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

July 12, 2001

Mr. Kenneth Hulka, Chairperson
Muskegon County Board of Commissioners
990 Terrace Street
Muskegon, Michigan 49442

Dear Mr. Hulka:

The Department of Environmental Quality (DEQ) received the locally approved update to the Muskegon County Solid Waste Management Plan (Plan) on August 28, 2000. Except for the items indicated below, the Plan is approvable. As outlined in the February 15, 2001 letter to Mr. Robert J. Ribbens, Muskegon County Environmental Planner, from Ms. Lynn Dumroese, DEQ, Waste Management Division, and as confirmed in Mr. Ribbens' letter dated May 1, 2001, the DEQ makes the following modifications to the Plan:

On page 8, the facility description for the Holton Township Refuse Transfer Station indicates this facility is a licensed facility. Section 11529 of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, states this type of disposal area is not subject to the construction permit and operating license requirements. This is not a licensed facility; therefore, the check marks under the operating status column, which indicate the facility is licensed, are deleted. This comment also applies to the facility description on page 33 of the Plan.

On page 25, the Plan states the listed import authorizations allow for the import of up to a maximum of 46,000 tons per year from one or a combination of counties. This contradicts the language on page 60 under the heading entitled Import Authorizations and Limitations, which states the figure of 46,000 tons does not constitute a limit under the Plan. The landfill is owned by the Muskegon County Board of Public Works and the landfill may, at its discretion, choose not to accept waste; therefore, the 46,000-ton import limitation is not needed. Because the 46,000-ton import limit is unnecessary, the note on page 25 and references to the 46,000 tons per year import limit in Table 1-A are deleted from the Plan. Further, the language under the Import Authorizations and Limitations section on page 60 is also deleted from the Plan.

On page 27, the note at the bottom of the page states:

> Export volume is not [sic] exceed 100,000 tons of Type II waste annually to one or combination of above counties. All export authorizations are subject to annual adjustments and allowance for contract mechanism and must be approved by the Muskegon County Board of Public Works.

A formal plan amendment process is required if Muskegon County (County) intends on modifying the export volume authorizations. On pages 57-60, the Plan further discusses import/export volume authorizations. The information on these pages indicates the County only intends on setting an export limit of 100,000 tons if the County is unable to secure adequate tonnage through contracts. In order to clarify the County's intent regarding export volume limitations, the note on page 27 of the Plan is replaced with the following language, "Export authorizations are subject to the export conditions defined on pages 57-60 of the Plan."

On page 55, item number 2 states, "The applicant will then have 30 days to review the revised material and make its determination, and this determination shall be final." As written, it appears the applicant is responsible for determining consistency. The County's intent was to allow the applicant 30 days to resubmit information, and the Solid Waste Planning Committee (SWPC) shall have 30 days to make their determination of consistency. The sentence referenced above is replaced with the following sentences, "The applicant shall have 30 days to resubmit the application package. The SWPC shall then have 30 days to review the revised material and make a determination of consistency."

On page 56, criterion I states, "Facilities my [sic] only be located on property that is zoned agricultural, industrial, commercial or another designation appropriate for solid waste disposal areas." Section 11538(3) of Part 115 requires a siting mechanism not be subject to discretionary acts. The phrase "another designation appropriate for solid waste disposal areas" does not clearly define acceptable zoning designations and leaves room for discretionary interpretation; therefore, this phrase is deleted from this sentence.

On page 56, criterion J states:

> If there is no such road currently serving the site, the developer shall enter into a written agreement with the Muskegon County Road Commission to provide for upgrading and/or maintenance of the road servicing the facility. To be consistent with the Plan, the applicant must state in writing the intention to enter into such an agreement.

An agreement is a discretionary act and is not allowed under Part 115; however, requiring the applicant to submit a signed statement is objective and measurable. The County's intent was to require a signed statement, as indicated in the second

sentence. In order to alleviate any discrepancy, these sentences are replaced with the following language:

> If there is no such road currently serving the site, the developer shall submit a signed statement to the Muskegon County Road Commission to provide for upgrading and/or maintenance of the road servicing the facility.

On page 57, the sentence after criterion K begins to explain the siting requirements for a proposed Type III Landfill, transfer station, processing facility, or municipal solid waste incinerator. The County intended to have any proposed disposal facility meet all of the siting requirements on pages 55-57. Therefore, this sentence is changed to state, "In order for a proposed Type III Landfill, transfer station, processing facility, or MSW incinerator to be consistent with the Plan, the application must meet all of the siting requirements on pages 55-57."

On page 60, the Plan does not designate a responsible party for implementing and enforcing the Plan. The Plan must identify who is responsible for overall management of the Plan, and the Plan must identify some local authority that has the power to enforce the Plan, including the power to identify and bring suit for violations of the Plan. A letter dated December 12, 2000, from Mr. Ribbens, conveys Resolution Number 2000-594 dated November 14, 2000, from the Muskegon County Board of Commissioners (BOC), and indicates the BOC designates the Muskegon County Board of Public Works as the responsible party for implementation and enforcement of the Plan. In order to clarify that the Muskegon Board of Public Works is the authorized party to implement and enforce the Plan, the official copy of Resolution Number 2000-594 should be added to the Plan.

The letter dated February 15, 2001, from Ms. Dumroese, suggests a modification regarding the 100,000-ton-per-year export volume limit outlined in the Plan. This letter indicates five years of capacity has not been identified if that volume limit is in effect and only 2,683,440 cubic yards of capacity is available within the County. As explained in the letter dated May 1, 2001, from Mr. Ribbens, this export volume limit does not apply to industrial waste that can be disposed of in a Type III Landfill. Under these circumstances, five years of capacity has been identified and a modification to the export volume limit is no longer necessary.

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

By approving the Plan with modifications, the DEQ has determined that it complies with the provisions of Part 115 and the Part 115 administrative rules concerning the required content of solid waste management plans. Specifically, the DEQ has determined that the Plan identifies the enforceable mechanisms that authorize the

state, a county, a municipality, or a person to take legal action to guarantee compliance with the Plan, as required by Part 115. The Plan is enforceable, however, only to the extent the County properly implements these enforceable mechanisms under applicable enabling legislation. The Plan itself does not serve as such underlying enabling authority, and DEQ approval of the Plan neither restricts nor expands County authority to implement these enforceable mechanisms.

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

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

Sincerely,

Russell J. Harding
Director
517-373-7917

cc: Senator Leon Stille
Representative Julie Dennis
Representative Gerald Van Woerkom
Mr. Robert J. Ribbens, Muskegon County Environmental Planner
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Ms. Amy Lachance, DEQ – Grand Rapids
Ms. Rhonda Oyer Zimmerman, DEQ
Ms. Lynn Dumroese, DEQ
Muskegon County File

MUSKEGON COUNTY
MICHIGAN

990 TERRACE STREET, MUSKEGON, MICHIGAN 49442
(231) 724-6411 • FAX (231) 724-6673

DEPARTMENT OF PUBLIC WORKS

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01 May, 2001

Lynn Dumroese
Michigan Department of Environmental Quality
Solid Waste Management Unit
Waste Management Division

RE: Muskegon County Solid Waste Plan

Dear Ms. Dumroese:

Per our conversations and Email correspondence from April 16, 2001 through April 19, 2001, and via our conversation on April 25, the following is a summary of clarifications regarding the export limitations and five year demonstrated landfill capacity.

