, including the National Lakeshore.

Curbside Residential Recycling:

Two stream commingled curbside recycling would be provided to all residents in a designated curbside service district that included more densely populated areas around Frankfurt, Beulah, Benzonia and Honor. Subscription service outside this district would be strongly encouraged.

Residential Yard Waste Composting:

Fall leaf collection would be provided in Frankfurt, Beulah, Benzonia and Honor. 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 throughout the County with at least one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Processing capabilities would be added at least one drop-off sites to prepare compost materials for a land application and/or low-technology composting operation.

Commercial Recycling:

A permanent site would be provided for businesses to drop-off a variety of recyclables including commingled containers and commingled paper. 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:

A material recovery facility (MRF) would be made available to all recycling collectors in the system. 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. 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 direct haul by compacting collection vehicles being the primary method of transportation to the landfills. A network of drop-off facilities for solid waste would be available including a "flagship" site that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. A waste transfer facility would be planned should direct haul options for landfilling no longer be available or be cost prohibitive.

AUTHORIZED MANAGEMENT COMPONENT

The Selected Alternative as described above is established by this Plan as the Plan's Enforceable Program defining the Benzie 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.

These key components of the organizational and management structure required to develop a suitable funding mechanism to implement the selected alternative include:

A: Creation of a County Department of Public Works as the designated implementation agency, with the role of Director, staff and supporting County administrative leadership assigned to existing resources if possible.

B: Creation of a 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 selected components of the Plan's Enforceable Program including responsibility for development and adoption of an annual strategic plan and budget.

C: Full utilization of the statutory authorities and powers of the County Department of Public Works as provided for by Michigan law, enabling support for implementation of the selected alternative and the Plan's Enforceable Program with appropriate legal, management and financial capabilities.

D: Full utilization of the County DPW Board's authority to create subcommittees to address specific issues in program implementation as needed.

E: The assignment, via existing intergovernmental contracts, of certain powers and responsibilities to the County DPW by local units of government in the County.

F: Drafting and adoption of a Benzie County Solid Waste Ordinance, that takes these powers and responsibilities and structures the basic framework of the Benzie County solid waste and recycling system.

G: Drafting and adoption of Administrative Rules for the Benzie County Solid Waste Ordinance that prescribes in greater detail the specific components of the system.

H: Administration of Hauler Licensing Agreements authorized by the Ordinance and Administrative Rules.

I: Administration of facility designation arrangements authorized by the Ordinance and Administrative Rules for solid waste.

J: Assignment of County DPW management/operational staff to oversee County programs.

K: Full utilization of the County DPW's contracting capability for operating programs (e.g. household hazardous waste services).

These organizational and management structures as just described are deemed to be consistent with the Plan and 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.

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) Designate Solid Waste Plan Implementation Agency	1999
2) Designate Implementation Oversight Committee	1999
3) Develop/Adopt Implementation Action Plan	1999
4) Draft/Adopt Intergovernmental Agreements/Ordinance/Rules/Regs	1999
5) Preliminary Program Specifications for Planned Programs	1999
6) Establish Budgets for Planned Programs	1999
7) Finalize Upgrade in Funding Structure and Enforcement Mechanisms	1999
8) Contract for Recycling Processing Capacity	1999/2000
9) Initiate all Outreach/Education Programs	1999/2000
10) Procure all Other System Improvements	1999/2000
11) Final Implementation of Funding Mechanism Upgrade	1999/2000
12) Continued Evaluation of Need for Transfer Facility	2000-2008
13) Develop Transfer Facility if Needed	2000-2008
14) Preliminary Program Specifications for Planned Ph II Programs	2002-2003
15) Establish Budgets for Planned Phase II Programs	2002-2003
16) Finalize Any Upgrades to Funding Structure and Mechanisms	2002-2003
17) Initiate all Phase II outreach/education programs	2003-2008
18) Procure all other Phase II system improvements	2003-2008
19) Data Tracking to Assess Program Performance	Annual/Ongoing
20) Update Implementation Action Plan	Annual/Ongoing

I-2 INTRODUCTION

To comply with Part 115 and its requirements, the Benzie 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 Benzie 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 I: To protect the public health and environment of the citizens of Benzie County.

Objectives:

1. To assure that the minimum criteria for the proper handling, processing, recycling , and disposal of solid waste are being met in Benzie County.

2. To assure that the ground and surface water of Benzie County is protected from solid waste contamination.

3. As the price of solid waste disposal increases, so will the amount of waste disposed of in the woods and in backyards. To actively search for and implement methods of economical waste disposal that will ensure preservation of the quality of the land, groundwater surface water in Benzie County.

4. To increase the availability and the budget for the disposal of Household Hazardous Waste and the education of the same.

Goal II: Conserve natural resources.

Objectives:

1. To increase the percentage of solid waste processed through alternative methods, such as; source reduction, source separation, recycling, composting.

2. Specifically, to increase from approximately eight (8%) percent to meet or exceed at least fifteen (15%) percent, the amount of solid waste being recycled within the county in the next five years and up to 25% by 2008

3. To encourage the private sector in providing landfilling alternatives.

4. Increase the availability of composting locations and promote backyard composting.

Goal III: To involve the public in solid waste management planning and implementation.

Objectives:

1. To promote public education in the schools, civic groups and among elected officials.

2. To encourage public participation in the decision making process.

3. Require municipalities and townships to participate in solid waste and recycling matters that produce full compliance with Act 641 and the Benzie County Solid Waste Management Plan.

Goal IV: Provide the most economical, efficient and equitable solid waste management system possible for the residents of Benzie County.

Objectives:

1 To implement a system that provides adequate waste disposal opportunity for all residents and visitors of Benzie County

2 To utilize cost effective methods for solid waste management in Benzie County

Goal V: Provide a plan which fulfills the solid waste disposal needs of the residents of Benzie County for the next 10 years.

Objectives:

1. To, within reason, pinpoint the life expectancy of *Glen's Landfill and Manistee County Landfill (Harland's)* that presently serve Benzie County residents and the agreements for using those landfills.

2. County implementation of the selected alternative will take advantage, where possible, of opportunities for collaboration and coordination with neighboring communities and counties in the region. This effort will focus on opportunities for disposal capacity, recycling and composting processing capacity, residential and commercial solid waste and recycling collection programs, household hazardous waste programs, enforcement, education, and outreach.

3 *Develop* the Plan Siting Mechanism and Minimum Standard Siting Criteria to establish and locate a transfer station and/or a landfill in Benzie County.

4 Establish a site in Benzie County for Composting.

Goal VI: To insure implementation of the County's Solid Waste Plan

Objectives:

1. Expand the size and scope of the current Solid Waste Management Authority Board (SWMAB) to insure implementation of this plan throughout the County.

2. Identify other organizations that will assist the SWMAB in the responsibility of implementing this plan.

Goal VII: Inform citizens and businesses about solid waste management issues and concerns and the wise use of natural resources.

Objectives:

1. Notification, at least annually by Townships, Villages and City, through their newsletters, of the availability of and opportunity for disposal of household hazardous waste, composting, construction debris, recycling programs and local clean-up days,

2. Educate seasonal population about recycling and trash removal.

3. Educate the public and business on solid waste reduction and how to make it work.

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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:

- 1995 County Business Patterns
- Northwest Michigan Council of Governments Population Study
- Data base and waste generation models from Resource Recycling Systems, Inc.
- Interviews with County and local government staff

Residential solid waste data was calculated by the consultant, Resource Recycling Systems, Inc. using the rate of 2.6 pounds of solid waste generated per person per day (urban and resort areas) and 2.0 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. 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
Lake Ann village	111	101	100
Balance of Almira township	644	691	741
Benzonia village	214	217	220
Beulah village	203	207	211
Balance of Benzonia twp	803	861	924
Blaine township	222	238	255
Thompsonville village (pt.)	64	69	75
Balance of Colfax township	155	166	178
Crystal lake township	338	328	318
Frankfort city	974	997	1019
Elberta village	247	263	280
Balance of Gilmore township	166	178	191
Honor village	154	166	179
Balance of Homestead twp	619	663	711
Inland township	574	616	661
Joyfield township	328	352	378
Lake township	266	285	306
Platte township	133	143	154
Thompsonville village (pt.)	158	172	188
Balance of Weldon township	80	86	92
Benzie County Total	**6,453**	**6,799**	**7,182**

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 Benzie 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)*	pds/ person/ day	Tons/ year (1995)
0700-0999	Agriculture, Forestry, Fishing	44	5	29
1000-1499	Mining	0	4	0
1500-1999	Construction	223	4	116
2000-3999	Manufacturing	543	19	1341
4000-4999	Transportation/Public Utilities	43	4.86	27
5000-5199	Wholesale trade	44	12	69
5200-5999	Retail trade	723	12	1128
6000-6999	Finance, Insurance, Real Estate	152	16	316
7000-7999	Services	1000	8	1040
99--	Unclassified establishments	44	6	34
		2,816	**11.2**	**4,100**
		Total	*Average*	*Total*

**based on 1995 County Business Patterns Data*

SPECIAL WASTE STREAMS

At least two large food processors generate process waste in Benzie County that is currently being land applied at area farms. This material is not anticipated to be in the landfill stream in the foreseeable future.

Sewage sludge is generated by a joint authority in Frankfort and Alberta. It is currently being land applied.

Table II-3 Special Waste Streams

Source	Material	Tons/year generated	Tons needing disposal
Frankfort/Alberta Wastewater Authority	Sewage sludge	n.a.	0

MAJOR WASTE GENERATORS

Benzie County continues to experience growth in the business sector, particularly retail and resort driven in part by growth from the Traverse City area. Overall, the county does not anticipate major problems associated with managing the commercial and industrial solid waste generated within its borders. Collection services for both solid waste and recyclable materials are generally available to residents and businesses and landfill disposal options available in the adjacent counties (Leelanau and Manistee). Table II-4 provides a list of major business and industrial waste generators in the County.

Table II-4 Major Waste Generators in Benzie County

Generator Name	Location	Description
Graceland	Gilmore Twp	Fruit processor
Smeltzer		Fruit processor
Frankfort Manufacturing	Frankfort	Machining
Inco		Auto parts
Pheol, Inc.		Manufacturer
Mitchell Corp.	Benzonia	Vinyl seat covers
Crystal Mountain	Thompsonville	Ski/golf resort
U.S. Park Service	Empire	Park service

TOTAL WASTE GENERATION

Waste generation is shown in Tables II-5 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: Total Waste Generated (Tons per year)

Sector	1998 Tons Generated	2003 Tons Generated	2008 Tons Generated
Residential	6,453	6,799	7,182
Commercial	2,855	3,016	3,190
Industrial	1,388	1,467	1,551
TOTAL ANNUAL TONS	**10,697**	**11,282**	**11,922**

TOTAL WASTE DISPOSAL

Total waste generation for 1998 was projected and compared to actual 1997 landfill disposal data for Benzie 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-6 below.

Table II-6: Total Disposal (tons per year)

Sector	1998 Tons Disposed	2003 Tons Disposed	2008 Tons Disposed
Residential	5,438	5,469	5,282
Commercial/Industrial	3,869	3,833	3,640
TOTAL ANNUAL TONS	**9,307**	**9,282**	**8,922**

II-2 SOLID WASTE DISPOSAL AREAS

The following disposal facilities are currently being used by Benzie County: Facility descriptions follow.

- Waste Management, Inc.'s Glen's Sanitary Landfill - Leelanau County
- Waste Management, Inc.'s Cedar Ridge Landfill - Charlevoix County
- Waste Management, Inc.'s Ken's Type III Landfill - Grand Traverse County
- Allied Disposal's Manistee County Landfill (formerly Harland's)

II-3 SOLID WASTE FACILITY DESCRIPTIONS

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:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	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:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	megawatts

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: **Type III Landfill**

Facility Name: **Ken's Landfill**

County: Grand Traverse Location: Town T27N Range R11W Section(s) NE1/4 of 7

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		residential
	closed		commercial
x	licensed		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:	16.8	acres
Total area sited for use:	13.5	acres
Total area permitted:	13.5	acres
Operating:	6.0	acres
Not excavated:	1.0	acres
Current capacity:	150,000	cubic yards
Estimated lifetime:	2.0	years
Estimated days open per year:	240	days
Estimated yearly disposal volume:	70,000	cubic yards

(if applicable)
Annual energy production:

Landfill gas recovery projects:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	megawatts

DATA BASE

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 Disposal

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	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:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	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.

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

Solid Waste Collection Services

Service Provider	Service Type	Service Area	Disposal Facility
Waste Management, Inc.	Residential, commercial	Village of Thompsonville	Glen's Landfill (WMI)
Cedar Disposal	Residential, commercial	Eastern 1/3 of county	Glen's Landfill (WMI)
Shoreline Disposal (Allied)	Residential, commercial	Southern part of county and City of Frankfort (under contract); Village of Elberta (under contract), Village of Honor (under contract), Village of Beulah (under contract)	Manistee County Landfill (Allied)
Dave's Disposal	Residential, commercial	Northeastern part of county	Glen's Landfill (WMI)
Village of Benzonia municipal crew	Residential	Village of Benzonia	Glen's Landfill (WMI)
Villages of Thompson-ville municipal crews	Residential	Village of Thompsonville	Manistee County Landfill (Allied)
Northern Disposal	Commercial, C&D	Southeast Part of County	Glen's Landfill (WMI) Manistee County Landfill (Allied)

Recycling Collection Services

Service Provider	Service Type	Service Area	Recycling Facility
Waste Management, Inc.	Drop-off collection (residential and commercial corrugated)	3 sites: Beulah, Honor, Lake Ann	Waste Management, Inc. in Traverse City
Shoreline Disposal (Allied)	Subscription curbside; drop-off	Curbside in Frankfort and individual customers	Manistee
Lakeshore Enterprises	Drop-off collection (fiber only)	Benzie Central High School; Frankfort High School	Lakeshore Enterprises
Cedar Disposal	Commercial corrugated	Businesses in northern part of county	

Recycling activities in Benzie County have seen a steady increase with strong participation in drop-off recycling programs by both citizens and businesses. At present, the County funds three drop-off sites

with funds raised from P.A. 138 (surcharge of $13.50 per household per year). Several municipalities and townships have elected not to participate in P.A. 138 funding, including the City of Frankfort, the Village of Elberta, Gilmore Township, Crystal Lake Township, the Village of Thompsonville, Weldon Township and Colfax Township. The P.A. 138-funded drop sites in Beulah, Honor and Lake Ann sites are presently open only on a limited basis, but accept glass, cans, #2 HDPE, newspaper, corrugated cardboard and office paper. Additional recycling drop-offs for mixed fiber only are provided at Benzie Central High School and Frankfort High School, where student volunteers help supervise collection and receive funds from the sale of the paper. Local businesses have donated trailers and trucking to service these sites. Fiber is taken to Lakeshore Enterprises in Manistee County for processing and sale to PCA's Filer City Mill (formerly Tenneco). One additional recycling opportunity is in the Copemish/Thompsonville area, and is operated by those municipalities jointly with two other townships located in Manistee County.

Some businesses in the county are served by Shoreline Disposal's corrugated collection routes. Other businesses use OCC drop boxes located at area recycling drop-off centers. One other hauler, Cedar Disposal, also provides some collection of corrugated from businesses.

Yard Waste Collection Services

Service Provider	Service Type	Service Area	Compost Facility
Shoreline Disposal (Allied)	Leaf pickup (bagged)	Frankfort, Crystal Lake, Beulah; others by subscription	City of Manistee

II-5 EVALUATION OF DEFICIENCIES AND PROBLEMS

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

Overall, Benzie County benefits from the availability of comprehensive solid waste services, despite the fact that it does not host a landfill, since it is located between two counties that do (Waste Management Inc's Glen's Landfill in Leelanau County and Allied Disposal's Manistee County Landfill in Manistee County). Three haulers (Allied's Shoreline Disposal, Cedar Disposal and Waste Management, Inc.) service the majority of customers in the County. One problem, however, is that seasonal or weekend visitors do not have a solid waste drop-off option in the county. They can purchase special bags and leave them at the curb, but this can be a problem if the bags sit out for more than a day awaiting pickup.

An additional deficiency in the system is the continued lack of total participation by all municipalities in P.A. 138 funding which is used in the County to support recycling and household hazardous waste collection programs.

Lack of yard waste management options is a concern in villages. Frankfurt has dropped their leaf collection program (concerns about contaminants). Shoreline Disposal does offer separate yard waste collection, but residents must subscribe specifically for these services.

Another important deficiency in the solid waste management program is a lack of consistency between the various drop-off recycling options, as well as the very limited hours of operation. It is also certain that some residents are using recycling drop-offs who are from communities that have opted out of the funding mechanism that is currently in place.

II-6 DEMOGRAPHICS

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

Population

The table below shows the permanent population of Benzie County projected through the planning period. Additional adjustments for seasonal population change were made using a multiplier for each jurisdiction ranging from 1.1 (January) to 1.36 (August). Adjusted population totals were multiplied by a per capita generation rate to determine estimated residential waste generation.

Municipality	1990 population	1998 projected	2003 projected	2008 projected
Lake Ann village	219	231	230	229
Balance of Almira township	1230	1468	1575	1689
Benzonia village	449	489	495	502
Beulah village	421	463	472	481
Balance of Benzonia township	1535	1831	1964	2107
Blaine township	424	506	543	582
Thompsonville Village (pt.)	120	146	158	172
Balance of Colfax township	295	353	379	407
Crystal lake township	759	771	747	725
Frankfort city	1546	1709	1748	1788
Elberta village	478	563	599	638
Balance of Gilmore township	316	378	406	437
Honor village	292	351	378	408
Balance of Homestead township	1185	1411	1512	1620
Inland township	1096	1309	1404	1507
Joyfield township	626	748	803	862
Lake township	508	607	651	698
Platte township	253	303	326	350
Thompsonville Village (pt.)	296	361	393	428
Balance of Weldon township	152	182	196	210
BENZIE COUNTY TOTALS	**12,200**	**14,180**	**14,980**	**15,840**

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.

With the shore of northern Lake Michigan bordering on the west and the fast growing Traverse City area to the northeast, Benzie County benefits in modern times from a bustling regional resort and tourist economy. Not since the lumbering boom earlier in this century has the County's population reached its current levels.

One of ten counties in the Northwest Michigan Council of Governments (NWMCOG), Benzie County's 1995 population of 13,660 represented the smallest in the NWMCOG group. From 1990 to 1995, however, Benzie County had one of the faster growth rates in population with an increase of 12%, (with only two other counties in northern Michigan registering higher growth rates).

Historically the population has settled in the inland lake and Great Lake shoreline communities in the County. Recent trends, driven by in-migration of residents to northern communities has resulted in additional population density in-land. Overall the population center of the County is gradually shifting towards the Traverse City area.

Benzie County has a large seasonal population, doubling during three summer months, and increasing from 13% to 27% in other months due to vacationers. The County has numerous multi-season recreational opportunities and amenities.

Benzie County is comprised of over 222,528 acres, the majority of which is forest, water and other open space. Cropland, orchards, and other agricultural land also accounts for a large percentage of the county at almost 9 percent of the total acreage compared to only 7 percent of the county comprised of residential, commercial and industrial use.

Benzie County	**Land use by category**					
	Cropland, Orchards, and Other Ag.	**Forest, Water, and Other Open Space**	**Industry, Transp. & Utilities**	**Commercial and Institutions**	**Residential**	**Wells and Mining**
Percentage of total	8.88%	83.64%	0.24%	0.44%	6.65%	0.15%
Acres	19,760	186,139	546	987	14,766	331

Source: Land Use Acreage by Category Benzie County, Benzie County Planning Department

While the majority of land base in the county is rural, farming, fishing and forestry only account for 2 % of the employment in the county. The remaining developed acreage contains 98% of the economic base.

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 Benzie 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

System Alternatives "A" & "B" 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 Alternatives "E" & "F" were 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 ("C" and "D") were further developed as Benzie County System Alternative 1 and Benzie County System Alternative 2 as described below, for further consideration in the strategic planning process.

BENZIE COUNTY SYSTEM ALTERNATIVE 1:

Expanded Clean Community & Drop-Off Recycling Program is adapted from System Option C. 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 are made available throughout the County at permanent sites open for longer periods of time each week. Arrangements are made for processing of recyclables that allows complete or partial commingling of paper products (commingled fibers) and complete or partial commingling of containers (commingled containers), increasing the types of materials that can be recovered and further increasing overall convenience. Municipalities are encouraged to expand yard waste collection services and the County begins development of a yard waste composting facility. Direct haul of collected solid waste to regional landfills would remain as the standard practice although more options for local drop-off by residents would become available.

BENZIE COUNTY SYSTEM ALTERNATIVE 2:

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 one or more flagship sites increase options for recovering more materials. Curbside programs for cities, villages and towns are developed to increase convenience for large sectors of the population. Arrangements for commingled recycling processing capabilities as well as commercial recycling services are further developed to increase diversion. C&D recovery services are more closely coordinated with area service providers. Organics management options exist throughout year with addition of drop-offs for yard waste, along with development of a county compost processing facility. Direct haul of collected solid waste to regional landfills would remain as the standard practice. A network of drop-off facilities for solid waste would be available including one or more flagship sites that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. A waste transfer facility would be planned should direct haul options for landfilling no longer be available or be cost prohibitive. The County collaborates with nearby counties on a ban on certain materials being landfilled targeted for 5 years away and coordinated between any available transfer stations as well as any of the regional disposal options.

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.

The DPA and SWPC concluded that implementing "Benzie County System Alternative 1" in a year 1 through 5 Phase 1 leading to a year 6 through 10 Phase 2 development of "Benzie 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.