1. We based our waste generation and subsequent disposal needs on Type II waste only. For example, we estimated 260,000 tons per year of Type II waste being generated by residential and commercial sources. This is the only waste covered by the export limitation of 100,000 tons per year. All other sources of waste, including Type III wastes, are not included in this limitation.

2. Waste being landfilled from Muskegon County and reported at other landfills likely includes Type II materials such as fly ash and foundry sand which are not included in the export limitations.

3. Rather than using the standard DEQ ratio of one ton equaling three cubic yards of Type II waste, we are using a ratio of one ton equals 1.92 cubic yards compacted waste (1:1.92). This is based on our actual landfill topography surveys completed yearly (in cubic yards) and actual waste

accounted for at the gate (in tons). This compaction ratio can be clearly demonstrated. With this in mind, the plan explicitly demonstrates a five year (plus) capacity and this issue should be considered resolved (with no modifications necessary to plan).

4. It is my understanding that per your draft memo (referring to page 60 of our plan) of October 31, 2000, that we have resolved the issue of naming the Muskegon County Board of Public Works as the responsible party for implementation and enforcement of the plan (as evidenced by the Board minutes forwarded to you).

5. It is our understanding from review of this draft memo that all other changes proposed regarding the references to pages **8, 25, 27, 55, 56 and 57** of our plan are sufficient as you have proposed and should be included in final plan. This notes that any reference to any capacity or exportation limits as set forth in the plan as approved by the Muskegon County Solid Waste Planning Committee and the Muskegon County Board of Public Works and Board of Commissioners will not be changed and stand as submitted.

I sincerely hope that this will allow for the Muskegon County Solid Waste Plan to be approved promptly. If you have any further questions, please do not hesitate to contact me at 231/724-6525. Thank you.

Sincerely,

Robert J. Ribbens
Muskegon County Environmental Planner

CC: Robert L. Zettell, DPW
John Warner, DPW
Fred DeHudy, Solid Waste
Steve Corwin, Corporate Council
Solid Waste Plan File

MUSKEGON COUNTY

M I C H I G A N

990 TERRACE STREET, MUSKEGON, MICHIGAN 49442
(231) 724-6411 • FAX (231) 724-6673

DEPARTMENT OF PUBLIC WORKS

WASTE MANAGEMENT DIVISION

DEC 15 2000

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12 December, 2000

Lynn Dumroese
Solid Waste Management Unit
Waste Management Division
Michigan Department of Environmental Quality
PO BOX 30241
Lansing, MI 48909-7741

RE: Solid Waste Plan

Dear Ms. Dumroese:

Attached is an official copy of the minutes of the Muskegon County Board of Commissioners from the November 14, 2000 meeting. These minutes reflect the designation of the Muskegon County Board of Public Works as the responsibility party for implementation and enforcement of the Solid Waste Plan. If you have further questions, please contact me at 231/724-6525 or FAX at 231/724-6882 or via email at ribbensro@co.muskegon.mi.us. Thank you.

Sincerely,

Robert J. Ribbens
Environmental Planner

ATTACHMENT

CC: Robert L. Zettell

COUNTY OF MUSKEGON
CLERK'S OFFICE

SUSAN R. DORIOT
CLERK
VITAL STATISTICS
2nd FLOOR
(231) 724-6221
FAX (231) 724-6262

990 TERRACE STREET, MUSKEGON, MICHIGAN 49442

MARIANNE HATHAWAY
CHIEF DEPUTY CLERK
CIRCUIT COURT RECORDS
6th FLOOR
(231) 724-6251
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2000-594 **DESIGNATE MUSKEGON COUNTY BOARD OF PUBLIC WORKS AS THE RESPONSIBLE PARTY FOR IMPLEMENTATION, ENFORCEMENT AND MANAGEMENT OF THE MUSKEGON COUNTY SOLID WASTE PLAN**

The Board of Public Works recommends, moved by Start, supported by Gill, that the Muskegon County Board of Public Works be designated as the responsible party for implementation, enforcement and management of the Muskegon County Solid Waste Plan.

Motion Carried

I, Susan R. Doriot, Muskegon County Clerk, Muskegon, Michigan, do hereby certify that the above is a true and correct copy of a resolution adopted by the Board of Commissioners on November 14, 2000. In testimony whereof, I have hereunto set my hand and affixed the seal.

Susan R. Doriot

Susan R. Doriot,
County Clerk

MUSKEGON COUNTY
M I C H I G A N

990 TERRACE STREET, MUSKEGON, MICHIGAN 49442 • 616-724-6411
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DEPARTMENT OF PUBLIC WORKS

Robert L. Zettell, Director

PUBLIC WORKS BOARD

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AUG 2 8 2000

22 August, 2000

Michigan Department of Environmental Quality
Waste Management Division
Solid Waste Management Unit
PO BOX 30241
Lansing, MI 48909-7741

RE: Muskegon County Solid Waste Plan 1998 Update

Dear Sire or Madam:

Attached is a copy of the 1998 Update to the Muskegon County Solid Waste Plan. If you have any questions, please do not hesitate to contact me at 231/724-6525. Thank you.

Sincerely,

Robert J. Ribbens
Environmental Planner
Muskegon County DPW

ATTACHMENT

Muskegon County
Solid Waste Planning Committee

1998 Solid Waste Plan Update

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EXECUTIVE SUMMARY

Muskegon County Solid Wast Plan Update

The Muskegon County Solid Waste Planning Committee has been involved in the preparation of this five-year solid waste plan Update to the Muskegon County Solid Waste Plan as pursuant Part 115, Solid Waste Management (Part 115), of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

This plan puts forth a review of current waste disposal operations and facilities, analyzes historical, current and projected population demographics, waste generation volumes and waste diversions via recycling enterprises. Goals and objectives have been created to put in place a general policy framework in which to develop alternatives to meet current and future solid waste management issues.

Important items within this plan include:

1. Waste generation in Muskegon County is expected to rise slightly over the next five years, however, with current facilities in place, adequate hauling and disposal opportunities are adequate to handle these increases.

2. White Lake Landfill, located in Whitehall Township, has been closed and is no longer accepting Type II waste materials. In light of this, it is important to review the impact of this closure on waste management systems in Muskegon County as well as neighboring counties.

3. Muskegon County Solid Waste Facility (Type II) is now the only operating Type II landfill in Muskegon County. This facility offers a citizen drop-off area which is unique to area landfills.

4. This plan puts into place a system of limiting imports of waste into Muskegon County and also limits waste being exported from Muskegon County into other counties. This system has been put into place to further ensure adequate landfill availability and capacity.

NOTE: This plan utilizes the prescribed MDEQ format for plan layout.

01 March, 2000

Overall View of the County

Municipality	1996 Est. Population	% Land Use		% of Economic Base				
		Rural	Urban	Ag	For	Ind	Comm	Resid
Townships								
Blue Lake	1,225	95%	5%	0%	0%	0%	1%	97%
Casnovia	2,632	96%	4%	25%	0%	2%	2%	44%
Cedar Creek	3,159	94%	6%	5%	0%	0%	6%	79%
Dalton	6,286	88%	12%	0%	0%	1%	6%	87%
Egelston	8,128	75%	25%	1%	0%	6%	9%	69%
Fruitland	4,744	85%	15%	12%	0%	0%	16%	45%
Fruitport	11,959	73%	27%	2%	0%	1%	11%	74%
Holton	2,321	94%	6%	14%	0%	0%	4%	64%
Laketon	7,064	77%	23%	0%	0%	0%	2%	95%
Montague	1,402	90%	10%	9%	0%	1%	6%	67%
Moorland	1,603	93%	7%	20%	0%	2%	2%	53%
Muskegon	16,169	63%	37%	0%	0%	5%	2%	85%
Ravenna	1,620	97%	3%	18%	0%	2%	5%	51%
Sullivan	2,188	92%	8%	7%	0%	0%	1%	84%
White River	1,345	88%	12%	16%	0%	10%	10%	29%
Whitehall	1,438	77%	23%	0%	0%	1%	23%	51%
Cities					0%			
Montague	2,149	61%	39%	0%	0%	3%	9%	75%
Muskegon	39,809	38%	62%	0%	0%	16%	16%	37%
Muskegon Heights	12,564	6%	94%	0%	0%	9%	19%	44%
North Muskegon	3,919	65%	35%	0%	0%	0%	1%	97%
Norton Shores	22,710	50%	50%	1%	0%	5%	12%	64%
Roosevelt Park	4,078	10%	90%	0%	0%	2%	22%	52%
Whitehall	3,298	55%	45%	0%	0%	11%	17%	45%
Villages					0%			
Fruitport	1,034	32%	68%	0%	0%	1%	9%	80%
Lakewood Club	669	62%	38%	0%	0%	0%	1%	97%
Ravenna	992	52%	48%	0%	0%	2%	12%	71%
Casnovia		89%	11%	5%	0%	7%	7%	62%
TOTAL	164,505			2%	0%	6%	11%	62%

Population data from US Census Bureau via WMSRDC and State of Michigan Information Center via the Internet. Percentages of land use courtesy of GVSU Water Resources Institute. Economic base percentages are per the 1998 Equalization Report for Muskegon County.

Conclusions

The current solid waste management system does handle current waste generation in a reasonably effective manner. However, one of the landfills serving Muskegon County has been closed recently, thus creating a need to shift final destination for some wastes currently being generated in Muskegon County. In addition, new import and export authorizations are necessary to assure that sufficient disposal opportunities are available for Muskegon County residents. In consideration of these facts, the Committee has chosen Alternative #2 as the most practical (see Appendix A for details on Alternatives considered).

Selected Alternatives

After review of current waste management techniques utilized in Muskegon County, it has been concluded that the preferred option for meeting solid waste goals is the use of the current infrastructure and programs with additional promotions and education. Although there are many options for creating additional programs and constructing various types of facilities to handle solid waste, it is concluded that the current programs will be able to handle the waste generated for the foreseeable future and new programs are not necessarily advantageous.

Selected Alternative

Alternative number two (#2) [from Appendix A] is based on the status quo system, however, it increases emphasis on the promotion of continued and enhanced recycling opportunities. This alternative also puts into place import and export authorizations that allow for limited export of waste materials and limited import of materials from other counties.

This alternative emphasizes the continued availability of collection of recyclable materials from both residential sources as well as emphasis on the continued efforts of commercial and industrial waste reduction, reuse and recycling programs. The alternative encourages private sector haulers to continue to or begin to offer curbside recycling services as part of residential trash collection operations.

INTRODUCTION

Goals and Objectives

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

(1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation, and other means of resource recovery and;

(2) to prevent adverse effects on the public health and environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and surface waters.

Goal #1

Provide for adequate disposal means and opportunities for waste generated in Muskegon County.

1.1 Provide disposal alternatives that protect the health of the citizens of Muskegon County.

1.2 Provide disposal opportunities that are consistent with local, state and federal standards that protect the environment including air, water and land resources.

1.3 Continue to provide and strive for increasingly economically viable and feasible alternatives for the disposal of solid waste generated in Muskegon County.

1.4 Maintain and/or develop regional approaches for the handling of solid waste generated in Muskegon County and the surrounding area. Develop a cooperative strategy including area-wide involvement in solid waste management.

1.5 Maintain appropriate and necessary disposal services to citizens and small commercial haulers to ensure that sanitary landfill options are available to all citizens of Muskegon County and to those who cannot or choose not to contract for disposal services.

1.6 Assure that existing landfill in Muskegon County remains economically viable and available for disposal alternative located within and convenient to the majority of the population in Muskegon County.

Goal #2

Reduce the volume of solid waste generated in Muskegon County.

2.1 Encourage source reduction and/or pollution prevention by industry and citizens of Muskegon County. This should include the development and dissemination of information and education regarding waste reduction and/or pollution prevention.

2.2 Encourage recycling and re-use of those items that currently have adequate markets and facilities to properly process such items. Also, encourage the purchase of items including recycled material content so as to support the market for recycled materials.

2.3 Promote the development and use of alternative materials and methods in manufacturing process that will reduce pollution and/or make end products more recyclable.

Goal #3

Handle Specialized Wastes

3.1 Investigate alternative methods for handling, processing and marketing yard wastes, including grass clippings, leaves, brush and other feasible items.

3.2 Continue to promote the use of the current household hazardous waste collection program as well as encourage the use of products that will create fewer disposal problems.

DATA BASE

Identification of sources of waste disposed of within the county and sources of the information.

Waste Type	Landfill	From Muskegon County	From Outside Muskegon County	Total
Type II Waste	Muskegon County Solid Waste	174,255 yd^3 58,085 tons		174,255 yd^3 58,085 tons
Type II Waste	White Lake LF	284,820 yd^3 94,940 tons	224,774 yd^3 74,925 tons	509,594 yd^3 169,865 tons
Type III Waste	Muskegon County Solid Waste	87,860 yd^3 87,860 tons		87,860 yd^3 87,860 tons
TOTAL WASTE DISPOSED OF	**IN MUSKEGON COUNTY**	546,935 yd^3 240,885 tons	224,774 yd^3 74,925 tons	**771,709 yd^3 315,810 tons**
Waste Exported				**606,207 yd^3 202,069 tons**
Total Waste Requiring Disposal				**1,377,916 yd^3 517,879 tons**

These figures were taken from "Report of Solid Waste Land filled in Michigan, October 1, 1996 to September 30, 1997", DEQ, February 27, 1998.

Total Type II waste from Muskegon County being land filled: 1,065,282 yd^3 or 355,094 tons for year of October 1, 1996 to September 30, 1997.

The following pages contain information on the solid waste facilities within Muskegon County including a description of each.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II

Facility Name: White Lake Landfill, Inc. - 3278 Colby Road, Whitehall

County: Muskegon **Location:** **Town:** 12N **Range:** 17W **Sections** 27

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXX **Owner:** Waste Management, Inc.