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III-1 THE SELECTED SOLID WASTE MANAGEMENT SYSTEM

The Selected Solid Waste Management System (Selected System) is a comprehensive approach to managing Benzie 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 Benzie 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 I: During Years 1 through 5 of the Planning Period, the County will implement System Alternative 1 as follows:

BENZIE COUNTY SYSTEM ALTERNATIVE PHASE 1
EXPANDED CLEAN COMMUNITY AND DROP-OFF RECYCLING PROGRAM

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 are made available throughout the County at permanent sites open for longer periods of time each week. Arrangements are made for processing of recyclables that allows complete or partial commingling of paper products (commingled fibers) and complete or partial commingling of containers (commingled containers), increasing the types of materials that can be recovered and further increasing overall convenience. Development of a county composting facility would allow municipalities and townships to bring seasonal yard waste to a central site. Direct haul of collected solid waste to regional landfills would remain as the standard practice although more options for local drop-off by residents would become available.

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:

Benzie 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 at a location within the county 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 widespread throughout the County and strongly promoted. Recycling drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. Waste reduction and recovery programs would be heavily promoted, especially to businesses and seasonal residents.

Drop-Off Residential Recycling:

The existing network of drop-off sites for recycling would be upgraded and made permanent, open at convenient hours most days of the week. Ideally, material would be collected in a commingled form to make use of the facilities easier, with this development coordinated with upgrading the processing facilities handling material generated by the program. The range of recyclable materials collected at each of the drop-off sites would become standardized between all sites. This would mean upgrading several of the existing fiber-only collection sites in the County.

Curbside Residential Recycling:

Subscription curbside recycling would be available for residents that were willing to make their own arrangements for the service with area haulers. This would be encouraged in established communities as well as areas with high concentration of housing

Residential Yard Waste Composting:

Fall leaf collection would be provided in all villages/town/city areas. Backyard composting would be encouraged through distribution of backyard bins at discount rates. At least one and possibly more permanent drop-off options for yard waste would be provided throughout the County. In addition, the County would work to develop a permanent composting processing site.

Commercial Recycling:

Businesses would be encouraged to use the drop-off recycling network for smaller volumes of commingled paper and containers. Ideally, containers could be collected commingled, provided processing arrangements can be made. Arrangements would be made for larger volumes to be delivered to a site capable of handling compacted or loose loads of commercial recyclables. Existing corrugated collection routes would be expanded to include more businesses and office paper added where appropriate.

Material Transfer and Processing:

Arrangements would be made to provide access to a material recovery facility (MRF) or facilities to service all recycling collectors in the system. These arrangements would include guarantees that sufficient capacity was available to meet the County's needs over the long term and that the facility(s)

would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC.

Disposal:

Existing landfills in the region would be used with direct haul by compacting collection vehicles as a primary method of transportation to landfills. Drop-off facilities for solid waste would be available.

During Years 6 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:

BENZIE COUNTY SYSTEM ALTERNATIVE PHASE 2
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 are developed at one or more flagship sites with other drop-off sites provided on a permanent basis. Development of curbside programs for cities, villages and towns is pursued in order to increase convenience for large sector of population. Expanding the types of materials at both drop-offs and curbside is made possible through arrangements with a processing facility that is capable of accepting recyclables that are more commingled than current practice allows. Commercial recycling is also 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. The county would work with adjacent counties to coordinate on a ban on collection and disposal of certain materials currently being landfilled with an effective date targeted for a period 5 years away should specific diversion levels not be reached. This is coordinated with adjacent counties and all available transfer stations and regional disposal options.

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:

Benzie County Selected System Alternative Phase 2:
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 including collection of agricultural pesticides and herbicides -- all coordinated from a single permanent drop-off site located within the county. 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 widespread throughout the County. Recycling collection programs as well as drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. The

SELECTED SYSTEM

County would coordinate with the counties that they export waste to in order to implement a ban on collection and disposal of certain materials (cardboard and newspaper as examples) that would be targeted for an effective date 3 to 5 years in the future.

Drop-Off Residential Recycling:

A permanent network of drop-off sites for recycling would be located in the County, open at convenient hours most days of the week. Material would be collected in a commingled form to make use of the facilities easier. One "flagship" drop-off site would be larger than the rest, be staffed, have an educational component, and collect the largest number of different types of materials. Small, satellite drop-offs would also be added in high-use tourist areas and parks, including the National Lakeshore

Curbside Residential Recycling:

Two stream commingled curbside recycling would be provided to all residents in a designated curbside service district that included more densely populated areas around Frankfurt, Beulah, Benzonia and Honor. Subscription service outside this district would be strongly encouraged.

Residential Yard Waste Composting:

Fall leaf collection would be provided in Frankfurt, Beulah, Benzonia and Honor. 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 throughout the County with at least one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Processing capabilities would be added at least one drop-off sites to prepare compost materials for a land application and/or low-technology composting operation.

Commercial Recycling:

A permanent site would be provided for businesses to drop-off a variety of recyclables including commingled containers and commingled paper. 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:

A material recovery facility (MRF) would be made available to all recycling collectors in the system. 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. 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 direct haul by compacting collection vehicles being the primary method of transportation to the landfills. A network of drop-off facilities for solid waste would be available including a "flagship" site that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. A waste transfer facility would be planned should direct haul options for landfilling no longer be available or be cost prohibitive.

SELECTED SYSTEM

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

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

III-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]
Benzie	Leelanau	NA	NA	NA	HHW and recycling in place
Benzie	Manistee	NA	NA	NA	HHW and recycling in place

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

_____

[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]
Benzie	Leelanau	County Selected Site	*	*	*
Benzie	Manistee	County Selected Site	*	*	*
Benzie	Grand Traverse	County Selected Site	*	*	*
Benzie	Wexford	County Selected Site	*	*	*
Benzie	Missaukee	County Selected Site	*	*	*
Benzie	Kalkaska	County Selected Site	*	*	*
Benzie	Ludington	County Selected Site	*	*	*
Benzie	Antrim	County Selected Site	*	*	*

x_____Conditions for those authorizations are listed on an attached page

_____

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 Benzie 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.

III-3 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]
Crawford	Benzie	CES Waters/WMI	NA	NA	P *
Leelanau	Benzie	Glen's Landfill/WMI	NA	NA	P * & **
Manistee	Benzie	Manistee Lf (Allied)	NA	NA	P *
Grand Traverse	Benzie	NA	NA	NA	P * & **
Chippewa	Benzie	NA	NA	NA	P *
Presque Isle	Benzie	NA	NA	NA	P *
Charlevoix	Benzie	NA	NA	NA	P *
Montmorency	Benzie	NA	NA	NA	P *
Wexford	Benzie	NA	NA	NA	P *
Bay	Benzie	NA	NA	NA	P *
Clare	Benzie	NA	NA	NA	P *
Wayne	Benzie	NA	NA	NA	P *
Monroe	Benzie	NA	NA	NA	P *
Washtenaw	Benzie	NA	NA	NA	P *
Calhoun	Benzie	NA	NA	NA	P *
Ottawa	Benzie	NA	NA	NA	P *
Kent	Benzie	NA	NA	NA	P *
Midland	Benzie	NA	NA	NA	P *
Shiawasee	Benzie	NA	NA	NA	P *
Genesee	Benzie	NA	NA	NA	P *
Saginaw	Benzie	NA	NA	NA	P *

__X__ Condition for those authorizations are listed on an attached page.

[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:

If a Solid Waste Transfer Station Disposal area is developed, as described in this Plan, then 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 Benzie County Solid Waste Management System consistent with the Plan's Enforceable Program. 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 any solid waste facilities provided for in the Selected Alternative 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.

** Condition for Current Exports:

For export to these Counties to be consistent with import restrictions imposed by those counties then recycling, composting and household hazardous waste programs must be in place in Benzie County and available to all waste generators in Benzie County as specified in the Reciprocal Agreement shown in the Attachments section.

No waste may be exported unless the receiving county authorizes imports from Benzie County in its Plan.

Table 2-B (continued): 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]
Jackson	Benzie	NA	NA	NA	P *
Washtenaw	Benzie	NA	NA	NA	P *
Wayne	Benzie	NA	NA	NA	P *
Berrien	Benzie	NA	NA	NA	P *
St. Joseph	Benzie	NA	NA	NA	P *
Lenawee	Benzie	NA	NA	NA	P *
Monroe	Benzie	NA	NA	NA	P *
Midland	Benzie	NA	NA	NA	P *
Montcalm	Benzie	NA	NA	NA	P*
Menominee	Benzie	NA	NA	NA	P*
Delta	Benzie	NA	NA	NA	P*
Ontonagon	Benzie	NA	NA	NA	P*
Emmet	Benzie	NA	NA	NA	P*

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

* Condition for Future Exports:

If a Solid Waste Transfer Station Disposal area is developed, as described in this Plan, then 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 Benzie County Solid Waste Management System, consistent with the Plan's Enforceable Program. 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 any solid waste facilities provided for in the Selected Alternative 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.

** Condition for Future Exports:

For export to these Counties to be consistent with import restrictions imposed by those counties then recycling, composting and household hazardous waste programs must be in place in Benzie County and available to all waste generators in Benzie County as specified in the Reciprocal Agreement shown in the Attachments section.

No waste may be exported unless the receiving county authorizes imports from Benzie County in its Plan.

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]
Crawford	Benzie	NA	NA	NA	P *
Leelanau	Benzie	NA	NA	NA	P *
Manistee	Benzie	NA	NA	NA	P *
Mecosta	Benzie	NA	NA	NA	P *
Chippewa	Benzie	NA	NA	NA	P *
Presque Isle	Benzie	NA	NA	NA	P *
Charlevoix	Benzie	NA	NA	NA	P *
Montmorency	Benzie	NA	NA	NA	P *
Wexford	Benzie	NA	NA	NA	P *
Bay	Benzie	NA	NA	NA	P *
Clare	Benzie	NA	NA	NA	P *
Osceola	Benzie	NA	NA	NA	P *
Muskegon	Benzie	NA	NA	NA	P *
Saginaw	Benzie	NA	NA	NA	P *
Sanilac	Benzie	NA	NA	NA	P *
Ottawa	Benzie	NA	NA	NA	P *
Kent	Benzie	NA	NA	NA	P *
Clinton	Benzie	NA	NA	NA	P *
Shiawasee	Benzie	NA	NA	NA	P *
Genesee	Benzie	NA	NA	NA	P *
Kalamazoo	Benzie	NA	NA	NA	P *
Barry	Benzie	NA	NA	NA	P *
Ingham	Benzie	NA	NA	NA	P *
Oakland	Benzie	NA	NA	NA	P *
Macomb	Benzie	NA	NA	NA	P *
Calhoun	Benzie	NA	NA	NA	P *

__X__Conditions for those authorizations are listed on an attached page

[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

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 Benzie County for the next five years and, if possible, the next ten years. Pages III-10 through III-14 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 Benzie 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 Benzie County solid waste management system.

Type II Landfill:

Glen's Landfill (WMI)

Cedar Ridge Landfill (WMI)

Manistee County Landfill (Allied)

Wexford County Landfill

Type III Landfill:

Ken's Type III Landfill (WMI)

Incinerator:

Waste-to-Energy Incinerator:

Type A Transfer Facility:

Type B Transfer Facility:

Processing Plant:

Waste Piles:

Other:

Facility descriptions are provided in the following pages. Letters from or agreements with the listed disposal areas owners/operators stating their facility capacity and willingness to accept Benzie County's solid waste are in the Attachments Section.

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: __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:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	megawatts

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: __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:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	megawatts

FACILITY DESCRIPTIONS

Facility Type: **Type II Landfill**

Facility Name: **Manistee County Landfill (Formerly Harland's Landfill)**

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 Disposal

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:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	megawatts

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: __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	bank cubic yards
Estimated lifetime:	12-14 (with proposed vertical expansion)	years
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

FACILITY DESCRIPTIONS

Facility Type: **Type III Landfill**

Facility Name: **Ken's Landfill**

County: Grand Traverse Location: Town T27N Range R11W Section(s) NE1/4 of 7

Map identifying location included in Attachment Section: __Yes ____No

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

_____Public x_____Private Owner: Waste Management, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
x	open		residential
	closed		commercial
x	licensed		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:	16.8	acres
Total area sited for use:	13.5	acres
Total area permitted:	13.5	acres
Operating:	6.0	acres
Not excavated:	1.0	acres
Current capacity:	150,000	bank cubic yards
Estimated lifetime:	2.0	years
Estimated days open per year:	240	days
Estimated yearly disposal volume:	70,000	gate cubic yards

(if applicable)
Annual energy production:

Landfill gas recovery projects:	N.A.	megawatts
Waste-to-energy incinerators:	N.A.	megawatts

III-5 SOLID WASTE COLLECTION SERVICES

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 I of the Plan's Enforceable Program 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. Adopt a "____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.

Existing landfills in the region would be used with direct haul by compacting collection vehicles being the primary method of transportation to the landfills. Drop-off facilities for solid waste would be available.

In Phase II of the Plan's Enforceable Program the comprehensive solid waste collection services would continue to be available to all households and businesses in the County and use of these services strongly encouraged. 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. 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 further developed with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests. A ban on collection and disposal of selected types of recyclable materials would be considered, in cooperation w/adjacent counties and transfer/disposal facilities serving the county. An effective date for the ban would be targeted for a period 3 to 5 years in the future with the ban possible triggered by failure to reach specified diversion levels.

Compacting collection vehicles would continue to have to direct haul to the area landfills. A network of drop-off facilities for solid waste would be available including a "flagship" site that took other types of waste (bulky, C&D, etc.) with this system preferably located at same sites as recycling drop-offs. A waste transfer facility would be planned should direct haul options for landfilling no longer be available or be cost prohibitive.

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'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

Effort Description	Est. Diversion Tons/Yr		
	Current	5th yr	10th yr
Recycling Drop-off	665	820	800
Curbside recycling	50	30	450
Commercial recycling	375	850	1,500
Yard waste collection	300	500	650
Household Hazardous waste collection		2	5
TOTALS	**1,390**	**2,200**	**3,400**

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

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 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 Should these systems be implemented it will cause a reduction in 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 Benzie 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 (15+ percent for 2003 and 25+ 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. Tables that follow this subsection 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 that follow this subsection 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:

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 and heavily promoted. Recycling drop-offs would add more materials to encourage overall participation in program by more citizens and businesses. An ambitious outreach and education program would promote all aspects of the expanded system and improvements. In the second five years of program implementation, the County would coordinate with the counties that they export waste to in order to implement a ban on landfilling of certain materials (cardboard and newspaper as examples) that would be targeted for an effective date 3 to 5 years in the future.

Drop-Off Residential Recycling:

The existing network of drop-off sites for recycling would be upgraded and made permanent, open at convenient hours most days of the week. During the second five years, a "flagship" site would be added, larger than the rest, be staffed, have an educational component, and collect the largest number of different types of materials. Small, satellite drop-offs would also be added in high-use tourist areas and parks, including the National Lakeshore. Ideally, material would be collected in a commingled form to make use of the facilities easier; however, available processing options may limit commingling. The range of recyclable materials collected at each of the drop-off sites would

become standardized between all sites. This would mean upgrading several of the existing fiber-only collection sites in the County.

Curbside Residential Recycling:

Subscription curbside recycling would be available for residents that were willing to make their own arrangements for the service with area haulers. This would be encouraged in established communities as well as areas with high concentration of housing. In the second five years of system implementation, two-stream commingled curbside recycling would be provided to all residents in a designated curbside service district that included more densely populated areas around Frankfurt, Beulah, Benzonia and Honor. Subscription service outside this district would be strongly encouraged.

Commercial Recycling:

Businesses would be encouraged to use the drop-off recycling network for smaller volumes of commingled paper and containers. Ideally, containers could be collected commingled, provided processing arrangements can be made. Arrangements would be made for larger volumes to be delivered to a site capable of handling compacted or loose loads of commercial recyclables. Existing corrugated collection routes would be expanded to include more businesses and office paper added where appropriate. During the second five years of implementation, a permanent site would be provided for businesses to drop-off a variety of recyclables including commingled containers and commingled paper. 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:

Arrangements would be made to provide access to a material recovery facility (MRF) to service all recycling collectors in the system. These arrangements would include guarantees that sufficient capacity was available to meet the County's needs over the long term and that the facility would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC.

Lakeshore Enterprises in Manistee County remains an excellent processing option for commingled fiber, although they lack the ability to handle containers. Shoreline Disposal or Waste Management are the most likely processing facilities.

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

Residential Yard Waste Composting:

Fall leaf collection would be provided in all villages/town/city areas. Backyard composting would be encouraged through distribution of backyard bins at discount rates. At least one and possibly more permanent drop-off options for yard waste would be provided throughout the County. During Phase I of the Selected Alternative, the County would begin development of a compost processing site for use by local municipalities. Existing equipment such as front loaders would be used to turn windrows, while additional processing equipment such as screeners would be leased or borrowed as needed.

In Phase II of the Selected Alternative, fall leaf collection would be provided in Frankfurt, Beulah, Lake Ann, Benzonia and Honor. 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 throughout the County with at least one "flagship" site taking all types of yard waste and providing finished compost for distribution to residents. Processing capabilities would be added at least one drop-off sites to prepare compost materials for a land application and/or low-technology composting operation.

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

Clean Community Programs:

Household hazardous waste collection services would be provided and expanded to include collection of small quantities of agricultural pesticides and herbicides. A mobile service or other temporary site set-up provided by a licensed hauler would be set up at least four times a year.

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
3-station drop-off	Beulah, Lake Ann, Honor (open to communities participating in PA 138)	Private	d	b	A, B, C, D, E,	5	5	1, 4
Fiber-only drop-off (Lakeshore Enterprises)	County-wide; locations at Benzonia and Frankfurt High Schools	Private	d	b	B, C	6	6	1, 4
1-station drop-off	Copemish and Thompsonville	Public	d	b	A, B, C, D, E,	3	3	1, 4
Subscription curbside	Limited	Private	c	w	A, B, C, D, E, G,	5	5	1, 4

[1] Program Management responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=Department 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-2

COMPOSTING: 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
Subscription Leaf Collection	County	Private	c	Fa	L	5	5, 3	1, 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=Department 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; 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: Based on Current Programs

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
County Household Hazardous Waste Program	County-wide	Public	d	4 times per year, by appt. in Grand Traverse County	AN, A, P, PS, PH, OT	1	6	1

[1] Program Management responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=Department 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 HealProducts; U=Used Oil; OT=Other Materials and identified

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
6-station drop-off	County-wide	Public	d	d	A, B, C, D, E, G, L	1, 6	6	1
Subscription curbside (years 1-5)	Limited	Private	c	w	A, B, C, D, E, G, L	5	5	5
Contract curbside (years 1-5)	Urban areas	Private	c	w	A, B, C, D, E, G, L	Various municiple	Private, Various municiple	1
Expanded commercial collection	Business districts	Public/ Private	o	w, bi, m	B, C, D, F1, H, L	1, 5	5	1

[1] Program Management responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=Department 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
Fall leaf pickup	Urban areas	Public/ Private	c	Fa	L, BR	Private, various municipal	Private, various municipal	1
Yard waste drop-off	County-wide	Public	d	d	L, Br, W	Private, various municipal	Private, various municipal	1
Yard waste processing	County-wide	Public	o	n.a.	L, G, Br, W	1	5, 6	1

[1] Program Management responsibilities: 1=Designated Planning Agency; 2= County Board of Commissioners; 3=Department 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-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
County Household Hazardous Waste Collection Program	County-wide	Public	d	6 times per year, by appt.	AN, A, P, PS, PH, OT	1	1, 5	1
Battery collection	County-wide	Public	d	d	B2			

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=Department 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 HeaProducts; U=Used Oil; OT=Other Materials and identified

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES:

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

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

This Department will be created and be assigned management responsibilities for promotion and education for all resource recovery programs; operation of the household hazardous waste collection program; oversight and operation of any 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 will also be the responsible agency for administering the solid waste plan.

Benzie County Public Works Board:

This board will have overall fiscal responsibility for management of all solid waste and recycling programs as well as oversight for any new construction or expansion required for programs.

Benzie County Solid Waste Advisory Committee

Oversight of P.A. 138 implementation and associated budget matters, and advising the County Board of Commissioners as deemed necessary on development of the County Solid Waste Management System, working with or becoming part of the Board of Public Works structure described above as determined by the County Board of Commissioners.

Various Service Providers including Waste Management, Inc., Allied Disposal (also known as Shoreline Disposal) and Cedar Disposal:

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 Benzie 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 any solid waste transfer station when and if it is developed; and transfer of solid waste either directly to landfills or from the transfer facility to landfills.

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.

Benzie County Recyclers

Organization of volunteers and transportation for fiber-only drop-off sites; provision of promotional information for drop-off sites.

Lakeshore Industries

Recyclables processing and servicing of recycling collection sites.

SELECTED SYSTEM

Local Municipalities

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

Soil Conservation District

Promotion and coordination of Clean Sweep Agricultural Waste program.