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

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

Site Size:		
Total area of facility property:	97	acres
Total area sited for use:	97	acres
Total area permitted:	34	acres
Operating:		acres
Not excavated:		acres
Current capacity:		cubic yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal amount:		cubic yards
Estimated yearly disposal amount:		tons

Please Note: This landfill is currently closed and it is not part of the estimated capacity availability in the County.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Muskegon County Solid Waste Facility - 9366 Apple Avenue

County: Muskegon **Location:** **Town:** 10N **Range:** 14W **Sections:** 19&20

Map identifying location included in Attachment Section: XXXX Yes No

Public XXXX Private **Owner:** Muskegon County Board of Public Works

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	XXXX	residential
	closed	XXXX	commercial
XXXX	licensed	XXXX	industrial
	unlicenced	XXXX	construction and demolition
XXXX	construction permit	XXXX	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:	120	acres
Total area sited for use:	93	acres
Total area permitted:	93	acres
Operating:	34.3	acres
Not excavated:	32.7	acres
Current capacity:	2,683,440	cubic yards
Estimated lifetime:	14	years
Estimated days open per year:	312	days
Estimated yearly disposal amount:	195,000	cubic yards
Estimated yearly disposal amount:	65,000	tons

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type III Landfill

Facility Name: Muskegon County Fly Ash Monofill - 9366 Apple Avenue

County: Muskegon **Location:** **Town:** 10N **Range:** 14W **Sections:** 20

Map identifying location included in Attachment Section: XXXX Yes No

Public XXXX **Private** **Owner:** Muskegon County Board of Public Works

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	residential	
	closed	commercial	
XXXX	licensed	industrial	
	unlicenced	construction and demolition	
	construction permit	contaminated soils	
	open, but closure	special wastes	
	pending	XXXX other:	Fly Ash

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

Site Size:		
Total area of facility property:	60	acres
Total area sited for use:	57	acres
Total area permitted:	57	acres
Operating:	5	acres
Not excavated:		acres
Current capacity:	2,664,000	cubic yards
Estimated lifetime:	30	years
Estimated days open per year:	260	days
Estimated yearly disposal amount:	90,000	cubic yards
Estimated yearly disposal amount:	90,000	tons #

- fly ash estimated at 1 ton per cubic yard. (as per James Johnson at MDEQ)

NOTE: This facility is scheduled for closure in the year 2001.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Muskegon County Landfill Authority Transfer Station
103 South Quarterline Road

County: Muskegon **Location:** Town: 10N **Range:** 16W **Sections** 15

Map identifying location included in Attachment Section: Yes XXXX No

Public XXXX **Private** **Owner:** Landfill Authority (Egelston, Muskegon Townships and City of Norton Shores)

Operated by Waste Management, Inc.

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

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

Final destination for wastes: Autumn Hills Landfill, Ottawa County

Site Size:		
Total area of facility property:	20	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:		cubic yards
Estimated yearly disposal amount:		tons

Start up data unavailable.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Holton Township Refuse Transfer Station
(Holton-Duck Lake Road, north of Crocker) - 821- 2168

County: Muskegon **Location:** Town: 12N Range: 15W Sections 34

Map identifying location included in Attachment Section: Yes XXXX No

Public XXXX Private Owner: Holton Township

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	XXXX	residential
	closed		commercial
XXXX	licensed		industrial
	unlicenced		construction and demolition
XXXX	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:	78	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	4,200	cubic yards
Estimated yearly disposal amount:	1,400	tons

Final Destination for wastes: Muskegon County Solid Waste Facility.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Fruitland Township Refuse Transfer Station
(Michillinda and Nestrom) - 766-3208

County: Muskegon **Location:** Town: 11N **Range:** 17W **Sections** 17

Map identifying location included in Attachment Section: Yes XXXX No

Public XXXX Private **Owner:** Fruitland Township

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

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

Site Size:		
Total area of facility property	10	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	3,200	cubic yards
Estimated yearly disposal amount:	1,067	tons

Note: Has recycling opportunities for glass, plastic, aluminum, tin, all metals, cardboard and lawn waste.

Final Destination for wastes: Muskegon County Solid Waste Facility.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Dalton Township Refuse Transfer Station
(Russell at McMillan) - 766- 3043

County: Muskegon **Location:** Town: 11N Range: 16W Sections 16

Map identifying location included in Attachment Section: Yes XXXX No

Public XXXX Private Owner: Dalton Township

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

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

Site Size:		
Total area of facility property:	40	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	6,000	cubic yards
Estimated yearly disposal amount:	2,000	tons

Note: Has recycling opportunities for newsprint, glass, tin cans, and plastic.

Final Destination for wastes: Muskegon County Solid Waste Facility.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Cedar Creek Township Refuse Transfer Station
(Holton-Duck Lake south of Crocker) - 821-0014

County: Muskegon **Location:** **Town:** 11N **Range:** 15W **Sections** 3

Map identifying location included in Attachment Section: Yes XXXX No

Public XXXX **Private** **Owner:** Cedar Creek Township

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

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

Site Size:		
Total area of facility property:	40	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	3,140	cubic yards
Estimated yearly disposal volume:	1,047	tons

Final Destination for wastes: Muskegon County Solid Waste Facility.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: White Lake Solid Waste Authority
(2000 Holton-Whitehall Road)

County: Muskegon **Location:** Town: 12N Range: 17W Sections 23

Map identifying location included in Attachment Section: Yes XXXX No

Public XXXX Private Owner: White Lake Solid Waste Authority

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

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

Site Size:		
Total area of facility property:		acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	2,900	cubic yards
Estimated yearly disposal amount:	967	tons

Note: Recycling available for glass, plastic, newsprint, cardboard, waste motor oil and batteries.

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Autumn Hills Recycling and Disposal

County: Ottawa **Location:** **Town:** 5N **Range:** 14W **Sections** 36

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXXX **Owner:** Autumn Hills RFD - Waste Management of Michigan

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

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

Site Size:

Total area of facility property:	314	acres
Total area sited for use:	197	acres
Total area permitted:	99.3	acres
Operating:	35.1	acres
Not excavated:	64.2	acres
Current capacity:	21	tons
Estimated lifetime:	30.2	years
Estimated days open per year:	286	days
Estimated yearly disposal amount:	500,000	tons

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Ottawa County Farms Landfill

County: Ottawa **Location:** **Town:** 8N **Range:** 14W **Sections** 26/27

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXXX **Owner:** Allied Waste Systems

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

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

Site Size:		
Total area of facility property:	240	acres
Total area sited for use:	197	acres
Total area permitted:	240	acres
Operating:	37	acres
Not excavated:	125	acres
Current capacity:	16,500,000	yards
Estimated lifetime:	25-30	years
Estimated days open per year:	286	days
Estimated yearly disposal amount:	500,000	tons
Annual Energy Production:		
Landfill gas recovery projects:	4,565	megawatts
Waste-to-Energy incinerators:	NA	megawatts

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Central Sanitary Landfill

County: Montcalm **Location:** Town: 11 **Range:** 10 **Sections** 21

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXXX **Owner:** Waste Management of Michigan

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

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

Site Size:		
Total area of facility property:	315	acres
Total area sited for use:	4032	acres
Total area permitted:	18.45	acres
Operating:	18.45	acres
Not excavated:	5.76	acres
Current capacity:	373,428	yards
Estimated lifetime:	2	years
Estimated days open per year:	306	days
Estimated yearly disposal amount:	100,000	tons

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Pitsch Sanitary Landfill

County: Ionia **Location:** **Town:** 7E **Range:** 8N **Sections** 7

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXXX **Owner:** Pitsch Companies

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	XXXX	residential
	closed	XXXX	commercial
XXXX	licensed	XXXX	industrial
	unlicenced		construction and demolition
XXXX	construction permit	XXXX	contaminated soils
	open, but closure	XXXX	special wastes
	pending	XXXX	other: Asbestos

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

Site Size:

Total area of facility property:	143.5	acres
Total area sited for use:	28+41	acres
Total area permitted:	78	acres
Operating:	8	acres
Not excavated:	70	acres

Current capacity:	415,000 plus 4,500,00	tons
Estimated lifetime:	27	years
Estimated days open per year:	307	days
Estimated yearly disposal amount:	83,000	tons

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: South Kent County Landfill

County: Kent **Location:** **Town:** 5N **Range:** 12W **Sections** 36

Map identifying location included in Attachment Section: Yes XXXX No

Public XXXX **Private** **Owner:** Kent County

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	XXXX	residential
	closed	XXXX	commercial
XXXX	licensed	XXXX	industrial
	unlicenced		construction and demolition
XXXX	construction permit	XXXX	contaminated soils
	open, but closure		special wastes
	pending	XXXX	other: Incinerator ash

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

Site Size:		
Total area of facility property:	250	acres
Total area sited for use:	112	acres
Total area permitted:	112	acres
Operating:	31	acres
Not excavated:	81	acres
Current capacity:	7,600,000	tons
	1.5 million tons ash	
Estimated lifetime:	38	years
Estimated days open per year:	310	days
Estimated yearly disposal amount:	155,000	tons

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

Type II Landfills

Muskegon County Solid Waste
Moorland Township, Muskegon County
Autumn Hills Recycling and Disposal Facility
Zeeland Township, Ottawa County
Ottawa County Farms
Polkton Township, Ottawa County
South Kent Landfill
Kent County
Pitch Landfill
Orleans Township, Ionia County
Central Landfill
Pierson, Montcalm County

Type III Landfill

Muskegon County Solid Waste
Moorland Township, Muskegon County (scheduled to close 2001)

Transfer Stations

White Lake Area Transfer Authority (Type B)
Whitehall Township, Muskegon County
Holton Township (Type B)
Holton Township, Muskegon County
Cedar Creek Township (Type B)
Cedar Creek Township, Muskegon County
Fruitland Township (Type B)
Fuitland Township, Muskegon County
Waste Management, Inc. (Type A)
Muskegon Township, Muskegon County

Processing Plants

Community Recycling Services
City of Muskegon, Muskegon County
West Michigan Recycling
Muskegon Township, Muskegon County

Composting Facilities

White Lake Excavating
Whitehall Township, Muskegon County
Lakeshore Disposal
Dalton Township, Muskegon County
Ottawa Farms
Coopersville, Ottawa County
Engle's Composting
Fruitport Township, Muskegon County

Solid Waste Collection Services and Transportation Infrastructure

Collection of solid waste in most areas of the County is accomplished by residential hauling companies. All areas are served by some disposal service, however, some residents opt to use local transfer stations or the County solid waste facility for direct disposal requirements.

The Cities of Muskegon, Muskegon Heights, and Roosevelt Park as well as the Villages of Fruitport and Ravenna are under contract with hauling companies for all residential trash services. Cities of Roosevelt Park, Muskegon, Villages of Fruitport and Ravenna have curbside recycling for all residents as part of the services provided. All other areas within the County have independent residential services. Commercial hauling is done by a number of private companies serving area business and industry.

Recyclable materials for residential accounts are transported via separate trucks and typically taken to one of a number of recovery facilities within the county, however, some recyclable materials are transported outside of the county.

Commercial and industrial solid wastes that are recyclable are transported to any of a number of recovery facilities or scrap yards. Fly ash from various power generation operations is transported to the Muskegon County Solid Waste Facility mono fill (Type III) or out of county to other disposal facilities. Most foundry sand is currently transported to a recycling facility in Ottawa County. Yard waste is also being handled in various ways including the use of a composting facilities in Ottawa and Muskegon Counties.

The following is a list of most active haulers:

Jer's Big Bear Disposal - 1719 Whitehall Road, Muskegon - 777-1913
Kriesel Sanitation - 326 East Bard Road, Muskegon - 766-3374
Kuerth Disposal - 2621 Dalson Road, Twin Lake - 744-4967
Sunset Disposal - Jenison, MI 49428 - 1/800/882-9565
Lakeshore Disposal - 2411 Lake Ave, Muskegon - 744-2373
Privasky Trucking - 1497 Maralboro, Roosevelt Park - 755-4567
Wood Trucking - 2540 Lakeshore Drive, Muskegon - 755-1677
RMS Disposal - 4345 South Wolf Lake, Fruitport - 788-5096
Waste Management, Inc. - 11558 East Lakewood, Holland - 800-386-7783
Ames Disposal - 1415 Woodhaven, Muskegon - 744-3031
Muskegon Township - 1990 East Apple - 777-2555
Midway Trucking - 2344 Park - 733-2468

Evaluation of Deficiencies and Problems

Currently, the flow of waste from point of generation to the point of disposal has been accomplished with few problems. Solid waste disposal sites have been readily available for most materials. Yard waste collection and tire disposal are perceived as problematic, however, systems are currently available for yard waste composting (see list on previous page) and tires are currently handled through tire dealerships for fee.

Demographics

Municipality	1996 Est. Population	Waste Gen. in Tons	2005 Est. Population	Waste Gen. in Tons	2010 Est. Population	Waste Gen. in Tons
Townships						
Blue Lake	1,225	968	1,248	986	1,257	993
Casnovia	2,632	2,080	2,681	2,119	2,701	2,134
Cedar Creek	3,159	2,496	3,218	2,543	3,242	2,562
Dalton	6,286	4,967	6,404	5,061	6,450	5,097
Egelston	8,128	6,423	8,281	6,544	8,340	6,591
Fruitland	4,744	3,749	4,833	3,819	4,868	3,847
Fruitport	11,959	9,450	12,184	9,628	12,272	9,697
Holton	2,321	1,834	2,365	1,869	2,382	1,882
Laketon	7,064	5,582	7,197	5,687	7,249	5,728
Montague	1,402	1,108	1,428	1,129	1,439	1,137
Moorland	1,603	1,267	1,633	1,291	1,645	1,300
Muskegon	16,169	12,777	16,473	13,017	16,592	13,111
Ravenna	1,620	1,280	1,650	1,304	1,662	1,314
Sullivan	2,188	1,729	2,229	1,762	2,245	1,774
White River	1,345	1,063	1,370	1,083	1,380	1,091
Whitehall	1,438	1,136	1,465	1,158	1,476	1,166
Cities						
Montague	2,149	1,698	2,189	1,730	2,205	1,743
Muskegon	39,809	31,458	40,557	32,049	40,849	32,280
Muskegon Heights	12,564	9,928	12,800	10,115	12,892	10,188
North Muskegon	3,919	3,097	3,993	3,155	4,021	3,178
Norton Shores	22,710	17,946	23,137	18,283	23,304	18,415
Roosevelt Park	4,078	3,223	4,155	3,283	4,185	3,307
Whitehall	3,298	2,606	3,360	2,655	3,384	2,674
Villages						
Fruitport	1,034	817	1,053	832	1,061	838
Lakewood Club	669	529	682	539	686	542
Ravenna	992	784	1,011	799	1,018	804
Casnovia						
TOTAL	**164,505**	**129,996**	**167,598**	**132,440**	**168,804**	**133,393**

Note: Waste generation figures are for residential generation estimates only and do not include commercial or industrial generation estimates.

Residential waste generation is estimated at 4.33 pounds per day per capita for all years. This is based on EPA's *"Characterization of Municipal Solid Waste In the United States: 1997 Update"*, report number EPA 530-R-98-007.

Industrial generation of waste is estimated at 745,000 tons (1,870,000 cubic yards) in 1998, 767,350 tons (1,926,100 cubic yards) in 2005 and 778,860 (1,954,991 cubic yards) tons in 2010. This is based on the following estimated industrial/commercial generation for 1998 along with a 3% increase from 1998 to 2005 and 1.5% increase from 2005 to 2010.