Environmental Groups:

MSU Cooperative Extension Service will assist in providing 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:*		
	Current	5th Yr	10th Yr		Current	5th Yr	10th Yr
A. TOTAL PLASTICS:	22	34	55	G. GRASS AND LEAVES:	300	500	650
B. NEWSPAPER:	218	336	550	H. WOOD WASTE:			
C. CARDBOARD	469	722	1,183	I. CONSTR. & DEMO.:			500
D. OTHER PAPER	207	285	468	J. FOOD PROCESSING			
E. GLASS	87	134	220	K. TIRES:			
F. OTHER MATERIALS:				L. TOTAL METALS:	33	50	83

*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 %	

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

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

Program Topic	Delivery Medium	Targeted Audience	Program Provider
Recycling/general solid waste education	Display at public events	General public	Designated Plan Implementation Agency (DPA)
Recycling, Composting	Radio ads	General public	DPA, recycling contractor, Benzie County Recyclers
Recycling, Composting	Newspaper ads	General public	DPA, recycling contractor
General solid waste education	School presentations	School-age children	DPA
General solid waste education	Teacher Training/WISE curriculum	Teachers	DPA
Resource conservation	Presentations/workshops	Businesses/ public	DPA
All programs	Internet Web Based Information	General public	DPA
All programs	Brochures, flyers	General public; businesses	DPA, Cooperative Extension, area Environmental Groups

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) Designate Solid Waste Plan Implementation Agency	1999
2) Designate Implementation Oversight Committee	1999
3) Develop/Adopt Implementation Action Plan	1999
4) Draft/Adopt Intergovernmental Agreements/Ordinance/Rules/Regs	1999
5) Preliminary Program Specifications for Planned Programs	1999
6) Establish Budgets for Planned Programs	1999
7) Finalize Upgrade in Funding Structure and Enforcement Mechanisms	1999
8) Contract for Recycling Processing Capacity	1999/2000
9) Initiate all Outreach/Education Programs	1999/2000
10) Procure all Other System Improvements	1999/2000
11) Final Implementation of Funding Mechanism Upgrade	1999/2000
12) Continued Evaluation of Need for Transfer Facility	2000-2008
13) Develop Transfer Facility if Needed	2000-2008
14) Preliminary Program Specifications for Planned Ph II Programs	2002-2003
15) Establish Budgets for Planned Phase II Programs	2002-2003
16) Finalize Any Upgrades to Funding Structure and Mechanisms	2002-2003
17) Initiate all Phase II outreach/education programs	2003-2008
18) Procure all other Phase II system improvements	2003-2008
19) Data Tracking to Assess Program Performance	Annual/Ongoing
20) 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.

If circumstances require that the County has to demonstrate 66 months of disposal capacity, then the County will prepare documentation similar in content to the chart in Section III-13, Capacity Certifications, covering all available Disposal Area capacity being used by the County and available within reasonable hauling distance for use by the County as provided for in this Plan. The determination of reasonable hauling distance will assume availability of the transfer station provided for in the Plan's Enforceable Program. Available Disposal Area capacity shall be based on information on those Disposal Area's based on the DEQ's *Annual Report of Disposal Area Capacity*.

If that information is insufficient to demonstrate 66 months of Disposal Area capacity then the documentation shall be revised to include all available Disposal Area acreage identified in the respective Plans, and calculation of all available Disposal Area capacity for those Disposal Areas after providing for required buffer areas, required slopes (2 to 1) for both beneath-grade and above-grade disposal area, all required distances from ground water, compaction of in-place bank yards at 1,200 pounds per cubic yard and suitable deductions for daily cover, roads, and other site requirements (at 15% unless otherwise documented).

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 (See Section III-13). 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, the County 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: <u>Facilities Included in this Plan</u>:

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: <u>Type II Landfill Disposal Area</u>: A Type II Landfill disposal area, 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 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 Solid Waste

Transfer Station 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: A Solid Waste Transfer Station 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 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 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, will only be considered if part of the county-sponsored transfer facility(s), yet are still exempt from local zoning as stated in Part 115 of NREPA.

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 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 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.

SELECTED SYSTEM

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:

Planning Department
Benzie County
P.O. Box 398
Beulah, MI 49617
616 882-9674

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
Transfer Station*	$4,000

** applicable only if siting process is required to operated due to less than 66 months of capacity as described in "Authorized Disposal Area Types" section of this Siting Review Procedure.*

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 this 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 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 the 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 emended, 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 one to 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 or 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 permit, operating permit,
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,

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 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.

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. 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 the 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; and
   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 the 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 Board for the final consistency determination. If an Application if 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.

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			Analysis Submitted Documenting Availability of Required Public Services
S			Written Agreement to Abide by Certain Regulatory Requirements
T			Written Agreement to Abide by Certain Non-locational Zoning Requirements
U			Written Agreement to Abide by Certain Setback 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.*) or local wetland ordinance

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;

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:

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.

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.*).

P. No part of the site and respective parcel(s) is located less than one mile from the boundary edge of certain recreation lands:

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, 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. An analysis has been submitted that defines the public services which are required by the solid waste disposal area, that inventories existing public services (fire protection, sewer, water, sanitation, County emergency services/response, and utilities including gas, electric, telephone) 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 of this analysis is all that is required to meet this criteria.

S. Applicant has submitted a written agreement legally declaring to the County that they will abide by and remain in compliance with the following setback, buffering, screening and service access requirements.

1: For facilities which are landfill disposal areas or landfill disposal area expansions, 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.

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, and

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

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, 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 be similarly activities;

ii: Shall consist of the following for any side of the parcel that is adjacent to a 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 the above.

ii: 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.

T. Applicant has submitted a written and signed statement legally declaring to the County 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 of this analysis is all that is required to meet this criteria.

U. Applicant has submitted a written and signed statement legally declaring to the County 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 of this statement is all that is required to meet this criteria.

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

Benzie County benefits from having access to many of the key program operators including 1) existing landfill/hauling operations in adjacent counties, 2) a network of recycling drop-offs including two companies (one for profit and the other a non-profit) set up to provide those services, 3) recycling processing facilities in adjacent counties, both with an interest in servicing the County and 4) yard waste composting facilities in adjacent counties that could either provide services or supply equipment to a composting site located within the county. The County also benefits from the established P.A. 138 funding system that is already providing funding for local programs. Finally, the county benefits from having an established decision making structure through its Solid Waste Management Authority Board that oversees the current P.A. 138 funded system.

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.

NEEDS OF THE MANAGEMENT COMPONENT

There are three principal gaps that need to be addressed in the Plan's Enforceable Program and in developing a management component capable of funding the selected alternative.

1) Strengthening the funding mechanism in the selected system is a critical element of the necessary management component. This is especially critical given the need for facilities to be open to all haulers and recycling collectors in the region "on the same terms" (i.e.: all users pay the same rates and have the same access)

2) Strengthening the funding mechanism for "value added" programs is a critical element of the necessary management component. The "value added" programs are the services and program functions that are difficult to link to a particular user under a typical system and include household hazardous waste services, overall education/promotion of the programs, drop-off recycling programs, overall program management, planning and development costs, selected program capital and operating costs and other services as deemed necessary.

3) Implementing an organizational mechanism that guarantees that all households and businesses within all jurisdictions in the County have access to the types of "value added" recycling programs identified above so that the County will be in compliance with the import recycling requirements of the County Plans that cover the landfills where the majority of Benzie County was is exported to, as identified in those Plans and any applicable reciprocal agreements.

The Management Components that are authorized by this Plan's Enforceable Program include all organizational mechanisms deemed necessary to enable the above two funding mechanisms to work, further developed as described below.

FURTHER DEVELOPMENT OF THE MANAGEMENT COMPONENT

The Authorized Management Component builds on the County's current organizational and management structure. Further development of the Plan's Authorized Management Component is provided for as part of the Plan's Enforceable Program and Process as deemed necessary to enable the three funding and organizational mechanisms to work that were referenced in the prior subsection.

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 implementation of all aspects of the Plan's Enforceable Program.

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.

Components of the Management System will include:

- The county will establish the role of a designated implementation agency with necessary staffing/administrative capability to reach project goals.
- An oversight committee will be established that has the endorsement of the key stakeholders and that provides a mechanism for community input into the system.
- A legal/ordinance framework will be developed that will help establish necessary controls for the funding mechanisms and the delegation of authority
- A county program for recycling and related solid waste management services will be developed that meets the requirements of this Plan and that meets the import requirements of County Plans where landfills used by Benzie County are located.
- Local units of government within the County will be asked to join the County Program or provide an equivalent program in terms of service type and availability.
- Contracts between the various participants in the system will be developed that will specify services, exchange of resources, etc.

IMPLEMENTATION OF THE MANAGEMENT COMPONENT

In evaluating options and making final decisions, the Management Component of the Plan's Enforceable Program provides for the County to take steps required for implementing the selected alternative, both organizationally and legally. These steps are expected to follow some, if not all, of the following more detailed description of a management system that will provide for a method of funding the Selected Alternative.

These key components of the organizational and management structure required to develop a suitable funding mechanism to implement the Selected Alternative include:

A: Creation of a County Department of Public Works as the designated implementation agency, with the role of Director, staff and supporting County administrative leadership assigned to existing resources if possible.

B: Creation of a 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 selected components of the Plan's Enforceable Program including responsibility for development and adoption of an annual strategic plan and budget.

C: Full utilization of the statutory authorities and powers of the County Department of Public Works as provided for by Michigan law, enabling support for implementation of the selected alternative and the Plan's Enforceable Program with appropriate legal, management and financial capabilities.

D: Full utilization of the County DPW Board's authority to create subcommittees to address specific issues in program implementation as needed.

E: The assignment, via existing intergovernmental contracts, of certain powers and responsibilities to the County DPW by local units of government in the County.

F: Drafting and adoption of a Benzie County Solid Waste Ordinance, that takes these powers and responsibilities and structures the basic framework of the Benzie County solid waste and recycling system.

G: Drafting and adoption of Administrative Rules for the Benzie County Solid Waste Ordinance that prescribes in greater detail the specific components of the system.

H: Administration of Hauler Licensing Agreements authorized by the Ordinance and Administrative Rules

I: Administration of facility designation arrangements authorized by the Ordinance and Administrative Rules for solid waste.

J: Assignment of County DPW management/operational staff to oversee County programs.

K: Full utilization of the County DPW's contracting capability for operating programs (e.g. household hazardous waste services).

These organizational and management structures as just described are deemed to be consistent with the Plan and 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.

Other steps that will be taken as part of the Management Component include:

L: Development of 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 Designated Plan Implementation Agency for Benzie County. 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. The action plan format will also provide for a means to be updated on a regular basis based on 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.

M: Development and adoption of intergovernmental contracts between the County and participating local units of government that would further strengthen the P.A. 138 funding system and other supporting funding mechanisms and take additional steps to assign certain powers and responsibilities to the County and include as attachments a new Benzie County Solid Waste Ordinance and supporting administrative rules. The ordinance and rules would use the authority delegated by the local units to structure the basic framework of the solid waste and recycling system for the County including a hauler licensing system as well as enhancements to the P.A. 138 funding mechanism. Taking these steps will involve a negotiation process with communities in the County to identify and resolve specific issues that need to be addressed before the communities are comfortable with the planned approach. These communities as well as other key parties affected by the planned programs would need to be asked to participate in discussions on implementation details, scheduling and coordination issues. The resulting recommendations would then be incorporated into the Action Plan. This process should involve negotiations with nearby counties interested in working with the County on various program areas (e.g. recycling processing) so that these details can be worked out and incorporated into the Action Plan.

N: System improvements, new services, required contract/licensing structures and recycling facility would be further detailed, incorporated into the Action Plan and then implemented. Much of the implementation would be by private and/or non-profit or other governmental agencies with service contracts being the principal means to define services and the necessary flow of funds. In addition to the local intergovernmental contract and the hauler licensing contracts, it is expected that service contracts would also be needed between the designated implementing agency and the recycling facility to be used and the yard waste composting facility to be used. Other contracts may be needed for purchased services such as the household hazardous waste program. Some of the larger municipalities will also need to contract with haulers for curbside recycling for all their households as part of the second phase of the planned program.

O: 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

P: Leveraging of contributed resources will be encouraged in order to reduce program budget requirements. The best model of this is again the Lakeshore Industries recycling drop-off system serving Benzie and Manistee Counties which benefits from donated funds, equipment, services and labor in order to lower capital and operating costs. These approaches will be used to build the perception for residents and businesses that the "community recycling program" is theirs - run for their benefit and for an improved quality of life and better business climate. Public and private service agencies as well as school groups will be brought involved as much as practical. It will be important to work with these groups to make sure that the full range of materials are recycled in drop-off systems.

Q: Private bank financing will be expected to be available for capital improvements made by private companies and non-profits that are involved in the system -- supported by the contracting framework described above with long contract timelines, sufficient funds and suitable allocation of risk.

R: Agency funds from public entities will be an important part of the mix of operating and capital funding that are needed to sustain the system. These funds will be part of ongoing operational cost areas that are already part of municipal budgets. In addition, these agency funds will be used to assist in part with capital requirements for some of the projects.

S: Bond financing may be a funding mechanism that is used depending on how the overall system is structured and the level of involvement by the county and/or area municipalities.

T: Further steps should be taken to access the fundraising power of private giving and foundations to build off the good will that private donors are ready to contribute to recycling and the environment. A "friends of Benzie County recycling" will be created to leverage additional private donations from individuals, estates, foundations as well as corporations and other granting agencies that can strengthen the overall program across the County. These efforts will be used to provide support for education and promotion of clean community initiatives, reduce/reuse/recycle programming and capital funds for informational exhibits, displays, educational facilities and school programs. It will also be used as a tool 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.

III-11 IDENTIFICATION OF RESPONSIBLE PARTIES

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

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

Board of Public Works: This board will be 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, solid waste and recycling programs, and all related resource recovery programs run by a DPW. This includes oversight of hauler licensing arrangements, and other services, as required by the ordinance.

Department of Public Works: This office, which will have a director reporting to the Board of Public Works, will provide day-to-day management of County solid waste management programs. This will include 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 any required facilities; and providing general information to the public.

Solid Waste Management Planning Committee (SWMPC): The Benzie County SWMPC will be responsible for updating the County five-year and 10-year Solid Waste Management Plan. The SWMPC will also be 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, will be responsible 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)/waste generators
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 -	Benzie County DPW Municipal Departments of Public Works Private waste companies
Recycling -	DPW, Public Agencies & Private companies
Energy Production -	not applicable
Volume Reduction Techniques:	DPW and waste generators
Collection Processes:	DPW, Public Agencies & Private waste companies
Transportation:	DPW, Public Agencies & Private waste companies

SELECTED SYSTEM

Disposal Areas:

Processing Plants -	DPW, Public Agencies & Private waste companies
Incineration -	not applicable
Transfer Stations -	DPW
Sanitary Landfills -	not applicable
Ultimate Disposal Area Uses:	Private Companies
Local Responsibility for Plan Update Monitoring & Enforcement:	DPW
Educational and Informational Programs:	DPW/Benzie Conservation District/Others

Documentation of acceptance of responsibilities is contained in Appendix D.

III-12 LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

_____1 Section 11538.(8) and rule 710 (3) of Part 115. prohibits enforcement of all County and local ordinances and regulations pertaining to solid waste disposal areas, unless explicitly included in an approved Solid Waste Management Plan. Local regulations and ordinances intended to be part of this Plan must be specified below and the manner in which they will be applied described.

_____2. This Plan recognizes, and incorporates as enforceable, the following specific provisions based on existing zoning ordinances:

A Geographic area/Unit of government:
Type of disposal area affected:
Ordinance or other legal basis:
Requirement/restriction:

_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.

A demonstration of available capacity for Benzie County's primary disposal needs is provided in the form of letters from two landfills (Glen's owned by WMI and Manistee County Landfill owned by Allied) as shown in Attachment B.

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

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.

Existing Programs:

Drop-off recycling stations - Residential drop-off recycling services are provided by Waste Management (United Waste) as part of an agreement with the County. Equipment is selected, provided and operated by Waste Management, and consists of curbside recycling trucks and bins for corrugated cardboard. Fiber-only drop-off sites are operated by volunteers using donated semi-trailers.

Curbside Collection: Private waste haulers that currently provide service by subscription select their own equipment.

Commercial Collection: Waste collectors operating in the County offer collection of OCC and office paper to customers. The operators are able to select the equipment that they use for this service.

Recycling Processing - The new Waste Management, Inc. (aka: USA/United Waste) currently operates one of the only local recycling processing facility, located on the south side of Traverse City. Equipment in the facility is selected, provided and operated by United Waste. It consists primarily of a sorting line for mixed containers (plastic, cans and glass), a paper baler, and equipment used to move material around the facility, such as loaders and fork lifts. Lakeshore Industries of Manistee County also provides fiber-only processing services. Its facility consists of several downstroke, manual feed balers.

Composting - No composting equipment is currently available in the County

Proposed Programs:

Drop-off recycling stations - Benzie County plans to continue using private contractors to operate drop-off stations with the contractor providing equipment as specified by the County. If contractors are unable to provide adequate and reasonable service, the County may choose to operate some portion of the drop-off collection system. In that case the County would be responsible for selection of new equipment as needed.

Curbside Collection: Waste collectors operating in a future urban curbside district would be required to offer curbside collection to residential customers. The operators would select the equipment that they use for this service. When service contracts are bid, it is expected that private collectors will continue to select and provide their own equipment. The bid language may include requirements that would affect equipment selected.

Commercial Collection: The operators are able to select the equipment that they use for this service. In the future, the County may choose to assist businesses in bundling a service agreement that could include designation of certain bags, bins, carts, dumpsters or other collection containers.

Recycling Processing - The new Waste Management, Inc. (aka: USA/United Waste) currently operates a recycling processing facility. Equipment in the facility is selected, provided and operated by United Waste. If that facility is expanded to handle more material or types of material, United Waste will select the equipment. At Lakeshore Industries, a working committee overseas operations, including equipment selection. Benzie County has been a member of this committee, as well as the non-profit, Benzie County Recyclers.

Composting - The County would work with local municipalities in sharing or leasing equipment for a potential new compost site.

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.

The following table shows estimated total waste composition and volumes by material type. Totals include all sectors (residential, commercial, industrial). 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 Benzie County.

Table A-1: Total Waste Composition (tons per year)

	Percent of Total Waste	1998 Tons	2003 Tons	2008 Tons
Totals	100%	10,697	11,282	11,922
Newsprint (ONP)	5%	542	572	604
Mixed Office	6%	600	633	669
Old Corrugated Containers (OCC)	19%	2,066	2,179	2,302
Mixed Other Paper	8%	889	938	991
All Metals	12%	1,241	1,309	1,383
All Textiles	2%	232	245	259
All Glass	6%	589	622	657
All Plastic	7%	786	829	876
All Yard Waste	17%	1,781	1,878	1,985
Food Waste	10%	1,040	1,097	1,159
Wood Waste	5%	481	508	536
Misc. Bio-degradable	2%	246	259	274
Misc. Non Bio-degradable	2%	203	214	227

The table below projects estimates of material recovery by program type.

Table A-2: Program Recovery Estimates (tons per year)

	1997	2003	2008
Drop-off system	665	800	800
Curbside recycling	50	50	450
Commercial recycling	375	650	1,100
Yard waste	300	500	650
Total Recovery	**1,390**	**2,000**	**3,000**

Site Availability & Selection

Existing Programs:

Drop-offs - Existing sites will continue to operate. Location of new drop-off sites operated through the County drop-off program will be approved through the Recycling Implementation Committee.

Recycling Processing/Transfer - Existing programs will continue to use existing facilities, until such time as the County develops a new recycling processing and waste transfer facility.

Composting - Existing programs will continue to use existing facilities.

Proposed Programs:

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

Recycling Processing/Transfer - The County may choose to participate in a regional facility that includes transfer capability, a site selection committee will be convened and the Plan site selection process will be followed.

Composting - The county would select any potential sites.

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.

Future Programs:

Program Name	pH Range	Heat Range	Stability
Benzie County 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

Proposed Programs:

Any new compost programs (public or private) should meet the parameters stated above.

COORDINATION OF 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.

The Benzie County Designated Plan Implementation Agency will have responsibility for program implementation as the designated implementation agency. The Designated Plan Implementation Agency will 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, contractual arrangements for facility development as needed 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.

COSTS & FUNDING:

These system options assume certain organizational and management variables such as service provider roles, in order to estimate costs. Costs are in most cases, "worst case" and could be actually lower based on the ability of the County to leverage or facilitate cooperative agreements with service providers, local government and other system users Costs also in some cases do not reflect existing "sunk costs" or investments that have already been made. Long-term capital and operating funding, intergovernmental arrangements and other organizational and management roles must be determined by the County and will affect the scope of the budget. It should also be noted that some costs such as commercial recycling collection and subscription curbside, are assumed to be "user fees", i.e. businesses and residents that use those services pay the service provider directly.

Clean Community:

Program Description	Estimated Costs Per Year	Timeline
Solid waste collection services: provided to all households and businesses in the County Illegal dumping and litter would be policed with enforcement of violations.	Status quo (residents contract with service provider, or township/municipality provides collection)	1998-2008
Spring/fall cleanup days: Municipalities would provide annual clean-up programs with scavenging/trading/reuse encouraged and recycling of as many materials left as possible.	Dependent on individual community programs	1998-2008
Household hazardous waste collection services: Collection arranged four times per year at a mobile site, with services provided by private vendor.	$9,000; assumes 500 participants @ $18 per use and hauler assumes site liability	1998-2008
Adopt a "____" programs would be organized with volunteers and business/service group sponsorship for periodic cleaning of roadsides, streambanks, lakeshores, parks and forests.	Largely based on volunteer efforts and intergovernmental cooperation	1998-2008

Recycling Incentives:

Program Description	Estimated Costs Per Year	Timeline
Promotion and Education: a range of outreach efforts would support all system programs, including recycling, composting, household hazardous waste collection and businesses waste reduction; county-wide mailings (twice per year); radio ads, newspaper ads, presentations and public displays are recommended	$8-$20,000 ($2-$4 per household per year) with cost escalating as new programs are added	1998-2008
Pay as You Throw (PAYT): residents pay for solid waste collection depending on the volume they put at curb, including option for pay by the bag	Approximately $1-$1 50 per bag (paid by resident); other rates for cart service	1999-2008

Residential Recycling:

Program Description	Estimated Costs Per Year	Timeline
Expanded Drop-off Sites: existing drop-off sites would be upgraded and standardized; satellite sites would be added for a total of up to 8 sites; acceptable materials and collection methods would be consistent between all sites which would be open to all County residents and small businesses; sites would be open at least several days per week and would consist of roll-off containers and OCC-only dumpsters Recovery Estimate: 800 tons/year (not incl. OCC from businesses using drop-offs)	Servicing: $100 per pull x 320 pulls per year (two roll-off containers per site x 8 sites) = $32,000/yr Processing: $30-45/ton x 800 tons = $24-$36,000; could be reduced through OCC only dumpster servicing at lower cost (potential revenue not incl.) Capital: 18 30-yd-roll-off containers (includes 2 extras) at $4,500 ea.; site improvements (fencing, signage, additional)	1998-2003
Expanded Drop-off Sites: 7 locations, 24-hour-per-day sites Recovery Estimate: 450 tons/year	Servicing: $100 per pull x 180 pulls per year = $18,000/yr (assumes 2.5 tons per pull) Processing: $30-45/ton x 450 tons = $13-20,000; could be reduced through OCC only dumpster servicing at lower cost Capital: Site improvements (fencing, signage)	2003-2008
"Super" Drop-off (flagship station): One central site becomes permanent, flagship site with some staffing, added materials such as textiles, batteries, construction and demolition (C&D) Recovery Estimate: 350 tons/year; addition of C&D could add as much as another 500 tons/year	Servicing: $100 per pull x 140 pulls per year = $14,000/yr (assumes 2.5 tons per pull) Processing: $30-45/ton x 350 tons = $10-16,000; could be reduced through OCC only dumpster servicing at lower cost Capital: 4 roll-offs @$4,500 ea. Staffing/cleanup: $10-$30,000 per site	2003-2008
Subscription Curbside Recycling: residents in a more urban district would be urged to subscribe for curbside recycling Recovery Estimate: 30 tons per year (assumes 150 households participating)	$5/hh/month (paid by residents)	1998-2003
Contracted Curbside Recycling: residents in a designated curbside district would receive weekly curbside recycling under a coordinated contract bid Recovery Estimate: 425 tons per year (assumes 2,000 households participating)	$3.00/hh/month; blended with solid waste bill, water bill, PA 138 or paid by municipality	2003-2008

Yard Waste Recovery:

Program Description	Estimated Costs / Year	Timelin e
Yard Waste Drop-off Sites: add yard waste collection bins at one or more recycling drop-off sites Recovery Estimate: 100 tons/year	Servicing: $3,000/yr	1998-2008
Backyard Composting: Composting bins and mulching mower blades would be made available at low cost to residents. Education would focus on alternatives to collecting organic wastes. Target 1-2000 households Recovery Estimate: 100 tons/year	Estimated cost of $2,000 per year	1998-2008
Fall leaf collection: all municipalities would conduct fall leaf collection (Frankfort, Elberta, Benzonia, Honor, Beulah) Recovery Estimate: 550 tons/year	Servicing: $15,000/ yr; difficult to quantify based on existing municipal equipment (loaders, trucks, etc.)	1998-2008
Alternative Seasonal Collection System: residents could purchase designated special paper yard waste bags ($1 to $2 ea) which would allow contractor or municipal crew to pick up yard debris weekly during the growing season	$1-$2/bag to cover collection costs	1998-2008
Yard Waste Processing: development of compost processing site equipped with a front loader to turn piles and break up paper bags; other processing equipment could be rented/ shared as needed to process/prepare finished compost which could be used in parks projects or returned to residents; other locally-owned equipment such as a front loader could be used to help lower capitalization costs Eventually, food waste from area food processors could be evaluated for co-composting with yard waste.	Range of $20,000-$30,000 per year operating, depending on equipment availability	1998-2008

Commercial Recycling:

Program Description	Estimated Costs / Year	Timelin e
Commercial Corrugated Routes: existing OCC routes would be expanded, largely through education efforts Individual businesses contract directly for this service, and assume that they would pay less for OCC pickup than trash pickup. Other businesses would use drop-offs Recovery Estimate: 650 tons/yr	$40-50,000, assuming a front or rear-packer services larger businesses in county with two routes per week (potential revenue not included)	1998-2003
Expanded Commercial OCC/paper routes/industrial recovery: development of a service district, with "bundled" contracted service would lure service provider to bid on coordinated route to service multiple businesses with curbcart, bins, bags and/or other system; education effort to encourage other commercial/industrial recovery Recovery Estimate: 1100 tons/year	$75,000 includes three routes per week; includes amortization of containers/bins/bags (revenue not included)	2003-2008

Solid Waste Transfer:

Program Description	Estimated Costs / Year	Timeline
Addition of solid waste transfer capabilities (both Type A and Type B will be evaluated for future options	variable	1998-2008

APPENDIX A

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

Advantages:

- Clean community and education/promotion create stronger interest in responsible practices
- Illegal dumping activity minimized
- Most small quantity unregulated hazardous wastes diverted from landfill disposal
- Recycling/composting starts to become the dominant method of waste management
- Organics management system is an effective alternative to landfilling
- Seasonal/Tourist population has option with recycling and solid waste drop-offs
- Recycling processing/marketing system has very strong foundation
- Less reliance on landfills for disposal especially with ramp up of commercial/C&D recycling
- Alternatives landfills used should costs rise or availability be limited

Disadvantages:

- System costs still can be improved while maintaining or increasing level of diversion

Overall Performance:

- Source reduction impact will be observed both residential and commercial
- Diversion through recycling/composting likely in the 30% +/- range
- Landfill capacity less critical to long term system health

Overall Cost Impact:

- System costs increase ($10.00 to $14.00 per capita per year as general estimate)
- Reduced overall solid waste collection costs begin to be realized
- Some offsetting savings in reduced waste transport/disposal ($30 - $50 per ton or $8 - $10 per capita/yr)

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. Complete one evaluation summary for each non-selected alternative system.

Over a period of five months, the Solid Waste Planning Committee met to consider goals and objectives for the solid waste planning period, and to evaluate system alternatives and how each alternative would meet goals and objectives as approved.

In addition, the County was presented with a "continuum" of system approaches, beginning with a base-level system of collection and disposal, through an extremely aggressive recovery and waste reduction approach.

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

Benzie County evaluated its current achievements and goals for improved future solid waste management against these benchmarks. It was concluded that the County was already operating between the C and D levels. The County chose as a goal of the Solid Waste Plan to move toward the D to E level.

Programs of the Selected System were built upon existing successes and include every program category considered (as listed above) except those underlined.

The underlined programs were excluded as explained below:

SYSTEM COMPONENTS:

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

COLLECTION PROCESSES:

Mobile Drop-offs - for Sorted Recyclables (Benzie County has outgrown this approach in favor of permanent stations)

Co-collection of Separated Recyclables and Solid Waste

Two or Three Stream "Wet/Dry" Collection

Co-collection of "Blue Bag" Recyclables and Solid Waste

The three above programs require extensive capital investment without providing significant advantages over the Selected System programs.

PROCESSING:

Stand-Alone Recycling Processing Facilities (MRF)

Mixed Waste Recycling and Compost Processing Facility

A mixed waste composting program requires extensive capital investment without providing significant advantages over the Selected System programs.

DISPOSAL AREAS:

Smaller Solid Waste Landfills Serving Counties

Benzie County has chosen to consider a landfill ownership option.

Municipal Solid Waste Incineration

Adequate landfill capacity is available. Incineration provides no obvious advantages at significant capital risk.

In selecting a waste management system, Benzie County separated the system management and financial considerations from the cost/benefit evaluation of individual programs. Once it was decided that the 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.

The County chose to continue using is powers under its Ordinance and Intergovernmental Agreement as the primary means to finance future programs.

INSTITUTIONAL ARRANGEMENTS:

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.

EVALUATION SUMMARY OF NON-SELECTED SYSTEM:

The non-selected system was evaluated to determine its potential of impacting human health, economics, environmental, transportation, siting and energy resources of the County. In addition, it was reviewed for technical feasibility, and whether it would have public support.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

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

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

ADVANTAGES:

1. Some 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

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.

Benzie County's Planning Department and the Solid Waste Planning Committee complied with all requirements for public participation and approval at all times and has filed all necessary documentation. 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 June 29, 1999 and the Public Comment Period was initiated on June 29, 1999, and closed on August 30, 1999. The Public Hearing was held on August 30, 1999. 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 September 28, 1999 and approved the draft plan. The revised Plan was presented to the County Board of Commissioners on October 19, 1999, and approved by unanimous vote. The Plan was released for municipal approval the week of October 25, 1999. Resolutions approving the Plan were adopted by 2/3's of the Local Units of Government and are attached. The Plan was submitted to the Michigan DEQ for final approval the week of March 10, 2000.

PUBLIC COMMENT PERIOD INPUT:

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

Platte Township, 7/8/99	Letter received in support of the draft Solid Waste Plan.
Village of Honor, 6/10/99	Letter received in support of the draft Solid Waste Plan, and commending the Committee for its development of the Plan; comment also confirming participation in the Plan.
Almira Township, 6/3/99	Comment concerning hazardous waste disposal. The Township is concerned that it would be a duplication of effort and expensive to set up a collection site in Benzie County, and recommend expand the service currently available through Grand Traverse County. Comment that the Committee did an excellent job developing the Plan.
Public Hearing, 8/30/99	Comments were made about fees for pumping liquid waste, and it was explained this committee was not the proper forum. A representative of Lakeshore Enterprises and Benzie County Recyclers stated support from their board for the Plan, and commented that the Recyclers hoped to expand their services. There was discussion of the need for a pickup service for commercial corrugated

cardboard. There was a discussion of potential for staffed drop-off services, because of the possibility of losing volunteer support for these current services in Frankfort.

A letter dated September 2, 1999 and an attached position paper was received from the law firm of Honigman, Miller, Schwartz and Cohn representing the Michigan Waste Industries Association (MWIA). The letter and position paper was a standard form document sent to many, if not all, counties preparing these solid waste plans A number of issues of concern for MWIA regarding solid waste plans in general were raised by the written materials. None of the material specifically addressed the content of the draft Benzie County Solid Waste Management Plan. The issues raised have all been discussed by MWIA in detail with the State of Michigan Department of Environmental Quality and have as well been reviewed by the State of Michigan Office of Attorney General.

The Benzie County Solid Waste Plan and its Enforceable Plan and Program are intended to be consistent with all applicable laws of the State of Michigan. Some components of the Benzie County Solid Waste Plan and its Enforceable Plan and Program may not specifically be authorized under Part 115 of NREPA, but are not inconsistent with that act and, in fact, are authorized by other parts of Michigan statute. Benzie County has the right to amend its plan or components of its Enforceable Program, if needed, to address any future change in law, regulation or court case interpretations that may be triggered by the Michigan Waste Industries Association or its members, in order to preserve the ability of Benzie County to implement its Solid Waste Management Plan.

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.

BENZIE COUNTY
SOLID WASTE PLAN
LOCAL UNIT OF GOVERNMENT APPROVAL

Name of Local Unit of Government	Approval	Not Approved	Resolution Received	
ALMIRA TOWNSHIP	✔		✔	
BENZONIA TOWNSHIP	✔		✔	
BLAINE TOWNSHIP	✔		✔	
COLFAX TOWNSHIP	✔		✔	
CRYSTAL LAKE TOWNSHIP	✔		✔	
GILMORE TOWNSHIP	✔		✔	
HOMESTEAD TOWNSHIP	✔		✔	
INLAND TOWNSHIP	✔		✔	
JOYFIELD TOWNSHIP	✔		✔	
LAKE TOWNSHIP	✔		✔	
PLATTE TOWNSHIP	✔		✔	
WELDON TOWNSHIP	✔		✔	
VILLAGE OF BENZONIA	✔		✔	
VILLAGE OF BEULAH	✔		✔	
VILLAGE OF ELBERTA	✔		✔	
VILLAGE OF HONOR	✔		✔	
VILLAGE OF LAKE ANN	✔		✔	
VILLAGE OF THOMPSONVILLE	✔		✔	
CITY OF FRANKFORT	✔		✔	
TOTALS MUNICIPALITIES 19	**19**		**19**	
100% APPROVAL				

Resolution of the
Almira Township Board

Benzie Co. Solid Waste Plan
2-2000 #2

WHEREAS, Almira Township, Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, Almira Township has benefited from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority of all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known a BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to land fills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages, and

WHEREAS, The Intercounty Agreements between Leelanau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their counties, and

WHEREAS, The County will provide such disposal alternative service at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW, THEREFORE, BE IT HEREBY RESOLVED that Almira Township hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the

Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next ten (10) years and farther into the future as necessary PROVIDED, HOWEVER that nothing contained in this resolution shall limit the authority of the Almira Township Board from making future solid waste disposal decisions for Almira Township that are determined by the Township Board to be in the best interests of the citizens of Almira Township.

The foregoing resolution offered by Board Member Steve Puchovan and supported by Board Member Mark Roper.

Upon roll call vote, the following voted:

Aye: Roper, Puchovan, Campeau, Pomper, and Macomber
Nay: None
Absent: None

The Supervisor declared the resolution adopted.

Carol Pomper
Almira Township Clerk
Dated: February 9, 2000

CERTIFICATE:

I, Carol Pomper, the duly elected and acting Clerk of Almira 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 February 9, 2000 at which meeting a quorum was present by a roll call vote of said members as herein before set forth; that said resolution was ordered to take immediate effect.

Carol Pomper

Carol Pomper
Almira Township Clerk
Benzie County, Michigan

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT

DEC 7 1999

RESOLUTION

WHEREAS, BENZONIA TOWNSHIP *(city, village, or township) Benzie County has been* involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, BENZONIA TOWNSHIP *(city, village, or township)* has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties

banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT BENZONIA TOWNSHIP (City, Village, Or Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary

Patricia A. Mead

BENZONIA TOWNSHIP CLERK
PATRICIA A. MEAD

James R. Sheets

BENZONIA TOWNSHIP SUPERVISOR
JAMES R. SHEETS

DATED: 2 DECEMBER, 1999

RESOLUTION

WHEREAS, Blaine Township (city, village, or township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, Blaine Township (city, village, or township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority of all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties

banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT Blaine Township (City, Village, Or Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary.

The regular meeting of the Blaine Township Board was called to order by Supervisor Smeltzer at 7:33 pm on December 7, 1999. Smeltzer asked for a motion to amend our ajenda to allow Marlan Reichle representing the Benzie County Solid Waste Management plan to make his presentation following the payment of bills. Putney moved, Kidder supported the changing of the ajenda, ayes all carried. Roll call: Smeltzer-present, Putney-resent, Kimpel-absent, Kidder-present, Evans-absent. Also present was Marlan Reichle and 2 interested citizens.

The clerk read the minutes of the Nov. 2 meeting. They stand approved as read.

The clerk presented the treasurer's report. We have a total of $118064.18 in our general fund, cemetery passbook perpetual care fund $723.55, other balances remain the same. Kidder moved, Putney supported to receive the treasurer's report as presented, ayes all, carried.

The clerk presented the bills. Putney moved, Kidder supported to pay bills 3295 thru 3304. Roll call: Smeltzer-aye, Putney-aye, Kimpel-absent, Kidder-aye, Evans-absent.

3295	Donald C. Smeltzer	101-171-702	258.34	19.77	
		715		19.77	238.57
3296	Emilie Kimpel	101-253-702	375.00	28.68	
		715		28.69	
		727	198.44		544.76
3297	Charlotte Putney	101-215-702	375.00	28.68	
		715		28.69	346.32
3298	Internal Revenue Service				154.28
3299	Ameritech	101-265-920			24.00
3300	Crystal Water Works	101-276-930			100.00
3301	Consumers Energy	101-265-920			80.00
3302	Julie Krombeen	101-209-716	308.34		
		860	150.00		458.34
3303	The Paper Clip	101-253-727			6.59
3304	Vicki Sheffield	101-265-965			25.00
					1977.86

Marlan Reichle spoke on behalf of the Solid Waste Management Plan and suggested possible changes in the wording. Smeltzer read the resolution to the assembly. It was discussed. The board decided that it could live with the wording - we by passing the resolution are supporting the county solid waste plan. Kidder moved, Putney supported the adoption of the attached resolution. Roll call: Smeltzer-aye, Putney-aye, Kimpel-absent, Kidder-aye, Evans-absent. We thanked Mr. Reichle and he left.

Correspondence
Update from FEMA on the Blaine Flood Plain Act.
Smeltzer read a letter from Don Swartz, county zoning administrator, offering assistance on the plan.
A letter from John Daugherty updating us on Anderson vs Molzinger.

Unfinished business
Don Kidder presented samples (pictures) of possible signs for the cemetery and a White Owl for our hall. These were discussed. Smeltzer requested that Kidder make sure with Benzie County zoning that we dod not need a permit for the cemetery sign.

Comments on unfinished business
Bob Danek a sked Kidder what he knows about why the road commission will fix some pot holes and leave others a foot down the road unfilled. No one on the board knows. Danek expressed dissatification with the way the Road Commissionis run. Board suggested that he might want to go to see the commission.

New Business
Putney reported that Garry Pierce - the man who sets our voting machine - called to say he had a used one for sale - guaranteed - for $450.00 delivered to Blaine. Putney talked to Jean Bowers - she feels that the machine is overpriced and also told Putney

that we are legal with just one machine - we need a second one when we have over 500 registered voters. (We have about 425). We can use paper ballots as a back up. She suggested watching the MTA magazine for used ones - and will keep her ears open also.

Public comment on new business
George Goalen asked how he would know if his property is in the flood plain. Smeltzer explained the map.

No further business, Putney moved, Kidder supported to adjourn, meeting adjourned at 8:45 pm.

Respectfully submitted
Charlotte Putney
Charlotte Putney, Clerk

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT

FEB 1 1 2000

RESOLUTION

WHEREAS, COLFAX (~~city, village, or~~ township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, COLFAX (~~city, village, or~~ township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties

banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT COLFAX (~~City, Village, Or~~ Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary.

The foregoing resolution offered by Board Member Morrow and supported by Board Member Pelon

Upon roll call vote, the following voted:

Aye: Smith; Pelon; Maginity; Moorman; Morrow
Nay: None
Absent: None

The Clerk declared the resolution adopted.

Michael Moorman, Clerk of Colfax Township, dated November 10, 1999

Michael Moorman

Allen. Dave Berger
Planning Dept.

BENZIE COUNTY SOLID WASTE PLANNING
RESOLUTION

WHEREAS, CRYSTAL LAKE TOWNSHIP HAS BENEFITTED FROM THE MULTI-JURISDICTIONAL AND COMPETITIVELY NEGOTIATED AND PROVIDED DISPOSAL ALTERNATIVES PROGRAM, AND

WHEREAS, CONTINUED COMPETITION IN THE SOLID WASTE INDUSTRY ON THE REGIONAL LEVEL IS CRITICAL TO MAINTAINING A COST-COMPETITIVE ENVIRONMENT AND PROVIDING OPTIONS FOR CHOOSING SOLID WASTE SERVICE PROVIDERS, ON BOTH A COUNTY WIDE AND AN INDIVIDUAL LEVEL, AND

WHEREAS, THE SOLID WASTE COMPANIES OPERATING IN NORTHERN MICHIGAN CURRENTLY KNOWN AS BFI MERGED WITH ALLIED WHICH IS NOW KNOW AS SHORELINE WASTE. UNITED WASTE SYSTEMS AND THEN USA WASTE BECAME ONE UNDER WASTE MANAGEMENT WHILE CITY ENVIRONMENTAL SERVICES AND NORTHERN A-1 REMAIN AS INDIVIDUAL COMPANIES, AND

WHEREAS, THE MERGERS HAVE ELIMINATED COMPETITION FOR WASTE SERVICES INCLUDING BUT NOT LIMITED TO LANDFILLS, RECYCLING, HAULING, ETC. IN NORTHERN MICHIGAN, AND

WHEREAS, WASTE MANAGEMENT NOW OWNS ROUGHLY 45% OF THE LANDFILLS AND 60% OF THE STATES SOLID WASTE DISPOSAL CAPACITY AND

WHEREAS, THE ONLY WAY TO COUNTER THIS LARGE INTERNATIONAL MEGA-COMPANY IS ON A REGIONAL SCALE BY SEVERAL MUNICIPALITIES OR MORE APPROPRIATELY COUNTIES BANDING TOGETHER ON A MULTI-JURISDICTIONAL BASIS TO GAIN PRICING AND SERVICE ADVANTAGES, AND

WHEREAS, THE INTERCOUNTY AGREEMENTS BETWEEN LEELANAU AND MANISTEE COUNTIES SPECIFY THAT BENZIE COUNTY SHALL PROVIDE SOLID WASTE DISPOSAL ALTERNATIVE SERVICES AS A CONDITION OF USING THE PRIVATELY OWNED LANDFILLS WITHIN THEIR COUNTIES, AND

WHEREAS, THE NEW COUNTY SOLID WASTE PLAN PROVIDES FOR ADEQUATE SOLID WASTE DISPOSAL CAPACITY WELL THROUGH THE NEXT 80 YEARS MEETING THE REQUIREMENTS OF PART 115 OF NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT CRYSTAL LAKE TOWNSHIP HEREBY SUPPORTS A SOLID WASTE PLAN ESTABLISHING THE LEGAL FRAMEWORK TO CREATE THE REQUIRED IMPLEMENTATION MEASURES AND ORDINANCES ETC., TO PROVIDE FOR COMPETITIVE PRICING AND ADEQUATE SERVICE TO THE CITIZENS OF BENZIE COUNTY FOR SOLID WASTE DISPOSAL AS WELL AS DISPOSAL ALTERNATIVES TO SECURE LONG-TERM DISPOSAL CAPACITY AND CONSERVE LANDFILL SPACE OVER THE NEXT 10 YEARS AND FARTHER INTO THE FUTURE AS NECESSARY.