Estimated Industrial and Commercial Waste Generation

Waste Type	1998 (tons)	1998 (yd^3)	2005 (tons)	2005 (yd^3)	2010 (tons)	2010 (yd^3)
Foundry Sand	75,000	75,000	77,250	77,250	78,409	78,409
Concrete and Asphalt	50,000	50,000	51,500	51,500	52,272	52,272
Fly Ash	350,000	350,000	360,500	360,500	365,907	365,907
Soils and Sludges	45,000	45,000	46,350	46,350	47,045	47,045
Commercial Type II	100,000	300,000	103,000	309,000	104,545	313,635
Construction and Demolition	100,000	300,000	103,000	309,000	104,545	313,635
Misc. Wastes	25,000	75,000	25,750	77,250	26,136	78,408
TOTAL	**745,000**	**1,195,000**	**767,350**	**1,230,850**	**778,860**	**1,248,313**

Estimates for foundry sand, concrete, fly ash and soils/sludges is based on survey results from local processors. The other materials are estimates.

Land Development

Land use in Muskegon County has changed in many ways in the last nineteen years. For example, between 1978 and 1992 14,636 acres of crop land was lost in Muskegon County and an additional 4,449 acres between 1992 and 1997 for a total of 19,085 acres. Conversely, between 1978 and 1992 there was a gain of almost 4,000 acres of residential development and an additional 5,655 acres in the following five years. Commercial growth (by land use) was eleven percent between 1978 and 1992 and even more significantly, it was nineteen percent between 1993 and 1998 for a total of a 1,448 acre increase.

In general, residential growth continues as part of a typical urban sprawl pattern. Although more land is being put into use as residential, the population is not increasing at a rapid rate. Population has risen only 4.48% from 1970 to 1995. Many areas of the metropolitan area are losing residential areas with people's preference to build in currently undeveloped area on the fringes of the metropolitan area. Industrial growth comes after a significant decline after WWII and is beginning to re-utilize some former industrial areas, however, there has been some new expansion in industrial parks throughout the County.

Solid Waste Management Alternatives

The current overall solid waste management infrastructure and programs have proven very effective in handling the level of waste currently generated. It is also expected to be able to sufficiently handle the expected levels of waste over the coming years. In short, the management method chosen at this time is a *status quo* system with some improvements in education to bolster participation in resource conservation and recycling programs via continued educational programs.

Alternative #1: <u>Status Quo System</u>

This alternative uses the current waste management system with increased education and promotion of current recycling opportunities and waste reduction methods.

This system includes the use of the current transportation infrastructure and collection methods as outlined in the section entitled *Transportation and Infrastructure*, the use of the current recycling, composting and household hazardous waste facilities and programs as outlined in the tables provided (Tables III-1, III-2, and III-3) on pages 43, 44, and 45, and the use of the current Type A and Type B transfer stations and Type II and Type III landfills as outlined in the Facility Description sections.

In the past, some waste was imported into Muskegon County and disposed of at the White Lake Landfill. However, this landfill has been closed. The Muskegon County Solid Waste Facility currently does not accept out-of-county waste except for case-by-case basis.

Alternative #2: <u>Modified Current System with Import/Export Controls</u>

Alternative number two (#2) is based on the status quo system, however, it increases emphasis on the promotion of continued and enhanced recycling opportunities. This alternative also puts into place import and export authorizations that allow for limited export of waste materials and limited import of materials from other counties.

This alternative emphasizes the continued availability of collection of recyclable materials from both residential sources as well as emphasis on the continued efforts of commercial and industrial recycling. The alternative encourages private sector haulers, via educational programs, to continue to or begin to offer curbside recycling services as part of residential trash pick-up operations.

The selected system is Alternative #2, in which many of the current programs will continue, including private sector recycling, and a renewed emphasis on realistic and feasible recycling and waste reduction efforts. Also included are import and export limiations that will be set forth in later sections of this plan.

The following summarizes the findings of the evaluation and the basis for selecting this system:

A. Technical feasibility - although many items are considered technically recyclable, there is a need for tremendous volumes of materials to make them technically and ecomically feasible to collect, transport and process.

B. Cost - the costs of implementing a program must be weighed against the return in environmental benefit. Also, costs of startup, maintenance, and labor must be considered.

C. Public vs. Private - Private sector has taken the lead in many areas due to cost cutting concerns and market forces. Consideration must be given as to the appropriateness of the public sector competing against private operations.

D. Environmental Impact - an overall array of environmental considerations must be given when studying alternatives. In some cases, the environmental benefit may outweigh cost considerations if there is a significant environmental threat that needs to be addressed.

Advantages and Disadvantages of the Selected System

Advantages

1. Infrastructure and operations are already in place.
2. Utilize current resources.
3. Can be enhanced by promotion and education.
4. Relies on private sector and market forces.

Disadvantages

1. Relies on private sector and market forces.
2. Does not mandate increased recycling or waste reduction via ordinance

See section regarding Imports and Exports of waste.

A full description of the selected solid waste management system is available in Appendix A.

Solid Waste Disposal Areas

Type II Landfill:
(See Facility Descriptions for Locations)
Muskegon County Solid Waste
Ottawa Farms Landfill (Ottawa County)
Autumn Hills Landfill (Ottawa County)

Type B Transfer Facility:
(See Facility Descriptions for Locations)
White Lake Area Transfer Authority
Holton Township
Cedar Creek Township
Fruitland Township

Type III Landfill:
(See Facility Descriptions for Locations)
Muskegon County Solid Waste

Processing Plant:
Community Recycling Services
1970 Port City Blvd.

West Michigan Recycling
40 Harvey Street

RRC - Dalton Township

Composting Facilities
White Lake Excavating
Whitehall Township, Muskegon County
Lakeshore Disposal
Dalton Township, Muskegon County
Ottawa Farms
Coopersville, Ottawa County
Engle's Composting
Fruitport Township, Muskegon County

Type A Transfer Facility:
(See Facility Descriptions for Locations)
Waste Management, Inc.

IMPORT AUTHORIZATION

Table 1-A

CURRENT IMPORT/VOLUME AUTHORIZATION OF SOLID WASTE

Importing County	Exporting County	Facility Name	Authorized ** Quantity Daily	Authorized Quantity Annually	Authorized Conditions
Muskegon	Kent County	Muskegon Co.LF	NA	Insignificant	Primary
Muskegon	Newaygo County	Muskegon Co.LF	NA	46,000 tons per year	Primary
Muskegon	Oceana County	Muskegon Co.LF	NA	46,000 tons per year	Primary
Muskegon	Ottawa County	Muskegon Co.LF	NA	46,000 tons per year	Primary
Muskegon	Mason County	Muskegon Co.LF	NA	46,000 tons per year	Primary
Muskegon	Lake County	Muskegon Co.LF	NA	46,000 tons per year	Primary
Muskegon	All other MI Counties	Muskegon Co.LF	NA	NA	Emergency

Note: All import authorizations require formal agreement and approval from Muskegon County Board of Public Works.

*** NOTE: The above listed authorizations allow for the import of up to a maximum of 46,000 tons per year from one or combination of counties with a "not to exceed" of 46,000 tons.*

Table 1-B

FUTURE IMPORT/VOLUME AUTHORIZATION OF SOLID WASTE

Importing County	Exporting County	Facility Name	Authorized Quantity Daily	Authorized Quantity Annually	Authorized Conditions
Muskegon	Any/All Michigan Counties	Muskegon County Solid Waste Facility			Emergency

Note: All import authorizations require formal agreement and approval from Muskegon County Board of Public Works.