RESOLUTION BY: BARTON SECONDED BY: PARSONS

ROLL CALL OF VOTES: LOWRY-YES; PARSONS-YES; BARTON-YES; NIELSEN-YES; WALTON-YES.

ADOPTED JANUARY 4,2000

Helen Lowry
HELEN LOWRY, CLERK
CRYSTAL LAKE TOWNSHIP

RESOLUTION
SOLID WASTE PROGRAM

WHEREAS, continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, the recent merger of Waste Management, Inc with USA Waste, Inc has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, the solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, the mergers have eliminated competition for waste services including but not limited to landfills, recycling, hauling, etc in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, the only way to counter this large international mega-company is on a regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages, and

WHEREAS, the Intercounty Agreements between Leelanau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their counties, and

WHEREAS, the County will provide such disposal alternative services at a cost of $10 00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan and increasing recycling locations, and

WHEREAS, the new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P A 451,

NOW BE IT RESOLVED THAT the Township of Gilmore hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc , to provide for competitive pricing and adequate service to the citizens of Benzie County for solid waste disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next ten years and farther into the future as necessary

Motion by McDONNELL supported by BOWER

Yeas 5 Nays _____ Absent_____

I, Sharyn Bower, Clerk of Gilmore Township do hereby certify this to be a true and accurate copy of a resolution passed by the Trustees of the Township of Gilmore at a regular meeting on March 6, 2000

Sharyn Bower

Sharyn Bower, Township Clerk

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT

MAR 08 2000

SOLID WASTE PLAN RESOLUTION Adopted 1/3/2000

RESOLUTION

WHEREAS, HOMESTEAD TWP. (city, village, or township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, HOMESTEAD TWP. (city, village, or township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties

banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10 00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT HOMESTEAD TWP. (City, Village, Or Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary

The foregoing resolution offered by Board Member Dallas Smith and supported by Board Member Bill Armstrong.

Upon roll call vote, the following voted:
Aye: Jean Rosa, Shelley Rosa, Dallas Smith, Bill Armstrong and Anita Armstrong.
Nay: None

The Clerk declared this resolution adopted.

Anita M. Armstrong, Clerk of Homestead Township, dated Jan. 3, 2000.

CERTIFICATE:

I, Anita M. Armstrong, the duly elected and acting Clerk of Homestead Township, at the regular meeting of said Board held on January 3, 2000 at which meeting a quorum was present, by a roll call vote of said members as herein before set forth; that said resolution was ordered to take immediate effect.

Anita M Armstrong
Homestead Township Clerk
Benzie County, Michigan

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT
JAN 1 3 2000

HOMESTEAD TOWNSHIP
P O. Box 315
11508 Honor Highway
Honor, MI 49640
Phone (231) 325-6772 FAX: 231 325-4175

January 4, 2000

Mr David A Neiger
Benzie County Planning Department
Benzie Court House
Beulah, MI 49617

Dear Mr Neiger:

First we want to thank you for coming to our December Township Board Meeting and explaining the new Solid Waste Management Plan to the Board and general public We certainly appreciate all the efforts put forth by you and your committee to develop this plan

To follow up on this, the Homestead Township Board passed this resolution at the January Board meeting We are enclosing a copy of the resolution for your records

Again many thanks

Sincerely,

Anita M. Armstrong

Anita M Armstrong, Clerk
Homestead Township

Enclosure - Resolution

WHEREAS, The Intercounty Agreements between Leelanau and Manistee Counties specify Benzie County shall provide solid waste disposal alternative service as a condition of using the privately owned landfills within their counties, and

WHEREAS, The county will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collections in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT Inland Township hereby supports the Count Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and farther into the future as necessary.

The foregoing resolution was offered by Board member M. Gray and seconded by Board Member J. Deemer
Upon roll call vote, the following voted:
Ayes: M. Gray, J. Deemer, P. Beechraft, G. Wilson, Z. Gray
Nay: none
Absent: none

The Clerk declared the resolution adopted.
Julia Deemer, Clerk of Inland Township, dated 12-13-99

CERTIFICATE:
I, Julia Deemer, the duly elected and acting clerk of Inland Township at the regular meeting of said board held on December 13, 1999 at which meeting a quorum was present, by a roll call vote of said members as herein set forth; that said resolution was ordered to take immediate effect.
Julia Deemer, Inland Township Clerk, Benzie County, Michigan

RESOLUTION

WHEREAS, Joyfield Twp. (city, village, or township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, Joyfield Twp. (city, village, or township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT Joyfield Twp. (City, Village, Or Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary.

LAKE TOWNSHIP

5153 Scenic Hwy.
Honor, Michigan 49640
(616) 325-5202

RESOLUTION

WHEREAS, LAKE (~~city~~, ~~village~~, ~~or~~ township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, LAKE (~~city~~, ~~village~~, ~~or~~ township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties

banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P A. 451,

NOW BE IT RESOLVED THAT LAKE (~~City~~, ~~Village~~, ~~Or~~ Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary.

CATTON / WEBBER

William L. Robinson — SUPERVISOR

James T. Catton — TREASURER

Marshall E. Morris — CLERK

Mary Louise McMillan — TRUSTEE

James F. Webber — TRUSTEE

Approved - 12-2-99

5 VOTES TO 0

Marshall E. Morris - Clerk

REGULAR MONTHLY MEETING, DECEMBER 2, 1999

I Call to order by Chairman Robinson at 7:30 P.M.

II Pledge of Allegiance was given by all those in attendance.

III Roll Call: Webber, McMillan, Catton, Robinson and Morris.

IV Minutes of the 11-4-99 meeting were read by the clerk. Accepted as read.

V Treasurer's report was presented by James Catton.

Cash Balance as of November 4, 1999	$81,370.36
Revenues received as of December 2, 1999	6,891.88
Less Disbursements as of December 2, 1999	11,193.56
CASH BALANCE AS OF DECEMBER 2, 1999	$77,068.68

Checking Account	$ 60.79
Money Market Account	57,007.89
Certificate of Deposit	20,000.00
TOTAL	$77,068.68

Fund 101: General Fund	$62,068.68
Fund 294: Budget Stabilization Fund	15,000.00
TOTAL	$77,068.68

DETAILS OF REVENUE

R2385: Memo to Clerk-Transfer MM to General Checking	(11,193.56)
R2386: Donald Swartz-Land Use Permit/Lot Split Fee	50.00
R2387: State of Michigan-State Revenue Sharing	6,330.00
R2388: Honor State Bank-Interest on MM Acct.	151.88
R2389: Don Swartz-Land Use Permit	60.00
R2390: Don Swartz-Land Use Permit/Lot Split	275.00
R2391: Marshall Morris-Park Fund Donation	25.00
TOTAL	$ 6,891.88

Motion to approve Treasurer's report as presented by Webber/McMillan.

VI Public Comment on Agenda - None.

VII Correspondence

A. Incoming

1) The Board voted unanimously to approve the "Solid Waste Disposal [illegible] upon motion by Catton/Webber. This resolution [illegible] Dave Nelson.

2) A letter of resignation by Dorothy Smith from the Planning and Zoning Commission was accepted with regrets by the Board.

3) A letter received from Bart Stupak relative to the ongoing parking problem on M-22 at Riverside and Birch Trail was read. A solution still pending.

B. Outgoing

1) It was noted that a letter to Jim Lyons was sent acknowledging his resignation.

VIII New Business

1) Robert Blank and Preston Dilts were appointed by Bill Robinson to replace Jim Lyons and Dorothy Smith on the Planning and Zoning Commission. The Board voted unanimously to the Robert Blank appointment replacing Jim Lyons upon motion by Catton/McMillan, his term will expire 3-31-2001.

Preston Dilts will replace Dorothy Smith on the Planning and Zoning Commission with his term expiring 3-31-2000. Mr.Dilts was unanimously received by the Board upon motion by Catton/ Webber.

Don Swartz will include both of these men in upcoming training programs.

2) The following budget transfers are required to insure all funds are covered through this fiscal year.

1) Transfer $1400 from Fund 890 Contingency to Fund 861 Pensions upon motion by Catton/Morris.

2) Transfer $500 from Fund 890 Contingency to Fund 751 Twp.Park upon motion by Catton/Morris.

New Budget Figures

Fund 890 Contingency	$1,100
Fund 861 Pension	$6,900
Fund 751 Twp. Park	$7,000

IX Committee Reports-Public Input and General Discussion
The dead tree limbs on Deadstream Road have been removed.
The Park Service would like to straighten the curve on M-22 at Trails End Road - good thought.

X Motion to approve Check #7464 thru Check #7493 in the sum of $14,650.12 for the purpose of paying the Township Accounts. Catton/McMillan. All Ayes.

XI Adjourn 8:08 P.M.

THOSE IN ATTENDANCE: Joan Webber, Cindy Iukens, Joan Lichty, Ann and Jerry Grobe, Janice Hanrath, Dick and Marge Schlames, Bob and Dotty Blank, Bill McMillan, David and Jane Lean and Don Swartz.

Respectfully Submitted:
Marshall L. Morris

#00-01-01

PLATTE TOWNSHIP
BENZIE COUNTY
HONOR MICHIGAN 49640

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT
JAN 1 0 2000

RESOLUTION

WHEREAS, Platte Township (city, village, or township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, Platte Township (city, village, or township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties

banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT Platte Township (City, Village, Or Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary.

Clarence E Davis
Clarence Davis, Supervisor

Jan Tennant
Jan Tennant, Clerk

Richard Payment
Richard Payment, Trustee

William Ely, Treasurer

Maynard Howe, Trustee
ABSENT

January 4, 2000

FEB 1

RESOLUTION

WHEREAS, **Weldon Township** (city, village, or township), Benzie County, has been involved in Solid Waste Planning since 1972 and actively involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, **Weldon Township** (city, village, or township) *will benefit from the multi-jurisdictional and* competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan under their ownership, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied, now known as Shoreline Waste and United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, These mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County or the Township will provide comparable disposal alternative services in Year 2000 and expand services, to include households hazardous waste services, a composting plan, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A 451,

NOW BE IT RESOLVED THAT **The Weldon Township Board** hereby adopts the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives thereby securing the required long-term disposal capacity and conserving landfill space over the next 10 years and well into the future

Passed by Weldon Township Board Dec. 14, 1999

Julia E. McDonald, Clerk

Dean A. Rhodes, Supervisor

RESOLUTION

WHEREAS, THE VILLAGE OF BENZONIA, Benzie County, has been involved in Solid Waste Planning since 1971 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, THE VILLAGE OF BENZONIA has benefited from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, the recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority of all privately owned landfills in Northern Michigan and

WHEREAS, the solid waste companies operating in Northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste, United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, the mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in Northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity and

WHEREAS, the only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages,

WHEREAS, the Intercounty Agreements between Leelanau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, the County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, the new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 PS 451.

NOW BE IT RESOLVED THAT THE VILLAGE OF BENZONIA whereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances, etc. to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10years and further into the future as necessary.

Dated: December 6, 1999

Vicki Rankin

Vicki Rankin, Village Clerk

RESOLUTION

WHEREAS, VILLAGE OF BEULAH (city, village, or township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, VILLAGE OF BEULAH (city, village, or township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A 451,

NOW BE IT RESOLVED THAT VILLAGE OF BEULAH (City, Village, Or Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary.

MOTION PASSED AT OUR REGULAR COUNCIL MEETING OF FEBRUARY 10, 2000.

All Ayes: Trustee Stone, President Pro-Tem Baltazar, Trustee Evitts and Trustee Malecki

James Baltazar
James Baltazar
President Pro-Tem President
2-11-200

Maxine M. Hansen
Maxine M. Hansen
Clerk
2-11-2000

Village Office
151 Pearson Street • Elberta, MI 49628-0008
Phone: (231)352-7201 • Fax: (231)352-4033

RESOLUTION
SOLID WASTE PROGRAM

WHEREAS, the Village of Elberta has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, the Village of Elberta has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, the recent merger of Waste Management, Inc with USA Waste, Inc has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, the solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, the mergers have eliminated competition for waste services including but not limited to landfills, recycling, hauling, etc in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, the only way to counter this large international mega-company is on a regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages, and

WHEREAS, the Intercounty Agreements between Leelanau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their counties, and

WHEREAS, the County will provide such disposal alternative services at a cost of $10 00 per

household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan and increasing recycling locations, and

WHEREAS, the new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P A 451,

NOW BE IT RESOLVED THAT the Village of Elberta hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc , to provide for competitive pricing and adequate service to the citizens of Benzie County for solid waste disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next ten years and farther into the future as necessary

Motion by Hendershott supported by D.Jenks

Yeas 7 Nays 0 Absent 0

I, Sharyn Bower, Clerk of the Village of Elberta do hereby certify this to be a true and accurate copy of a resolution passed by the Trustees of the Village of Elberta at a regular meeting on December 16, 1999

Sharyn Bower

Sharyn Bower, Village Clerk

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT
DEC 2 0 1999

Number 124-99

RESOLUTION

At a regular meeting of the Village of Honor
(Special/Regular)

called to order by Nettie Bellay on December 8, 1999 at 7:00 PM

Moved by Kelly Stein and supported by Sophia Zych

NOW BE IT RESOLVED THAT Honor (Village) hereby supports the County Solid Waste Plan establishingthe legal framework to create the required implementation measures and ordinances, etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-tern disposal capacity and conserve landfill space over the next 10 years and farther into the future as necessary.

to be considered for approval
(approval/disapproval)

Approval		Disapproval	
Yeas:	6	Yeas:	0
Nays:	0	Nays:	0
Absent:	0	Absent:	0

It is the consensus of this legislative body that the application be recommended (recommended) or _____ (not recommended)

State of Michigan)
County of Benzie)

I hereby certify that the foregoing is a true and complete copy of a resolution offered and adopted by The Honor Village Council at a regular (regular/special) meeting held on the 8th day of December 1999 (date).

(signed) Dianna Snyder
(village clerk)

10922 Platte St. Box 95 Honor, Mi. 49640

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT

DEC 22 1999

JAN 2

VILLAGE OF LAKE ANN
SOLID WASTE PLAN RESOLUTION 00-01

WHEREAS, Lake Ann Village, Benzie County, has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, Lake Ann Village has benefited from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan under their ownership, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc., in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties banding together on a multi-jurisdictional basis to gain pricing and service advantages, and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County or the Township will provide such disposal alternative services at a cost of $10 00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new county Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of part 115 of NREPA 1994 P A 451,

NOW BE IT RESOLVED THAT Lake Ann Village hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measurers and ordinances etc , to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and farther into the future as necessary

VILLAGE OF LAKE ANN
RESOLUTION 00-01

The foregoing resolution was offered by Frost, and seconded by Knauss:

AYES: 6
NAYS: 0
ABSENT: 1
MOTION CARRIED

The Clerk declared the resolution adopted

Catherine Werts, Clerk of Lake Ann Village, dated January 4, 2000

CERTIFICATE:

I, Catherine Werts, Clerk of the Village of Lake Ann, hereby certify that the foregoing resolution was adopted at the regular meeting of the Village Council held on January 4, 2000, at which meeting a quorum was present

Catherine Werts
Catherine Werts
Lake Ann Village Clerk
Benzie County, Michigan

Planning

VILLAGE OF THOMPSONVILLE
Regular Council Meeting Minutes
Monday, November 8, 1999

Meeting called to order at 7:07p m, by President Wayne Nordbeck

Present: Dean Rhodes, Mike MacGirr Joyce MacGirr, Wayne Nordbeck, Richard Drapor, Greg Nordbeck Mike Orsini.

Absent: Rob Laffleur, Ed Courtade.

Guests: Jeff Schwartz, Anthony Cicchelli, Rick Doehring, Dennis Smith. Jim MacGirr,

Minutes: Motion by Rhodes to accept minutes as read, seconded by MacGirr. Motion carried

Motion by Orsini to have Wayne Nordbeck sign the lease for NPI, seconded by MacGirr. Motion carried.

Denny Smith requests stop signs instead of yield signs on Beecher Street

Jim MacGirr was approved to apply for a new Tanker for the Fire Department

Treasurer's Report: Were handed out to the council members

Motion by MacGirr to have the lady come down from Grayling to help set up the new accounting program, seconded by Orsini. Motion carried.

Zoning: 1 Land Use Permit issued.

Motion by MacGirr authorizing the Village President to sign the ammended contract as read for the Village Airport, seconded by Rhodes. Motion carried.

Motion by MacGirr to adopt the resolution on Solid Waste as read, seconded by Rhodes. Motion carried.

Bills:

AGA Gas	$8.28	DeVries Fire	$102.75
Honor Bldg. Supply	$8.99	Cellular One	$45.85
Blarney Castle Oil	$104.60	Parr	$165.00
Regional Fire Center	$572.00	Fuelman	$48.32
Ron Brown & Sons	$58.50	Copemish Market	$20.08
Ace Telephone	$122.37	AT&T	$43.14
Cherryland	$739.83	Holton's L P Gas	$185.10
Sue Besey	$150.00	Tele Rad	$92.74
Debra Franke	$130.00		

Motion by Orsini to pay the bills, seconded by MacGirr. Motion carried.

Motion by MacGirr to adjourn seconded by Orsini. Motion carried

Respectfully submitted,

Greg Nordbeck, Clerk

RECEIVED
BENZIE COUNTY
PLANNING DEPARTMENT

JAN 1 2 2[illegible]

RESOLUTION

WHEREAS, CITY OF FRANKFORT (city, village, or township) Benzie County has been involved in Solid Waste Planning since 1972 and involved in managing recycling and other solid waste alternatives programs since 1989, and

WHEREAS, CITY OF FRANKFORT (city, village, or township) has benefitted from the multi-jurisdictional and competitively negotiated and provided disposal alternatives program, and

WHEREAS, Continued competition in the solid waste industry on the regional level is critical to maintaining a cost-competitive environment and providing options for choosing solid waste service providers, on both a countywide and an individual level, and

WHEREAS, The recent merger of Waste Management, Inc. with USA Waste, Inc. has consolidated all of the larger haulers and the vast majority all privately owned landfills in northern Michigan, and

WHEREAS, The solid waste companies operating in northern Michigan currently known as BFI merged with Allied which is now known as Shoreline Waste. United Waste Systems and then USA Waste became one under Waste Management while City Environmental Services and Northern A-1 remain as individual companies, and

WHEREAS, The mergers have eliminated competition for waste services including but not limited to Landfills, recycling, hauling, etc. in northern Michigan, and

WHEREAS, Waste Management now owns roughly 45% of the landfills and 60% of the states solid waste disposal capacity, and

WHEREAS, The only way to counter this large international mega-company is on a Regional scale by several municipalities or more appropriately counties

banding together on a multi-jurisdictional basis to gain pricing and service advantages , and

WHEREAS, The Intercounty Agreements between Leelenau and Manistee Counties specify that Benzie County shall provide solid waste disposal alternative services as a condition of using the privately owned landfills within their Counties, and

WHEREAS, The County will provide such disposal alternative services at a cost of $10.00 per household per participating municipality in Year 2000 and also expand services, by increasing household hazardous waste collection in Benzie County, by providing an organized composting plan, and increasing recycling locations, and

WHEREAS, The new County Solid Waste Plan provides for adequate solid waste disposal capacity well through the next 80 years meeting the requirements of Part 115 of NREPA 1994 P.A. 451,

NOW BE IT RESOLVED THAT CITY OF FRANKFORT (City, Village, Or Township) hereby supports the County Solid Waste Plan establishing the legal framework to create the required implementation measures and ordinances etc., to provide for competitive pricing and adequate service to the Citizens of Benzie County for Solid Waste Disposal as well as disposal alternatives to secure long-term disposal capacity and conserve landfill space over the next 10 years and father into the future as necessary.

I HEREBY CERTIFY THE FOREGOING CONSTITUTES A TRUE AND COMPLETE COPY OF A RESOLUTION ADOPTED BY THE FRANKFORT CITY COUNCIL AT A REGULAR MEETING HELD ON DECEMBER 20, 1999.

Kimberley A. Wiles

KIMBERLEY A. WILES, CITY CLERK

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. Norm Emory, Waste Management, Inc.
2. Alan Vigland, Village of Benzonia
3. Tod Harlan, Allied Disposal
4. Mike Pomper, Cedar Disposal, Inc.

One representative from an industrial waste generator:

1. Jim Brian, Smeltzer Orchard Co.

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

1. Mary Pitcher, Benzie County Soil Conservation District
2. Timothy Young, Northern Michigan Environmental Action Council

One representative from County government.

1. Andrew Nester, Benzie County Solid Waste Management Board

One representative from township government:

1. Jim Sheets, Benzonia Township Board of Trustees

One representative from city government:

1. Peter Sandman, City of Frankfort

One representative from the regional solid waste planning agency:

1. Frank Walterhouse, Regional Solid Waste Planning Agency

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

1. Betsy Evans
2. Raquell Huddleston
3. Harlan Reichle

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) Designate Solid Waste Plan Implementation Agency	1999
2) Designate Implementation Oversight Committee	1999
3) Develop/Adopt Implementation Action Plan	1999
4) Draft/Adopt Intergovernmental Agreements/Ordinance/Rules/Regs	1999
5) Preliminary Program Specifications for Planned Programs	1999
6) Establish Budgets for Planned Programs	1999
7) Finalize Upgrade in Funding Structure and Enforcement Mechanisms	1999
8) Contract for Recycling Processing Capacity	1999/2000
9) Initiate all Outreach/Education Programs	1999/2000
10) Procure all Other System Improvements	1999/2000
11) Final Implementation of Funding Mechanism Upgrade	1999/2000
12) Continued Evaluation of Need for Transfer Facility	2000-2008
13) Develop Transfer Facility if Needed	2000-2008
14) Preliminary Program Specifications for Planned Ph II Programs	2002-2003
15) Establish Budgets for Planned Phase II Programs	2002-2003
16) Finalize Any Upgrades to Funding Structure and Mechanisms	2002-2003
17) Initiate all Phase II outreach/education programs	2003-2008
18) Procure all other Phase II system improvements	2003-2008
19) Data Tracking to Assess Program Performance	Annual/Ongoing
20) 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.

Letters from Shoreline Waste Services (Manistee) and Glen's Landfill (Leelanau) attached.

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 Manistee and Leelanau Counties are attached.

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: Acceptance of Responsibilities

A letter from Benzie Lakeshore Enterprises concerning operation of its recycling facility is included.

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ATTACHMENT A

RESOLUTIONS

(NOT APPLICABLE)

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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	1.22
Lake Ann village	257	259	262	257	269	317	319	322	273	271	266	264	278
Balance of Almira township	1629	1644	1659	1629	1703	2011	2026	2040	1732	1717	1688	1673	1763
Benzonia village	543	548	552	543	567	670	675	680	577	572	562	557	587
Beulah village	514	519	523	514	537	634	639	644	546	542	532	528	556
Balance of Benzonia township	2033	2051	2070	2033	2125	2509	2527	2546	2161	2143	2106	2088	2199
Blaine township	561	567	572	561	587	693	698	703	597	592	582	577	607
Thompsonville village (pt.)	162	163	165	162	169	200	201	203	172	171	168	166	175
Balance of Colfax township	391	395	398	391	409	483	487	490	416	413	406	402	423
Crystal lake township	856	863	871	856	894	1056	1064	1071	909	902	886	879	926
Frankfort city	1897	1914	1932	1897	1983	2342	2359	2376	2017	2000	1966	1949	2053
Elberta village	625	631	636	625	653	772	777	783	665	659	648	642	676
Balance of Gilmore township	420	423	427	420	439	518	522	526	446	442	435	431	454
Honor village	390	393	397	390	407	481	484	488	414	411	404	400	422
Balance of Homestead township	1567	1581	1595	1567	1637	1934	1948	1962	1665	1651	1623	1609	1695
Inland township	1452	1466	1479	1452	1518	1793	1806	1819	1544	1531	1505	1492	1571
Joyfield township	830	838	845	830	867	1025	1032	1039	882	875	860	853	898
Lake township	673	679	685	673	704	831	837	843	716	710	697	691	728
Platte township	336	339	342	336	351	415	418	421	357	354	348	345	364
Thmpsonville village (pt.)	401	405	408	401	419	495	499	502	426	423	416	412	434
Balance of Weldon township	202	204	206	202	211	249	251	253	215	213	209	207	219
Benzie County Total	15740	15882	16023	15740	16449	19427	19568	19710	16732	16591	16307	16165	17028

1996 Estimate Waste Generation, tons	mult.*	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total, tpy
Lake Ann village	2.0	8	7	18	8	8	10	10	10	8	8	8	8	*111*
Balance of Almira township	2.0	51	46	51	49	53	60	63	63	52	53	51	52	*644*
Benzonia village	2.0	17	15	17	16	18	20	21	21	17	18	17	17	*214*
Beulah village	2.0	16	15	16	15	17	19	20	20	16	17	16	16	*203*
Balance of Benzonia township	2.0	63	57	64	61	66	75	78	79	65	66	63	65	*803*
Blaine township	2.0	17	16	18	17	18	21	22	22	18	18	17	18	*222*
Thompsonville village (pt.)	2.0	5	5	5	5	5	6	6	6	5	5	5	5	*64*
Balance of Colfax township	2.0	12	11	12	12	13	14	15	15	12	13	12	12	*155*
Crystal lake township	2.0	27	24	27	26	28	32	33	33	27	28	27	27	*338*
Frankfort city	2.6	76	70	78	74	80	91	95	96	79	81	77	79	*974*
Elberta village	2.0	19	18	20	19	20	23	24	24	20	20	19	20	*247*
Balance of Gilmore township	2.0	13	12	13	13	14	16	16	16	13	14	13	13	*166*
Honor village	2.0	12	11	12	12	13	14	15	15	12	13	12	12	*154*
Balance of Homestead township	2.0	49	44	49	47	51	58	60	61	50	51	49	50	*619*
Inland township	2.0	45	41	46	44	47	54	56	56	46	47	45	46	*574*
Joyfield township	2.0	26	23	26	25	27	31	32	32	26	27	26	26	*328*
Lake township	2.0	21	19	21	20	22	25	26	26	21	22	21	21	*266*
Platte township	2.0	10	10	11	10	11	12	13	13	11	11	10	11	*133*
Thmpsonville village (pt.)	2.0	12	11	13	12	13	15	15	16	13	13	12	13	*158*
Balance of Weldon township	2.0	6	6	6	6	7	7	8	8	6	7	6	6	*80*
Benzie County Total	2.0	*506*	*461*	*524*	*489*	*528*	*604*	*629*	*633*	*520*	*533*	*507*	*519*	*6453*

*Waste Gen. Multiplier is presently 2.0 pounds per person per day for rural areas, 2.6 pppd for urban areas.

Permanent Population of Benzie County

Municipality	1990 pop	90-96 change	96/90 ratio	annual growth	1998 lin	2003 lin	2008 lin	98 projected	03 projected	08 projected
Lake Ann village	219	15	1.0685	1.0107	238	251	265	231	230	229
Balance of Almira township	1230	215	1.1748	1.0261	1512	1720	1956	1468	1575	1689
Benzonia village	449	42	1.0935	1.0144	503	541	581	489	495	502
Beulah village	421	43	1.1021	1.0157	477	515	557	463	472	481
Balance of Benzonia township	1535	268	1.1746	1.0261	1886	2145	2440	1831	1964	2107
Blaine township	424	74	1.1745	1.0261	521	592	674	506	543	582
Thompsonville village (pt.)	120	23	1.1917	1.0285	150	173	199	146	158	172
Balance of Colfax township	295	52	1.1763	1.0263	363	414	471	353	379	407
Crystal lake township	759	27	1.0356	1.0056	794	816	839	771	747	725
Frankfort city	1546	165	1.1067	1.0164	1760	1909	2070	1709	1748	1788
Elberta village	478	78	1.1632	1.0245	580	655	739	563	599	638
Balance of Gilmore township	316	56	1.1772	1.0264	389	444	506	378	406	437
Honor village	292	53	1.1815	1.0270	361	413	472	351	378	408
Balance of Homestead township	1185	205	1.1730	1.0259	1454	1651	1876	1411	1512	1620
Inland township	1096	192	1.1752	1.0262	1348	1533	1745	1309	1404	1507
Joyfield township	626	110	1.1757	1.0262	770	877	998	748	803	862
Lake township	508	89	1.1752	1.0262	625	711	809	607	651	698
Platte township	253	45	1.1779	1.0265	312	356	405	303	326	350
Thmpsonville village (pt.)	296	58	1.1959	1.0290	372	429	496	361	393	428
Balance of Weldon township	152	27	1.1776	1.0265	187	214	243	182	196	210
Benzie County Total	*12200*	*1837*	*23.0708*	*20.4602*	*14603*	*16359*	*18341*	***14180***	***14980***	***15840***
Michigan DMB Estimates					14180	14980	15840			

ATTACHMENT B

LISTED CAPACITY

Shoreline Waste Services/Allied Waste Services, Inc. (Manistee County)

Glen's Landfill/Waste Management, Inc (Leelanau County)

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Shoreline
Waste Services

July 29, 1999

Mr. David A. Neiger
Benzie County Planning Department
P.O. Box 398
Beulah, MI 49617

Dear Mr. Neiger

Benzie County is updating the Benzie County *Solid Waste Plan*. In this *Plan* the DEQ requires all landfills listed in the *Plan* to provide a letter of available capacity and the landfill's willingness to service Benzie County's solid waste disposal needs. The following statement would be adequate to meet the DEQ requirements:

The Manistee County Landfill, Inc., currently has 12 years capacity and is willing to service Benzie County's solid waste disposal needs.

Thank you for your time and efforts in this matter.

Sincerely

Todd M. Harland
General Manager

lv

3890 Camp Rd. ◆ Manistee, MI 49660 ◆ (616) 723-4940 ◆ (616) 723-4105 FAX

GLEN'S SANITARY LANDFILL, INC.
A WASTE MANAGEMENT COMPANY

518 East Traverse Hwy
Maple City, MI 49664
(616) 228-5196
(616) 228-5991 Fax

Dave Neiger
Benzie County Planning Department
P O Box 398
Beulah, MI 49617

10 / 4 / 99

Dear Mr. Neiger:

Per the requirements of the DEQ County solid waste management plans "Plan Format" Section III-28 "siting review procedures" and section D-3 "Listed capacity" Glen's Sanitary Landfill submits the following.

Under Glen's existing 133 acre DEQ expansion permit, and subsequent licensing program, we can supply your county with 10 years of airspace / disposal.

Please feel free call with any questions. (231) 228-6725

Sincerely,

Dave Barron
Site Manager

cc: File

ATTACHMENT C

MAPS

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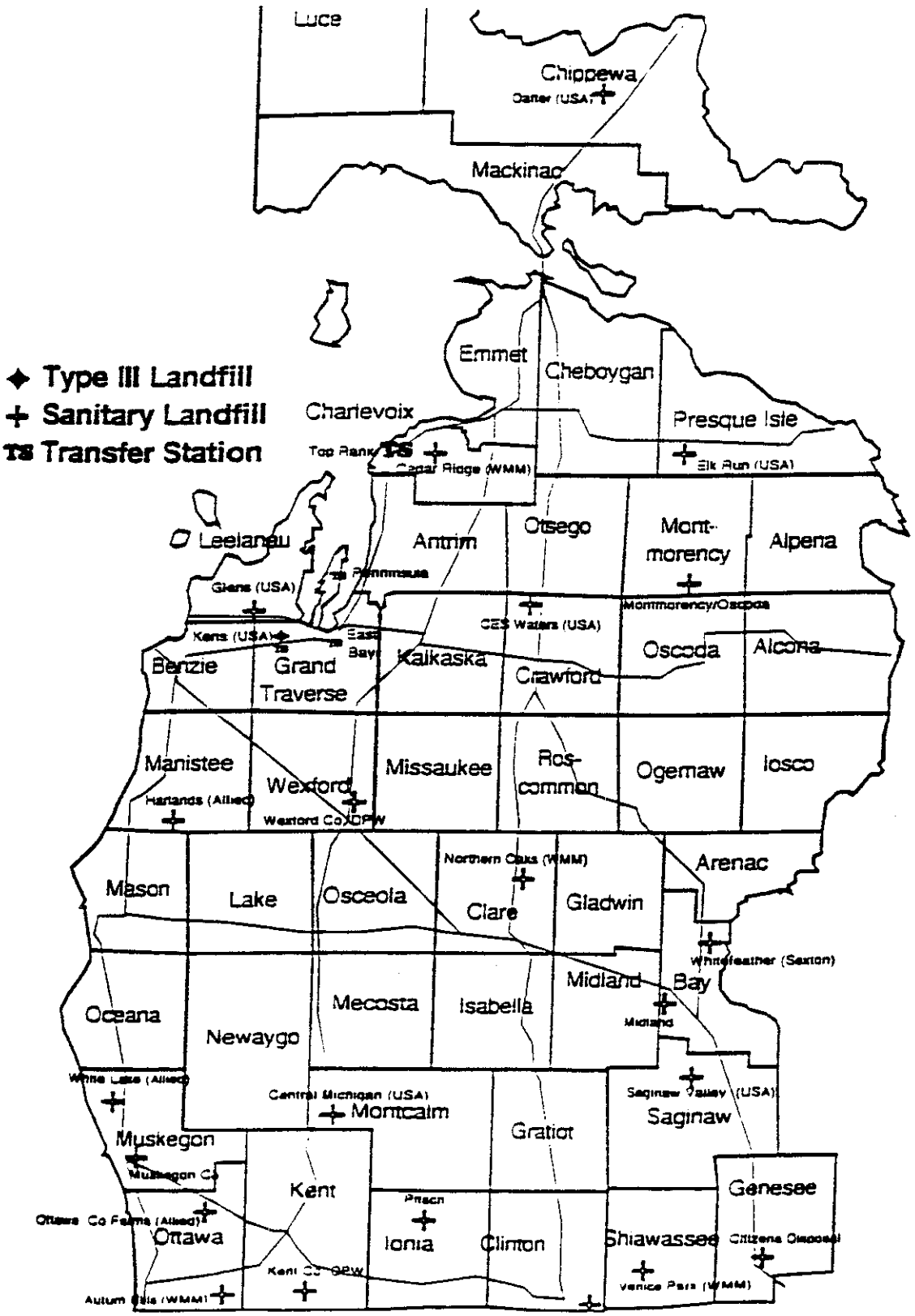
Landfills and Transfer Stations* Potentially Serving Benzie County

*=Type A Transfer Stations



ATTACHMENT D

INTER-COUNTY AGREEMENTS

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Solid Waste Reciprocal Agreement

WHEREAS, Benzie County, as well as all counties in the State of Michigan, are required by Part 115 of Act 451, P.A. 1994 and Act 641, P.A. 1978, as amended, to update the current Solid Waste Plan, and;

WHEREAS, Benzie County and Leelanau County are responsible for the final deposition of all waste generated in their respective counties, and;

WHEREAS, Part 115 of Act 451, P.A. 1994, and Act 641, P.A. 1978, as amended, require that both the receiving and the sending county's solid waste management plan include the mechanism for a signed agreement between the two counties prior to any shipment of solid waste,

THEREFORE, BE IT RESOLVED, THAT Benzie County will agree to accept solid waste from Leelanau County so long as Benzie County has an approved solid waste disposal site that is open for public use.

BE IT FURTHER RESOLVED, THAT Leelanau County will agree to accept solid waste from Benzie County so long as an approved solid waste disposal site exists in Leelanau County that is open for public use.

BE IT FURTHER RESOLVED, THAT Benzie County agrees to establish and maintain a program for diverting a portion of its waste from landfill facilities and send its ANNUAL PROJECT UPDATE AND PROGRESS REPORT to Leelanau County. The waste diversion program must be acceptable to Leelanau County and shall contain, at a minimum, the following four (4) items:

1. Public Education Program

Benzie County shall participate in a program to inform the public of proper disposal methods for various wastes so that no improper wastes are disposed of in the landfill. The educational program shall also inform the public as to the importance of recycling and how the public can participate.

2. Recycling Program

The Benzie County recycling program shall include a sufficient number of drop-off sites or sufficient curbside recycling to provide the public with an opportunity to participate in the program.

3. Composting Program

Benzie County shall establish or participate in a composting program to prevent yard waste and other organic wastes from being disposed of in the landfill.

4. Household and Agricultural Hazardous Waste Collection

Benzie County shall conduct or participate in at least one (1) household and agricultural hazardous waste collection day per year. The collected wastes shall be disposed of at a facility licensed to receive that type of waste.

BE IT FURTHER RESPOLVED, THAT BENZIE County agrees to implement a waste diversion program, as outlined above, within one (1) year of the adoption of the Leelanau County Solid Waste Management Plan 1998 Update.

BE IT FURTHER RESOLVED, THAT this agreement is valid until the next revision of the Leelanau County Solid Waste Plan is approved. However, either county may give one-hundred eighty (180) days written notice of intent to terminate this agreement to allow the other party time to develop another source for solid waste disposal. Each county will save and hold the other county harmless from any and all liability actions arising from the disposal of solid waste.

FOR BENZIE COUNTY

Mary Pete

Chairman
Benzie County
Board of Commissioners

May 3, 1999
Date

FOR LEELANAU COUNTY

Jean I. Watkoski

Jean I. Watkoski, Chairperson
Leelanau County
Board of Commissioners

5-4-99
Date

MANISTEE AND BENZIE COUNTIES
MEMORANDUM OF UNDERSTANDING FOR A
RECIPROCAL AGREEMENT ON SOLID WASTE
FOR DAY-TO-DAY FLOW OF SOLID WASTE

Both Manistee County and Benzie County are responsible for the collection and disposal of their own respective solid waste, and both are Michigan counties subject to the regulations and planning requirements of part 115 of P.A. 451 of 1994, as amended, being the Solid Waste Management Part of the Michigan Natural Resources and Environmental Protection Act, M.C.L. 324.11501 *et. seq.* (formerly P.A. 641 of 1978, as amended, (M.C.L. 299.401 *et. seq.*, the Solid Waste Management Act)), hereafter the "Act".

The Act, and administrative rules promulgated pursuant to the Act, requires both the receiving and sending county's solid waste management plan include statements as to where solid waste will be sent to and/or received from, before wastes can be transported between counties.

The *Manistee County Solid Waste Plan* of 1998/9, page 59 provides for a mechanism to enter into reciprocal agreements such as this one:

The *Benzie County Solid Waste Plan* of 1998/9, page 33 provides for a mechanism to enter into reciprocal agreements such as this one:

A. Manistee County will agree to accept solid waste from Benzie County, for primary day-to-day and/or standby backup disposal in solid waste facilities in Manistee County so long as:
   1. The solid waste facility(ies) is(are) open to the public; and
   2. Users are not to be subject to discrimination in service or tipping fee published price structure (which can include volume discount and special handling)

B. Benzie County will agree to accept solid waste from Manistee County for primary day-to-day and/or standby backup disposal in solid waste facilities in Benzie County so long as:
   1. The solid waste facility(ies) is(are) open to the public; and
   2. Users are not to be subject to discrimination in service or tipping fee published price structure (which can include volume discount and special handling)

C. Benzie County may negotiate with Manistee County Landfill, Inc., (owned by Allied Waste Systems, Inc.) for certain capacity guarantee, so long as the result of the negotiation does not reduce the available disposal capacity for Manistee County (excluding solid waste from Tondu Energy Systems, Inc. (40,000 tons per year) and Tenneco Packaging Inc. (58,000 to 127,200 tons per year)) below 25,000 tons per year at the current plan approved Manistee County Landfill, Inc., until year 2086.

This agreement may be terminated by either county upon receipt of a mutually agreeable notice adequate to provide time for another method of primary (permanent) disposal and/or standby disposal. If adequate notice is not mutually agreed to, then adequate notice shall be two years

Both counties agree to assume their own and separate liability, and assume financial responsibility for payment of any damages, fines, etc., at their own cost, as would exist if this agreement had never been entered into.

FOR MANISTEE COUNTY

_____

Mrs. Sharlene Wild, Chair
Manistee County Board of
Commissioners

_____

Mrs. Marilyn Kliber, County Clerk

Date: _____

FOR BENZIE COUNTY

Mary Pletcher Jr

Mr , Chair
Benzie County Board of
Commissioners

Jan Bruce

Mr , County Clerk

Date: Feb. 4-2000

ATTACHMENT E

DETAILED POPULATION DATA

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2003 Estimated Seasonal Population	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Lake Ann village	255	258	260	255	267	315	318	320	272	269	265	262	276
Balance of Almira township	1748	1764	1779	1748	1827	2157	2173	2189	1858	1842	1811	1795	1891
Benzonia village	550	555	560	550	574	678	683	688	584	579	569	565	595
Beulah village	524	529	533	524	547	647	651	656	557	552	543	538	567
Balance of Benzonia township	2181	2200	2220	2181	2279	2691	2711	2731	2318	2298	2259	2239	2359
Blaine township	602	608	613	602	629	743	749	754	640	635	624	619	652
Thompsonville village (pt.)	176	177	179	176	184	217	218	220	187	185	182	180	190
Balance of Colfax township	420	424	428	420	439	519	523	526	447	443	435	432	455
Crystal lake township	830	837	845	830	867	1024	1031	1039	882	875	860	852	898
Frankfort city	1940	1958	1975	1940	2028	2395	2412	2430	2063	2045	2010	1993	2099
Elberta village	665	671	677	665	695	821	827	833	707	701	689	683	720
Balance of Gilmore township	451	455	459	451	471	557	561	565	479	475	467	463	488
Honor village	420	424	427	420	439	518	522	526	446	443	435	431	454
Balance of Homestead township	1679	1694	1709	1679	1754	2072	2087	2102	1784	1769	1739	1724	1816
Inland township	1559	1573	1587	1559	1629	1924	1938	1952	1657	1643	1615	1601	1686
Joyfield township	891	899	907	891	931	1100	1108	1116	947	939	923	915	964
Lake township	722	729	735	722	755	892	898	905	768	761	748	742	782
Platte township	361	365	368	361	378	446	449	453	384	381	375	371	391
Thmpsonville village (pt.)	437	440	444	437	456	539	543	547	464	460	452	448	472
Balance of Weldon township	217	219	221	217	227	268	270	272	231	229	225	223	235
Benzie County Total	*16628*	*16778*	*16927*	*16628*	*17377*	*20523*	*20672*	*20822*	*17676*	*17527*	*17227*	*17077*	*17988*

2003 Estimate Waste Generation, tons	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total, tpy
Lake Ann village	8	7	8	8	8	9	10	10	8	8	8	8	*101*
Balance of Almira township	54	49	55	52	57	65	67	68	56	57	54	56	*691*
Benzonia village	17	16	17	16	18	20	21	21	18	18	17	18	*217*
Beulah village	16	15	17	16	17	19	20	20	17	17	16	17	*207*
Balance of Benzonia township	68	62	69	65	71	81	84	85	70	71	68	69	*861*
Blaine township	19	17	19	18	20	22	23	23	19	20	19	19	*238*
Thompsonville village (pt.)	5	5	6	5	6	7	7	7	6	6	5	6	*69*
Balance of Colfax township	13	12	13	13	14	16	16	16	13	14	13	13	*166*
Crystal lake township	26	23	26	25	27	31	32	32	26	27	26	26	*328*
Frankfort city	78	71	80	76	82	93	97	98	80	82	78	80	*997*
Elberta village	21	19	21	20	22	25	26	26	21	22	21	21	*263*
Balance of Gilmore township	14	13	14	14	15	17	17	18	14	15	14	14	*178*
Honor village	13	12	13	13	14	16	16	16	13	14	13	13	*166*
Balance of Homestead township	52	47	53	50	54	62	65	65	54	55	52	53	*663*
Inland township	48	44	49	47	50	58	60	61	50	51	48	50	*616*
Joyfield township	28	25	28	27	29	33	34	35	28	29	28	28	*352*
Lake township	22	20	23	22	23	27	28	28	23	24	22	23	*285*
Platte township	11	10	11	11	12	13	14	14	12	12	11	12	*143*
Thmpsonville village (pt.)	14	12	14	13	14	16	17	17	14	14	14	14	*172*
Balance of Weldon township	7	6	7	7	7	8	8	8	7	7	7	7	*86*
Benzie County Total	*534*	*486*	*543*	*516*	*558*	*637*	*663*	*668*	*549*	*562*	*535*	*548*	*6799*

*Waste Gen. Multiplier is presently 2.0 pounds per person per day for rural areas, 2.6 pppd for urban areas.