Currently, there are no plans for additional Type II facilities to be constructed within Muskegon County during the term of this plan.

Table 2-A

CURRENT EXPORT/VOLUME AUTHORIZATION OF SOLID WASTE

Exporting County	Importing County	Facility Name	Authorized Quantity Daily	Authorized ** Quantity Annually	Authorized Conditions
Muskegon	Kent County	Kent County RR	NA	100,000	Primary
Muskegon	Ottawa County	Ottawa Farms/Autumn Hills	NA	100,000	Primary
Muskegon	Manistee County		NA	100,000	Primary
Muskegon	Montcalm County	Central Landfill	NA	100,000	Primary
Muskegon	Ionia County		NA	100,000	Primary
Muskegon	Mason County		NA	100,000	Primary
Muskegon	Lake County		NA	100,000	Primary

***** NOTE: Export volume is not exceed 100,000 tons of Type II waste annually to one or combination of above counties. All export authorizations are subject to annual adjustments and allowance for contract mechanism and must be approved by the Muskegon County Board of Public Works.***

Table 2-B

FUTURE EXPORT/VOLUME AUTHORIZATION OF SOLID WASTE

Exporting County	Importing County	Facility Name	Authorized Quantity Daily	Authorized Quantity Annually	Authorized Conditions
Muskegon	Any/All Michigan Counties				

NOTE: Export destination is not limited, however is subject to reciprocal agreement and must adhere to this plans limits for total amount of waste allowed to be exported annually.

FACILITY DESCRIPTIONS

Facility Type: Type II

Facility Name: White Lake Landfill, Inc. - 3278 Colby Road, Whitehall

County: Muskegon Location: Town: 12N Range: 17W Sections 27

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXX Owner: Waste Management, Inc.

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

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

Site Size:

Total area of facility property:	97	acres
Total area sited for use:	97	acres
Total area permitted:	34	acres
Operating:		acres
Not excavated:		acres

Current capacity:	cubic yards
Estimated lifetime:	years
Estimated days open per year:	days
Estimated yearly disposal amount:	cubic yards
Estimated yearly disposal amount:	tons

Please Note: This landfill is currently closed and it is not part of the estimated capacity availability in the County.

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Muskegon County Solid Waste Facility - 9366 Apple Avenue

County: Muskegon Location: Town: 10N Range: 14W Sections: 19&20

Map identifying location included in Attachment Section: XXXX Yes No

Public XXXX Private Owner: Muskegon County Board of Public Works

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	XXXX	residential
	closed	XXXX	commercial
XXXX	licensed	XXXX	industrial
	unlicenced	XXXX	construction and demolition
XXXX	construction permit	XXXX	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:	120	acres
Total area sited for use:	93	acres
Total area permitted:	93	acres
Operating:	34.3	acres
Not excavated:	32.7	acres
Current capacity:	2,683,440	cubic yards
Estimated lifetime:	14	years
Estimated days open per year:	312	days
Estimated yearly disposal amount:	195,000	cubic yards
Estimated yearly disposal amount:	65,000	tons

FACILITY DESCRIPTIONS

Facility Type: Type III Landfill

Facility Name: Muskegon County Fly Ash Monofill - 9366 Apple Avenue

County: Muskegon Location: Town: 10N Range: 14W Sections: 20

Map identifying location included in Attachment Section: XXXX Yes No

Public XXXX Private Owner: Muskegon County Board of Public Works

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open		residential
	closed		commercial
XXXX	licensed		industrial
	unlicenced		construction and demolition
	construction permit		contaminated soils
	open, but closure		special wastes
	pending	XXXX	other: Fly Ash

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

Site Size:		
Total area of facility property:	60	acres
Total area sited for use:	57	acres
Total area permitted:	57	acres
Operating:	5	acres
Not excavated:		acres

Current capacity:	2,664,000	cubic yards
Estimated lifetime:	30	years
Estimated days open per year:	260	days
Estimated yearly disposal amount:	90,000	cubic yards
Estimated yearly disposal amount:	90,000	tons #

- fly ash estimated at 1 ton per cubic yard. (as per James Johnson at MDEQ)

NOTE: This facility is scheduled for closure in the year 2001.

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Muskegon County Landfill Authority Transfer Station
103 South Quarterline Road

County: Muskegon Location: Town: 10N Range: 16W Sections 1
5

Map identifying location included in Attachment Section: Yes XXXX No
Public XXXX Private Owner: Landfill Authority (Egelston, Muskegon Townships and City of Norton Shores)

Operated by Waste Management, Inc.

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

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

Final destination for wastes: Autumn Hills Landfill, Ottawa County

Site Size:

Total area of facility property:	20	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres

Current capacity:	tons or square yards
Estimated lifetime:	years
Estimated days open per year:	days
Estimated yearly disposal volume:	cubic yards
Estimated yearly disposal amount:	tons

Start up data unavailable.

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Holton Township Refuse Transfer Station
(Holton-Duck Lake Road, north of Crocker) - 821- 2168

County: Muskegon Location: Town: 12N Range: 15W Sections 3
4

Map identifying location included in Attachment Section: Yes XXXX No
Public XXXX Private Owner: Holton Township

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	XXXX	residential
	closed		commercial
XXXX	licensed		industrial
	unlicenced		construction and demolition
XXXX	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:	78	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	4,200	cubic yards
Estimated yearly disposal amount:	1,400	tons

Final Destination for wastes: Muskegon County Solid Waste Facility.

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Fruitland Township Refuse Transfer Station
(Michillinda and Nestrom) - 766-3208

County: Muskegon Location: Town: 11N Range: 17W Sections 1
7

Map identifying location included in Attachment Section: Yes XXXX No
Public XXXX Private Owner: Fruitland Township

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

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

Site Size:

Total area of facility property	10	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	3,200	cubic yards
Estimated yearly disposal amount:	1,067	tons

Note: Has recycling opportunities for glass, plastic, aluminum, tin, all metals, cardboard and lawn waste.

Final Destination for wastes: Muskegon County Solid Waste Facility.

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Dalton Township Refuse Transfer Station
(Russell at McMillan) - 766- 3043

County: Muskegon Location: Town: 11N Range: 16W Sections 1
6

Map identifying location included in Attachment Section: Yes XXXX No
Public XXXX Private Owner: Dalton Township

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

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

Site Size:		
Total area of facility property:	40	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	6,000	cubic yards
Estimated yearly disposal amount:	2,000	tons

Note: Has recycling opportunities for newsprint, glass, tin cans, and plastic.

Final Destination for wastes: Muskegon County Solid Waste Facility.

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Cedar Creek Township Refuse Transfer Station
(Holton-Duck Lake south of Crocker) - 821-0014

County: Muskegon Location: Town: 11N Range: 15W Sections 3

Map identifying location included in Attachment Section: Yes XXXX No
Public XXXX Private Owner: Cedar Creek Township

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

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

Site Size:		
Total area of facility property:	40	acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	3,140	cubic yards
Estimated yearly disposal volume:	1,047	tons

Final Destination for wastes: Muskegon County Solid Waste Facility.