2008 Estimated Seasonal Population	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Avg.
Lake Ann village	254	256	259	254	266	314	316	318	270	268	263	261	275
Balance of Almira township	1875	1892	1909	1875	1960	2315	2331	2348	1994	1977	1943	1926	2029
Benzonia village	557	562	567	557	582	687	692	697	592	587	577	572	602
Beulah village	534	539	544	534	558	659	664	669	568	563	553	548	578
Balance of Benzonia township	2339	2360	2381	2339	2444	2887	2908	2929	2487	2466	2423	2402	2531
Blaine township	646	652	658	646	675	797	803	809	687	681	669	663	699
Thompsonville village (pt.)	191	192	194	191	199	235	237	239	203	201	197	196	206
Balance of Colfax township	451	455	460	451	472	557	561	565	480	476	468	464	488
Crystal lake township	805	812	819	805	841	993	1000	1008	855	848	834	826	871
Frankfort city	1985	2003	2021	1985	2074	2450	2468	2485	2110	2092	2056	2038	2147
Elberta village	708	715	721	708	740	874	880	887	753	746	734	727	766
Balance of Gilmore township	485	489	493	485	506	598	603	607	515	511	502	498	524
Honor village	453	457	461	453	473	559	563	567	481	477	469	465	490
Balance of Homestead township	1799	1815	1831	1799	1880	2220	2236	2252	1912	1896	1864	1847	1946
Inland township	1673	1688	1703	1673	1748	2064	2079	2094	1778	1763	1733	1718	1809
Joyfield township	957	965	974	957	1000	1181	1189	1198	1017	1008	991	982	1035
Lake township	775	782	789	775	810	957	964	971	824	817	803	796	839
Platte township	389	392	396	389	406	480	483	487	413	410	403	399	420
Thmpsonville village (pt.)	475	479	484	475	496	586	591	595	505	501	492	488	514
Balance of Weldon township	233	235	238	233	244	288	290	292	248	246	242	240	252
Benzie County Total	*17582*	*17741*	*17899*	*17582*	*18374*	*21701*	*21859*	*22018*	*18691*	*18533*	*18216*	*18058*	*19021*

2008 Estimate Waste Generation, tons	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total, tpy
Lake Ann village	8	7	8	8	8	9	10	10	8	8	8	8	*100*
Balance of Almira township	58	53	59	56	61	69	72	73	60	61	58	60	*741*
Benzonia village	17	16	18	17	18	21	21	22	18	18	17	18	*220*
Beulah village	17	15	17	16	17	20	21	21	17	17	17	17	*211*
Balance of Benzonia township	73	66	74	70	76	87	90	91	75	76	73	74	*924*
Blaine township	20	18	20	19	21	24	25	25	21	21	20	21	*255*
Thompsonville village (pt.)	6	5	6	6	6	7	7	7	6	6	6	6	*75*
Balance of Colfax township	14	13	14	14	15	17	17	18	14	15	14	14	*178*
Crystal lake township	25	23	25	24	26	30	31	31	26	26	25	26	*318*
Frankfort city	80	73	81	77	84	96	99	100	82	84	80	82	*1019*
Elberta village	22	20	22	21	23	26	27	27	23	23	22	23	*280*
Balance of Gilmore township	15	14	15	15	16	18	19	19	15	16	15	15	*191*
Honor village	14	13	14	14	15	17	17	18	14	15	14	14	*179*
Balance of Homestead township	56	51	57	54	58	67	69	70	57	59	56	57	*711*
Inland township	52	47	53	50	54	62	64	65	53	55	52	53	*661*
Joyfield township	30	27	30	29	31	35	37	37	31	31	30	30	*378*
Lake township	24	22	24	23	25	29	30	30	25	25	24	25	*306*
Platte township	12	11	12	12	13	14	15	15	12	13	12	12	*154*
Thmpsonville village (pt.)	15	13	15	14	15	18	18	18	15	16	15	15	*188*
Balance of Weldon township	7	7	7	7	8	9	9	9	7	8	7	7	*92*
Benzie County Total	*564*	*514*	*574*	*545*	*589*	*673*	*701*	*706*	*580*	*594*	*565*	*579*	*7182*

*Waste Gen. Multiplier is presently 2.0 pounds per person per day for rural areas, 2.6 pppd for urban areas.

Benzie County Residential Waste Projections Summary

Municipality	1998	2003	2008
Lake Ann village	111	101	100
Balance of Almira township	644	691	741
Benzonia village	214	217	220
Beulah village	203	207	211
Balance of Benzonia township	803	861	924
Blaine township	222	238	255
Thompsonville village (pt.)	64	69	75
Balance of Colfax township	155	166	178
Crystal lake township	338	328	318
Frankfort city	974	997	1019
Elberta village	247	263	280
Balance of Gilmore township	166	178	191
Honor village	154	166	179
Balance of Homestead township	619	663	711
Inland township	574	616	661
Joyfield township	328	352	378
Lake township	266	285	306
Platte township	133	143	154
Thmpsonville village (pt.)	158	172	188
Balance of Weldon township	80	86	92
Benzie County Total	***6453***	***6799***	***7182***
	tons/year	*tons/year*	*tons/year*

ATTACHMENT F

SPECIAL CONDITIONS

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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

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 Benzie 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

* 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 Benzie County Solid Waste Management System, Ordinance and Intergovernmental Agreements consistent with the Plan's Enforceable Program. 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 any solid waste facilities provided for in the Selected Alternative 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.

** Condition for Current Exports:

For export to these Counties to be consistent with import restrictions imposed by those counties then recycling, composting and household hazardous waste programs must be in place in Benzie County as specified in the Reciprocal Agreement shown in the Attachments section.

Section III Table 2-B Attachments Section

CONDITIONS FOR 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 Benzie County Solid Waste Management System, Ordinance and Intergovernmental Agreements consistent with the Plan's Enforceable Program. 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 any solid waste facilities provided for in the Selected Alternative 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.

** Condition for Future Exports:

For export to these Counties to be consistent with import restrictions imposed by those counties then recycling, composting and household hazardous waste programs must be in place in Benzie County as specified in the Reciprocal Agreement shown in the Attachments section.

ATTACHMENT G

ACCEPTANCE OF RESPONSIBILITIES

Letter from Lakeshore Enterprises

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BENZIE COUNTY PLANNING DEPARTMENT
COMPHEHENSIVE PLANNING • ZONING ADMINISTRATION
SOIL EROSION • SEDIMENTATION CONTROL
RECREATION DEPARTMENT • PLANNING COMMISSION
ZONING BOARD OF APPEALS

DAVID A. NEIGER — **DIRECTOR**
DON SWARTZ — **ZONING ADMINISTRATOR**

A COMMUNITY OF VISION
PRESERVING THE PAST . . . . PLANNING THE FUTURE

June 8, 2000

JUN 1 2 2000

Stan Idziak
Michigan Department of Environmental Quality
Hollister Building
P.O. Box 30241
Lansing, MI 48909-7741

RE: Requested documents for Benzie County Solid Waste Plan Approval by DEQ

Dear Mr. Iziak:

The following are the above referenced documents you requested:

1. The notarized notices of Public Review **(enclosed)** and the Public Hearing **(enclosed)** on the Solid Waste Plan. I should note that all units of government were solicited for their comments through the MTA, meetings with the municipal boards, and individuals in addition to general public for their comments on the Plan. The Public Review process extended from March 22, 1999, through June 20, 1999.

2. Upon completion of the Public Review time period the Public Hearing **(minutes enclosed)** was held on August 30, 1999. The SWAC approved with changes to the Plan based on comments during the Public Hearing. The approved changes were reviewed and approved for forwarding to the County Board of Commissioners at the September 28, 1999, meeting **(minutes enclosed)** of the SWAC.

3. The Benzie County Board of Commissioners approved the Plan on October 19, 1999, at its regular meeting. The copy of those **minutes are also enclosed**.

Please contact me with any questions at 231-882-9674.

Sincerely,

David A. Neiger
Director

enclosures

P.O. BOX 398 • BEULAH, MI 49617 • 231-882-9674 • (800) 387-0217

STATE OF MICHIGAN, } ss
County of Benzie

Roland Halliday

being duly sworn, says: I am the Editor of THE BENZIE COUNTY RECORD PATRIOT, a newspaper published and circulated in said county. The annexed is a printed copy of a notice which was published in said paper for one week being on the seventeenth day of March A.D 19 99

Subscribed and sworn to before me this 17th day of March A.D. 19 99

Notary Public, Benzie County, Michigan
My commission expires 5/4/02

NOTICE OF PUBLIC REVIEW

TO ALL INTERESTED PERSONS IN THE COUNTY OF BENZIE: TAKE NOTICE The Benzie County Solid Waste Plan Development Committee has completed the Draft Solid Waste Plan in accordance with State law. The Draft Solid Waste Plan will be available for review at the Benzie County Planning Department, Benzie County Government Center, Room 204, 448 Court Place, Beulah, MI 49617 during regular business hours Monday through Friday beginning March 22, 1999 and ending June 20, 1999.

YOUR COMMENTS ON THIS PLAN ARE IMPORTANT and may be made in person, by counsel, or in writing to the Planning Department at P.O. Box 398, Beulah, MI 49617.

Christi Flynn
Recording Secretary

3/17 + aff

TO THE CITIZENS OF BENZIE COUNTY: The Benzie County Solid Waste Plan Development Committee will hold a public hearing in Room 206 of the Government Center, 448 Court Pl., Beulah, MI 49617, August 30, 1999 at 7:00 p.m. to obtain public input on the proposed Benzie County Solid Waste Plan.

Your comments are important and may be made in person or by counsel at the hearing or in writing to the Planning Department prior to the hearing and they will become part of the hearing record. Written comments will be accepted until 12:00 p.m. on the day of the hearing and should be sent to Benzie County Planning Dept., P.O. Box 398, Beulah, MI 49617.

A copy of the draft plan is available and may be inspected at the Planning Dept. weekdays from 8:00 a.m. to 11:30 a.m. and 1 to 4:30 p.m. For further information, contact the Planning Dept. at (616) 882-9674.

Christi Flynn
Recording Secretary
Benzie County Solid Waste
Plan Development Committee

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county. The annexed is a printed copy of a notice which was published in said paper for one week being on the eighteenth day of August A.D 19 99

Subscribed and sworn to before me this 18th day of August A.D. 19 99

Notary Public, Benzie County, Michigan
My commission expires 5/4/02

SOLID WASTE PLAN DEVELOPMENT COMMITTEE

Norm Emory, U.S. Waste
Alan Vigland, Village of Benzonia
Mary Pitcher, Benzie County Soil Conservation District
Frank Walterhouse, Regional Solid Waste Planning Agency
Andrew W. Nester, Benzie Co.
Jim Sheets Supervisor, Benzonia Township Board of Trustees
Betsy Evans

Tod Harlan, Allied Waste
Mike Pomper, Cedar Disposal Inc.
Timothy Young, NMEAC
Peter Sandman, City of Frankfort
Jim Brian, CEO, Smeltzer Orchard Co.
Raquell Huddleston
Harlan Reichle

AUGUST 30, 1999
BENZIE COUNTY GOVERNMENT CENTER
COMMISSIONERS' ROOM
MINUTES

MEMBERS PRESENT: Mary Pitcher, Andrew W. Nester, Jim Sheets, Harlan Reichle, Timothy Young
MEMBERS EXCUSED: Frank Walterhouse, Norm Emory, Jim Brian
MEMBERS ABSENT: Alan Vigland, Betsy Evans, Tod Harlan, Peter Sandman, Raquell Huddleston, Mike Pomper
OTHERS PRESENT: Jim Frey, RRSI; Dave Neiger and Chris Flynn, Staff, Bill Johnson, Benzie County Planning Commission; Art Jeannot and Ray Kadlec, Benzie County Solid Waste Management Advisory Board; Judy Cunningham and Ingemar Johansson, Lakeshore Enterprises and several members of the community.

I. Call to Order: The meeting was called to order at 7:03 p.m. by Co-Chairman, Jim Sheets.

II. Approval of the Agenda: Timothy Young moved to approve the agenda as presented, supported by Andrew W. Nester. Ayes: Pitcher, Nester, Sheets, Reichle, Young Excused: Walterhouse, Emory, Brian Absent: Vigland, Evans, Harlan, Sandman, Huddleston, Pomper Nays: None Motion Carried.

III. Approval of the Minutes: Andrew W. Nester moved to approve the minutes of the August 2, 1999 meeting, supported by Harlan Reichle Ayes: Pitcher, Nester, Sheets, Reichle, Young Excused: Walterhouse, Emory, Brian Absent: Vigland, Evans, Harlan, Sandman, Huddleston, Pomper Nays: None Motion Carried

IV Public Hearing - Benzie County Solid Waste Plan

A. Presentation of Plan Jim Frey, RRSI introduced himself and explained why a Solid Waste Plan is important and the MDEQ requirements. He briefly reviewed the approval process from beginning (gathering the information needed) to end (approval by the State of Michigan), and commented on the amount of work that had gone into the plan. He reviewed the Plan, explaining the different sections, and why the information was formatted as it is (MDEQ requirements). Most of the presentation focused on the "Selected Alternative" portion of the plan; and what the committee felt would be in the best interests of the County. Most of the alternative consists of expanding the recycling system already in place, with the addition of encouraging composting, more drop off sites, more curbside recycling, and expanding to include commercial recycling.

Jim Frey reviewed the funding mechanisms already in place, PA 138 for recycling and "user fee's in the form of the required "buy the bag" for trash (except where trash removal is still provided by the Village of Benzonia). Jim Frey explained the process of creating a Board of Public Works, which could allow for more programs to be offered, more funding options and the possibility of more intergovernmental cooperation. He described the Plan's time line for implementation of the proposed programs. He briefly reviewed the changes that had been made at the Aug. 2, 1999 committee meeting.

B. Public Input

1. Proponents: Stewart Walker commented on the possibility of the MDEQ raising the fees for pumping liquid waste and asked that the committee contact the MDEQ in support of not raising the fees. There was some discussion on this issue. It was explained that this committee was not the proper forum. Ingemar Johansson, representing Lakeshore Enterprises and Benzie County Recyclers stated his board supported the plan. He commented that the Recyclers hoped to expand their services to other recyclables and want to have the County become a partner in their program (the County would still pay for the recycling, but citizens would have the use of the Recyclers''s drop offs). There was discussion of a pick up service for cardboard (commercial) with the comment that it was difficult for the Recyclers to provide, as their volunteer groups have different ages and that many of them can not provide drivers. It was stated that the Recyclers were working on this problem. There was discussion of eventually providing manned trailers for the paper drop offs. There was some concern that the program could be in trouble if the volunteers quit volunteering (with the example given of a previous volunteer recycling effort in the City of Frankfort).

2. Opponents None

There was discussion on siting and/or constructing a landfill in the County now, while there may still be land available to do so. The difficulty of finding land is a major problem (which will only get worse) and it was thought that it would be a better option to work in conjunction with several other counties which would create a more viable (cost wise) operation. It was commented that we are exploring this option.

There was discussion on what could happen if 2/3 of the units of government in the County do not support the plan. Jim Frey stated that the State could then re-write the plan for the County, which would probably include requiring a landfill as well as other requirements that we won't like.

There was a brief comment that the State was anticipating receiving suits from the Michigan Waste Haulers Association because some counties have made their plans so stringent.

There was discussion on how to control the use of the County's services by citizens in units of government that don't support the Plan. Jim Frey commented that the Plan allows the County to develop an program, where the easiest option is for all units to participate, but if a unit decides to not participate, they would have to development their own program to meet the County standards. There was discussion on creating on ordinance that would require this, and also set parameters for enforcing compliance. It was stated that if a unit of government does not meet the standards set in the County Plan, the MDEQ considers the County out of compliance with State law and in jeopardy of losing their land fill availability, and can take steps to force the County into compliance.

3. Rebuttal None

Co-Chairman Sheets closed the Public Hearing at 8:29 p.m.

C. Committee Discussion: There was some discussion on the amount of waste controlled by Waste Management Inc. It is the largest company in the U.S. dealing with waste disposal. There was discussion on the disposal of items such as motor oil and tires. Jim Frey commented that there could be language in the plan to address this. These are items not collected as Household Hazardous Waste. There was discussion of the problems such waste create. It was decided to change the language in the plan to include the collection of Household Hazardous Waste in Benzie County. There was brief discussion on the training (limited) volunteers would need to offer this service.

Andrew W. Nester moved to direct the consultant to prepare the 2nd draft of the Benzie County Solid Waste Plan, incorporating the comments made at this public hearing, supported by Harlan Reichle, to be returned to the County for review by this committee. Ayes: Pitcher, Nester, Sheets, Reichle, Young Excused: Walterhouse, Emory, Brian Absent: Vigland, Evans, Harlan, Sandman, Huddleston Nays: None Motion Carried

The next meeting date will be Sept. 21, 1999 at 6 p.m. with Sept. 28, 1999 available if necessary. Jim Sheets stated that the next Michigan Township Association meeting will be Oct. 19, 1999 at 7:00 p.m at the Benzonia Township Hall and it was decided to present the plan there. It was decided to have a draft resolution ready for the Townships by this time.

The meeting was adjourned at 9:02 p.m. by Chairman Sheets.

Respectfully Submitted:

Jim Sheets

Jim Sheets, Co-Chairman

Christi Flynn

Christi Flynn, Recording Secretary chris: c:\wpmyfiles\slwplco\agu30.min

BENZIE COUNTY SOLID WASTE PLAN
PLANNING COMMITTEE

Pat Altenberger, U.S. Waste
Alan Vigland, Village of Benzonia
Mary Pitcher, Benzie County Soil Conservation District,
Frank Walterhouse, Regional Solid Waste Planning Agency
Andrew W. Nester, Benzie Co. Soild Waste Management Board
Jim Sheets, Supervisor, Benzonia Township Board of Trustees
Betsy Evans
Harlan Reichle

Tod Harlan, Allied Waste
Mike Pomper, Cedar Disposal Inc
Timothy Young, Northeren Michigan Environmental Action Committee
Peter Sandman, City of Frankfort
Jim Brian, CEO, Smeltzer Orchard Co.
Raquell Huddleston

AUGUST 30, 1999
7:00 P.M.
PUBLIC HEARING
BOARD OF COMMISSIONER'S ROOM, BENZIE COUNTY GOVERNMENT CENTER

AGENDA

I. CALL THE MEETING TO ORDER
II. *APPROVAL OF THE AGENDA
III. *APPROVAL OF THE MINUTES
IV. PUBLIC HEARING - BENZIE COUNTY SOLID WASTE PLAN
  A. PRESENTATION OF PLAN
  B. PUBLIC INPUT
    1. PROPONENTS
    2. OPPONENTS
    3. REBUTTAL
  C. COMMITTEE DISCUSSION
  D. *DECISION AND ORDER

V. PUBLIC INPUT - ITEMS ON THE AGENDA
VI. OLD BUSINESS
  A.
VII. NEW BUSINESS
  A.
VIII. CORRESPONDENCE
IX. OTHER
X. PUBLIC INPUT ON OR OFF THE AGENDA
XI. ADJOURN

I do hereby acknowledge that this Notice was placed in a conspicuous place on August 27 1999, pursuant to Public Act 267 of 1976, MCLA 15.261 et seq; MSA 4.1800(11) et seq; of the Open Meetings Act.

Christi V. Flynn
Christi V. Flynn

Subscribed and sworn to before me, this 29th day of August, 1999.

Karen M. Scarbrough
, Notary Public
County of Benzie, State of Michigan
My Commission Expires: 4/22/2002

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BENZIE COUNTY SOLID WASTE PLAN
PLANNING COMMITTEE

Norm Emory U.S. Waste
Alan Vigland, Village of Benzonia
Mary Pitcher, Benzie County Soil Conservation District,
Frank Walterhouse, Regional Solid Waste Planning Agency
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Harlan Reichle

Tod Harlan, Allied Waste
Mike Pomper, Cedar Disposal Inc.
Timothy Young, NMEAC
Betsy Evans
Peter Sandman, City of Frankfort
Jim Brian, CEO, Smeltzer Orchard Co.
Raquell Huddleston

SEPTEMBER 28, 1999 6:00 P.M.
BOARD OF COMMISSIONER'S ROOM
BENZIE COUNTY GOVERNMENT CENTER
MINUTES

MEMBERS PRESENT: Mary Pitcher, Frank Walterhouse, Jim Sheets, Harlan Reichle, Mike Pomper, Raquell Huddleston
MEMBERS EXCUSED: Andrew W. Nester, Timothy Young
ABSENT: Norm Emory, Alan Vigland, Tod Harlan, Betsy Evans, Peter Sandman, Jim Brian
OTHERS PRESENT: David Neiger and Chris Flynn, staff

I CALL THE MEETING TO ORDER The meeting was called to order at 6:10 p.m. by Co-Chairman Sheets

II *APPROVAL OF THE AGENDA Harlan Reichle moved to approve the agenda as submitted, supported by Mary Pitcher Ayes: Pitcher, Walterhouse, Sheets, Reichle, Pomper, Huddleston Excused: Nester, Young Absent: Emory, Vigland, Harlan, Evans, Sandman, Brian Nays: None Motion Carried

III *APPROVAL OF THE MINUTES OF THE AUGUST 30,1 999 MEETING Harlan Reichle moved to approve the minutes of the August 30, 1999 meeting, supported by Mary Pitcher. Ayes: Pitcher, Walterhouse, Sheets, Reichle, Pomper, Huddleston Excused: Nester, Young Absent: Emory, Vigland, Harlan, Evans, Sandman, Brian Nays: None Motion Carried

IV. PUBLIC INPUT - ITEMS ON THE AGENDA None

V OLD BUSINESS

***A.Changes to the Draft Plan - Errata Sheet** There was some discussion on previously discussed issues: import and exporting waste, financial figures (RRSI is calculating and will forward them to us) and the fact that we will implement the plan as we are financially able. Dave Neiger reported that he had an estimate of $10,000.00 to implement a Benzie County HHHW program with a site in the County, but that we would still share with Grand Traverse Co. Mike Pomper reported that Waste Management's cost for recycling in the coming year was 50% higher than last year, and was still the lowest bid they received. There was some discussion on the possibility of other private firms trying to become established in Benzie County. There was discussion on the programs in place in townships that do not participate in the County program. It was suggested improving education, to encourage more people to participate, and to let people know where they can recycle (such as those townships that do not participate in the County Plan.) There was some discussion on the continuing process, what happens next? Dave Neiger commented that the plan would go to the Board of Commissioners for adoption and then to the

townships for adoption. Jim Sheets invited all the committee members to the next MTA meeting.

There was a brief discussion of the transition from the plan committee to the implementation committee and the structure of the implementation committee.

Harlan Reichle moved to approve the changes to the plan as set forth in the Errata sheet and to forward the plan as corrected to the Board of Commissioners with a recommendation that they adopt the plan, supported by Mary Pitcher.

Mike Pomper continued to question the financial information.

Ayes: Pitcher, Walterhouse, Sheets, Reichle, Pomper, Huddleston Excused: Nester, Young Absent: Emory, Vigland, Harlan, Evans, Sandman, Brian Nays: None Motion Carried

VI. NEW BUSINESS

A. Dave Neiger reported that funding had been added to the budget for the consultant to develop estimated costs for implementing the plan. He stated that our current contract with Waste Management expires December 31, 1999 but that it had been agreed to extend the contract month to month. He commented also that funds had been allocated for the County to provide composting bins to the Citizens of Benzie County at a very reasonable cost.

VII. CORRESPONDENCE None

VIII. OTHER None

IX PUBLIC INPUT ON OR OFF THE AGENDA Ray Kadlec that the contractors don't care how long the landfills last, they only care about their tipping fees and that recycling is the most important part of the program. He commented that he is concerned that the County is asking citizens to recycle and to pay for it. Frank Walterhouse commented that when the plan is presented to the Commissioners we will need to have the figures available. Dave Neiger responded that the first year the County will not provide much more service, and will only increase as the number of participants and the funding increase. Harlan Reichle commented that we need to put teeth into enforcement.

X. ADJOURN The meeting was ajourned at 7:15 by Co-Chairman Sheets

Respectfully Submitted:

_____

Jim Sheets, Co-Chairman

_____

Chris Flynn, Recording Secretary

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BENZIE COUNTY SOLID WASTE PLAN
PLANNING COMMITTEE

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Mike Pomper, Cedar Disposal Inc
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Peter Sandman, City of Frankfort
Jim Brian, CEO, Smeltzer Orchard Co.
Raquell Huddleston

SEPTEMBER 28, 1999
BOARD OF COMMISSIONER'S ROOM
BENZIE COUNTY GOVERNMENT CENTER
6:00 P.M.
AGENDA

I CALL THE MEETING TO ORDER
II. *APPROVAL OF THE AGENDA
III. *APPROVAL OF THE MINUTES OF THE AUGUST 30,1 999 MEETING
IV. PUBLIC INPUT - ITEMS ON THE AGENDA
V. OLD BUSINESS
*A. **Changes to the Draft Plan - Erratta Sheet**
VI. NEW BUSINESS
A.
B.
C.

VII. CORRESPONDENCE
VIII. OTHER
IX. PUBLIC INPUT ON OR OFF THE AGENDA
X. ADJOURN
*Action Items

I do hereby acknowledge that this Notice was placed in a conspicuous place on September 27, 1999, pursuant to Public Act 267 of 1976, MCLA 15.261 et seq; MSA 4.1800(11) et seq; of the Open Meetings Act.

Christi V. Flynn

Christi V. Flynn

Subscribed and sworn to before me, this 27th day of September, 1999.

Karen M. Scarbrough
, Notary Public
County of Benzie, State of Michigan
My Commission Expires: 4/22/2002

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ERRATA SHEET
September 16, 1999

Benzie County Solid Waste Management Plan

Corrections/Updates to 3/16/99 DRAFT for Public Comment

The following describes changes made to the Benzie County Solid Waste Management Plan since the 3/16/99 version released for public comment. The majority of changes are in response to a Department of Environmental Quality' memo outlining its comments in review of the Plan.

¶ means Paragraph
Underline indicates added language
~~Cross-out indicates deleted language~~

Page I-3, Page III-28, ¶'s titled **Clean Community**
Change to read ,
Household hazardous waste collection services would be provided at a location within the county...

Page I-5, Page III-29, ¶'s titled **Clean Community**
Change to read ,
Household hazardous waste collection services would be provided including collection of agricultural pesticides and herbicides -- all coordinated from a single permanent drop-off site located within the county.

Page I-4, Page III-28, ¶'s titled **Material Transfer and Processing**
Change to read ,
Arrangements would be made to provide access to a material recovery facility (MRF) or facilities to service all recycling collectors in the system. These arrangements would include guarantees that sufficient capacity was available to meet the County's needs over the long term and that the facility(s) would be able to process commingled containers and commingled fibers as well as presorted recyclables like OCC.

~~Lakeshore Disposal in Manistee County remains an excellent processing option for commingled fiber, although they lack the ability to handle containers. Shoreline or USA (United) Waste are the most likely processing facilities.~~

Page III-36, 1st ¶ **Conditions for Current Exports:*
Change to read , *in the 1st ¶ under Conditions for Current Exports:*,
"If a Solid Waste Transfer Station Disposal area is developed, as described in this Plan, then export ~~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 Benzie County Solid Waste Management System~~, Ordinance and Intergovernmental Agreement~~ consistent with the Plan's Enforceable Program. Special Industrial Waste shall be

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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 facilities provided for in the Plan's Enforceable Program and then only until such time that those facilities again begin to operate.

Page III-36, 2nd ¶ **Conditions for Current Exports:*
Change to read, *in the 2nd ¶ under Conditions for Current Exports:,*
"For export to these Counties to be consistent with import restrictions imposed by those counties then recycling, composting and household hazardous waste programs must be in place in Benzie County and available to all waste generators in Benzie County as specified in the Reciprocal Agreement shown in the Attachments section.

"No waste may be exported unless the receiving county authorizes imports from Benzie County in its Plan."

Page III-38, 1st ¶ **Conditions for Future Exports:*
Change to read, *in the 1st ¶ under Conditions for Current Exports:,*
"If a Solid Waste Transfer Station Disposal area is developed, as described in this Plan, then export ~~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 Benzie County Solid Waste Management System~~, Ordinance and Intergovernmental Agreement~~ consistent with the Plan's Enforceable Program. 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 facilities provided for in the Plan's Enforceable Program and then only until such time that those facilities again begin to operate.

Page III-38, 1st ¶ **Conditions for Future Exports:*
Change to read, *in the 2nd ¶ under Conditions for Current Exports:,*
"For export to these Counties to be consistent with import restrictions imposed by those counties then recycling, composting and household hazardous waste programs must be in place in Benzie County and available to all waste generators in Benzie County as specified in the Reciprocal Agreement shown in the Attachments section.

"No waste may be exported unless the receiving county authorizes imports from Benzie County in its Plan."

Page III-57, Last ¶ **Identification of Resource Recovery Management Entities**
Change to read, *in the Last ¶ under Lakeshore Industries*
"~~Fiber~~ Recycling processing and servicing ~~coordination~~ of ~~fiber~~ recycling collection sites"

Page III-58, 2nd ¶ **Identification of Resource Recovery Management Entities**
Change to read, *in the Second ¶ under Soil Conservation District*

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"~~Fiber~~ Benzie Conservation District"

Page III-62, 2nd ¶ *Authorized Disposal Area Types*
Add *a new ¶ after 2nd ¶,*
"If circumstances require that the County has to demonstrate 66 months of disposal capacity, then the County will prepare documentation similar in content to the chart in Section III-13, Capacity Certifications, covering all available Disposal Area capacity being used by the County and available within reasonable hauling distance for use by the County as provided for in this Plan. The determination of reasonable hauling distance will assume availability of the transfer station provided for in the Plan's Enforceable Program. Available Disposal Area capacity shall be based on information on those Disposal Areas based on the DEQ's *Annual Report of Disposal Area Capacity* .

If that information is insufficient to demonstrate 66 months of Disposal Area capacity then the documentation shall be revised to include all available Disposal Area acreage identified in the respective Plans, and calculation of all available Disposal Area capacity for those Disposal Areas after providing for required buffer areas, required slopes (2 to 1) for both beneath-grade and above-grade disposal area, all required distances from ground water, compaction of in-place bank yards at 1,200 pounds per cubic yard and suitable deductions for daily cover, roads, and other site requirements (at 15% unless otherwise documented)"

Page III-63, 2nd ¶ **Exempt Facilities***
Change to read , *in the Third ¶ under Exempt Facilities*
These types of solid waste transfer facility disposal areas are still subject to the Plan's siting mechanism as provided for in this chapter, will only be considered if part of the county-sponsored transfer facility(s), yet ~~and~~ are still exempt from local zoning as stated in Part 115 of NREPA.

Page III-64, 1st ¶ *Siting Criteria and Process*
Add to chart in Section B: Application Fee
"*" to "Landfill", in chart and then add the "*" note after the chart to read "* applicable only if siting process is required to be operated due to less than 66 months of capacity as described in "Authorized Disposal Area Types" section of this Siting Review Procedure.

Page III-64,
No changes are proposed in response to comments from MDEQ since the siting process for a landfill, incinerator or processing plant could actually be initiated if less than 66 months of capacity were to be available.

Page III-72 through III-76
Delete Items H 3 and H 4 on page III-90

Add, *to the end of Item R on Page III-74 the phrase*
"Submittal of this analysis is all that is required to meet this criteria".

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Add, *to the end of Item S on Page III-76 the phrase*
"Submittal of this agreement is all that is required to meet this criteria".

Add, *after the word "agreement" in the first line of Item S on Page III-95 the phrase*
"legally declaring to the County".

Add, *to the end of Item T on Page III-76 the phrase*
"Submittal of this statement is all that is required to meet this criteria".

Add, *after the word "statement" in the first line of Item U on Page III-76 the phrase*
"legally declaring to the County".

Add, *to the end of Item U on Page III-76 the phrase*
"Submittal of this statement is all that is required to meet this criteria".

Add, *after the word "statement" in the first line of Item T on Page III-76 the phrase*
"legally declaring to the County".

Page III-77, Under Heading **Needs of the Management Component**
Add *a new Bullet #3 after Bullet #2,*

"3) Implementing an organizational mechanism that guarantees that all households and businesses within all jurisdictions in the County have access to the types of "value added" recycling programs identified above so that the County will be in compliance with the import recycling requirements of the County Plans that cover the landfills where the majority of Benzie County was is exported to, as identified in those Plans and any applicable reciprocal agreements.

Page III-78, Under Heading **Further Development of the Management Component**
Add *new Bullets #4 and #5 after Bullet #3*

"• A county program for recycling and related solid waste management services will be developed that meets the requirements of this Plan and that meets the import requirements of County Plans where landfills used by Benzie County are located.

"• Local units of government within the County will be asked to join the County Program or provide an equivalent program in terms of service type and availability.

Page III-79 *In Item N*
change item N reference from "processing facility expansions" to "recycling facility expansions".

Page III-82 *Under *Educational and Information Programs**
change reference to "DPW" to "DPW/Benzie Conservation District/Others".

Page III-101
delete the checkmark before the number "1" in the first paragraph and then delete

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the following text below it:

~~There are three 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. Many local units of government within the County have adopted ordinances that contain selected provisions covering ancillary construction details and operational aspects of any permitted facility that is sited within their respective jurisdictions. 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 these local governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan so long as they 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.~~

~~At the time of this Plan Update the following local communities had adopted applicable ordinances:~~

~~C. The Management Component of the Plan combined with the Plan's authorized Export conditions and the Plan's authorized Ordinance provisions will be carried out through the County's Solid Waste Management System including a system of intergovernmental contracts, an Ordinance, administrative rules and regulations and a supporting system of hauler licensing, facility designation agreements and service contracts and system procurement provisions. These provisions and mechanisms are considered to be consistent with the Plan and are enabled and authorized by the Plan including any further amendments to ordinances and related rules and regulations as required to implement the selected alternative which may be adopted and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan.~~

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Page III-86
Add. *at bottom of page, new ¶ reading,*
"A demonstration of available capacity for Benzie County's primary disposal needs is provided in the form of letters from two landfills (Glen's owned by WMI and Manistee County Landfill owned by Allied) as shown in Attachment B."

APPENDICES

In addition to documents already included in the Appendices section, the following additional documents will be attached:

Appendix C: Public Participation and Approval

A paragraph will be added as follows:

"A letter dated September 2, 1999 and an attached position paper was received from the law firm of Honigman, Miller, Schwartz and Cohn representing the Michigan Waste Industries Association (MWIA). The letter and position paper was a standard form document sent to many, if not all, counties preparing these solid waste plans. A number of issues of concern for MWIA regarding solid waste plans in general were raised by the written materials. None of the material specifically addressed the content of the draft Benzie County Solid Waste Management Plan. The issues raised have all been discussed by MWIA in detail with the State of Michigan Department of Environmental Quality and have as well been reviewed by the State of Michigan Office of Attorney General.

The Benzie County Solid Waste Plan and its Enforceable Plan and Program are intended to be consistent with all applicable laws of the State of Michigan. Some components of the Benzie County Solid Waste Plan and its Enforceable Plan and Program may not specifically be authorized under Part 115 of NREPA, but are not inconsistent with that act and, in fact, are authorized by other parts of Michigan statute. Benzie County has the right to amend its plan or components of its Enforceable Program, if needed, to address any future change in law, regulation or court case interpretations that may be triggered by the Michigan Waste Industries Association or its members, in order to preserve the ability of Benzie County to implement its Solid Waste Management Plan.

ATTACHMENTS

In addition to documents already included in the Attachments section, the following additional documents will be attached:

Attachment B: Listed Capacity
Letters from Glen's Landfill, Manistee Landfill and CES Waters landfills
Letters from Leelanau, Manistee and Crawford/Otsego counties

Attachment D: Intercounty Agreements
Copies of Reciprocal Agreements signed with Leelanau and Manistee counties

SEP 17 '99 08:14AM RESOURCE RECYCLING SYSTEMS P.7
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THE BENZIE COUNTY BOARD OF COMMISSIONERS
OCTOBER 19, 1999

The Benzie County Board of Commissioners met in a regular meeting on Tuesday, October 19, 1999, at 9:30 a.m. in the Commissioners Room, Government Center, Beulah, Michigan.

The meeting was called to order by Chairman Mary Pitcher.

Present were: Commissioners Andersen, Knox, Pitcher, Tanner and Walterhouse
Absent: None

A motion by Walterhouse seconded by Knox to approve the agenda as printed. Motion carried. Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Knox seconded by Andersen to approve the minutes of September 21, 1999, as amended, changing pages 5-6-7. Motion carried. Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

9:38 a.m. Public Input
Robert Garrison presented Crystal Lake Association water quality pamphlets to Comm. Tanner, Andersen, Knox and Walterhouse.

9:40 a.m. No other comments. Public Input Closed

A motion by Walterhouse seconded by Knox upon recommendation of the Finance Committee to authorize payment of the bills in accounts: 101, $49,549.70; 150, $16,711.74; 207, $789.25; 228, $3,999.46; 238, $377.00; 278, $11,277.42 and 425, $4,979.86, when funds become available. Motion carried. Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None
Bills are on file in the County Clerk's Office for public inspection.

Jean Snow and Joe Muha presented the Quality of Life statistical report.

Pat Cudney presented additional information on the Quality of Life report and the fee committee report and recommendation.

Vicki Burmeister addressed the apportionment report.

A motion by Knox seconded by Andersen to adopt the county millage Apportionment Report for 1999, authorizing the chairman to sign. Motion carried. Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Andersen, seconded by Knox to approve the recommendation of the fee committee to change the permit fees for the Zoning Board of Appeals, Soil Erosion and Control as presented, effective November 1, 1999. Motion carried. Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

Pat Cudney presented the resolution for the Betsie Valley Trailway regarding the appointment of Sean Duperron as trail manager.

A motion by Knox seconded by Andersen to adopt the resolution for the appointment of Sean Duperron as the Extension Natural Resources Agent/Betsie Valley Trailway Manager, effective November 1, 1999. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Walterhouse seconded by Knox to adopt the salary schedule for the elected officials effective January 1, 2000. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None (See Attachment)

A motion by Walterhouse seconded by Andersen to move the building department into the commissioners room effective October 22, 1999, during the remodeling of the lower level of the government center, the electrical, plumbing and assistant building inspector will work out of their home during the transition. Motion Carried: Ayes: Andersen, Knox, Pitcher Tanner and Walterhouse Nays: None

A motion by Knox seconded y Andersen to change the November 16 regular meeting date to November 23. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Knox seconded by Walterhouse to hold the November 23, meeting at the Sail Inn Restaurant. Motion Carried: Ayes: Andersen, Knox, Pitcher and Walterhouse Nays: Tanner

A motion by Knox seconded by Pitcher to have everyone pay for their own lunch at the Sail Inn Restaurant for the November 23 meeting. Motion carried: Ayes: Knox, Tanner and Pitcher Nays: Andersen and Walterhouse

Sheriff Bates presented the jail activity report; discussed the malpractice insurance for the doctor and the nurse contract with Ellen Heit.

A motion by Walterhouse seconded by Andersen to give a 60-day notice and cancel the doctor agreement with Dr. Weiss, effective January 1, 2000. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Walterhouse seconded by Knox to enter into the jail nurse contract with Ellen Hiet, authorizing the chairman to sign. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

David Neiger and Jim Sheets presented the Solid Waste plan and discusses recycling and Request for Proposals.

A motion by Walterhouse seconded by Tanner to adopt the Benzie County Solid Waste Plan as presented. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Walterhouse seconded by Knox to authorize the chairman to send a letter of appreciation to each member of the solid waste planning committee. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Knox seconded by Tanner to authorize from account 238, $5,000 to contract with Resource Recycling System Inc. effective immediately, authorizing the chairman to sign. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

Edward McIntosh addressed the Benzie Fishery Coalition meeting Thursday, October 21, 1999 at 7:00; negotiations are not going well and the tribe is planning to put gill nets in the local waters.

Comm. Walterhouse addressed the November meeting and paying of the bills.

A motion by Walterhouse seconded by Andersen due to the late meeting date in November, the Finance committee is authorized to pay the November bills for the county. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Walterhouse seconded by Andersen to authorize the transfers of funds, effective October 19, 1999. (See Attachment)
A motion by Knox seconded by Tanner to amend to approve the transfers of funds upon the recommendation of the fiance committee. Motion Carried: Ayes: Knox, Tanner and Pitcher Nays: Andersen and Walterhouse
Vote on original motion as amended: Motion Carried: Andersen, Knox, Pitcher and Tanner Nays: Walterhouse

Charles Clarke addressed the personnel committee issues.

A motion by Knox seconded by Walterhouse to set the hourly wage for the part-time clerk in the building, planning and equalization departments at $8.28 her hour, effective August 16, 1999. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A motion by Knox seconded by Andersen to lift the hiring freeze authorizing the Planning department to hire a part-time clerk at the hourly rate of $8.28 per hour. Motion Carried: Ayes: Andersen, Knox, Pitcher, Tanner and Walterhouse Nays: None

A request was received from the Commission on Aging for a part-time driver. Refereed to Personnel Committee.

Comm. Knox addressed the motion in the October meeting regarding