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: White Lake Solid Waste Authority
(2000 Holton-Whitehall Road)

County: Muskegon Location: Town: 12N Range: 17W Sections 2
3

Map identifying location included in Attachment Section: Yes XXXX No
Public XXXX Private Owner: White Lake Solid Waste Authority

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

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

Site Size:

Total area of facility property:		acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		tons or square yards
Estimated lifetime:		years
Estimated days open per year:		days
Estimated yearly disposal volume:	2,900	cubic yards
Estimated yearly disposal amount:	967	tons

Note: Recycling available for glass, plastic, newsprint, cardboard, waste motor oil and batteries.

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Autumn Hills Recycling and Disposal

County: Ottawa Location: Town: 5N Range: 14W Sections 36

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXXX Owner: Autumn Hills RFD - Waste Management of Michigan

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

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

Site Size:		
Total area of facility property:	314	acres
Total area sited for use:	197	acres
Total area permitted:	99.3	acres
Operating:	35.1	acres
Not excavated:	64.2	acres
Current capacity:	21	tons
Estimated lifetime:	30.2	years
Estimated days open per year:	286	days
Estimated yearly disposal amount:	500,000	tons

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Ottawa County Farms Landfill

County: Ottawa **Location:** **Town:** 8N **Range:** 14W **Sections** 26/27

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXXX **Owner:** Allied Waste Systems

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

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

Site Size:		
Total area of facility property:	240	acres
Total area sited for use:	197	acres
Total area permitted:	240	acres
Operating:	37	acres
Not excavated:	125	acres
Current capacity:	16,500,000	yards
Estimated lifetime:	25-30	years
Estimated days open per year:	286	days
Estimated yearly disposal amount:	500,000	tons
Annual Energy Production:		
Landfill gas recovery projects:	4,565	megawatts
Waste-to-Energy incinerators:	NA	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Central Sanitary Landfill

County: Montcalm **Location:** **Town:** 11 **Range:** 10 **Sections** 2
1

Map identifying location included in Attachment Section: Yes XXXX No
Public Private XXXX **Owner:** Waste Management of Michigan

OWNER: Shadelle
Allied Waste
Industries

Operating Status (check)			Waste Types Received (c
XXXX	open	XXXX	residential
	closed	XXXX	commercial
XXXX	licensed	XXXX	industrial
	unlicenced		construction and demolit
	construction permit	XXXX	contaminated soils
	open, but closure pending	XXXX	special wastes
			other:

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

Site Size:		
Total area of facility property:	315	acres
Total area sited for use:	4032	acres
Total area permitted:	18.45	acres
Operating:	18.45	acres
Not excavated:	5.76	acres
Current capacity:	373,428	yards
Estimated lifetime:	2	years
Estimated days open per year:	306	days
Estimated yearly disposal amount:	100,000	tons

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Pitsch Sanitary Landfill

County: Ionia Location: Town: 7E Range: 8N Sections 7

Map identifying location included in Attachment Section: Yes XXXX No

Public Private XXXX Owner: Pitsch Companies

Operating Status (check)			Waste Types Received (check all that apply)
XXXX	open	XXXX	residential
	closed	XXXX	commercial
XXXX	licensed	XXXX	industrial
	unlicenced		construction and demolition
XXXX	construction permit	XXXX	contaminated soils
	open, but closure	XXXX	special wastes
	pending	XXXX	other: Asbestos

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

Site Size:

Total area of facility property:	143.5	acres
Total area sited for use:	28+41	acres
Total area permitted:	78	acres
Operating:	8	acres
Not excavated:	70	acres

Current capacity:	415,000 plus 4,500,00	tons
Estimated lifetime:	27	years
Estimated days open per year:	307	days
Estimated yearly disposal amount:	83,000	tons

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: South Kent County Landfill

County: Kent Location: Town: 5N Range: 12W Sections 36

Map identifying location included in Attachment Section: Yes XXXX No
Public XXXX Private Owner: Kent County

Operating Status (check)		Waste Types Received (check all that apply)	
XXXX	open	XXXX	residential
	closed	XXXX	commercial
XXXX	licensed	XXXX	industrial
	unlicenced		construction and demolition
XXXX	construction permit	XXXX	contaminated soils
	open, but closure		special wastes
	pending	XXXX	other: Incinerator ash

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

Site Size:		
Total area of facility property:	250	acres
Total area sited for use:	112	acres
Total area permitted:	112	acres
Operating:	31	acres
Not excavated:	81	acres
Current capacity:	7,600,000	tons
	1.5 million tons ash	
Estimated lifetime:	38	years
Estimated days open per year:	310	days
Estimated yearly disposal amount:	155,000	tons

Solid Waste Collection Services and Transportation

It is anticipated that current waste collection services will be utilized to meet the needs within the selected alternative. Please refer to Appendix A for a description of current collection services and infrastructure summary.

Resource Conservation Efforts:

Estimated Diversion in Tons per Year

Efforts	Current	5th Yr	10th Yr
Waste Reduction Education for Public and Private Sector	500	1000	2500

Waste Reduction, Recycling, & Composting Programs:

Estimated Air Space Conserved Yd^3/Yr

Efforts	Current	5th Yr	10th Yr
Community Recycling Services - collection of recyclable materials from curbside collection programs and from drop-off collections from residents.	39,975	41,973	44,071
Asphalt Paving - collection of concrete and asphalt for crushing and reuse.	100,000	105,000	110,250
Ken Cooper Recycling - collection of concrete and asphalt for crushing and reuse.	30,000	31,500	33,075
Resource Recovery Corporation - recycling of foundry sand.	32,000	33,600	35,280
Padnos Steel - scrap metal collection and recycling	140,000	147,000	154,350

Note: Foundry sand, metals, concrete and asphalt are one ton to one cubic yard.
Estimating a 5% percent increase from current to year 5 and from year 5 to year 10.

Overview of Resource Recovery Programs

X *Recycling program within the County are feasible. Details of existing and planned programs are included as follows:*

Community Recycling Services
West Michigan Recycling
Asphalt Paving
Ken Cooper Recycling
Sunset Waste Systems (Outside of Muskegon County, but serving Muskegon County areas)
Padnos Steel
Muskegon Rag and Metal

Please refer to Table III-1 for complete details on these programs.

X *Composting programs within the County are feasible. Details of existing and planned programs as follows:*

Engle's Composting
Lakeshore Disposal
Sunset Waste (Outside of Muskegon County, but serving Muskegon County areas)
Engle's Composting
White Lake Excavating
Please refer to Table III-2 for complete details on these programs.

X *Programs for source separation of potentially hazardous materials are feasible and details are as follows:*

The County of Muskegon operates a household hazardous waste (HHW) collection and information program serving all Muskegon County residents. The program was initiated in 1990 and has gone through a number of changes in service including sponsoring one-day collections in various areas of the County to its current program of a scheduled collections servicing the public throughout the months of April through September by appointment.

Materials accepted include pesticides, flammable liquids, batteries, acids, bases, other poisons, etc.

Please refer to Table III-3 for complete details on these programs.

Recycling and Composting

Yard waste collection from residential sources is being transported to a number of private composting facilities. Four exist in Muskegon County as listed in Table III-2. Residential recycling is typically done via curbside collection with delivery to recovery facility in the County as listed in Table III-2 as well as processing facilities in other Counties as listed in Table III-2. All refuse hauling and collecting companies offer recycling services. Transportation of recyclable materials is typically completed by private hauling firms, however, there are residential drop-off points throughout the County. Yard wastes are also being handled via various agricultural activities within the county.

Educational materials through area schools via curriculum continues to promote recycling and waste reduction efforts as well as composting (MSU Extension).

Recycling

TABLE III-1

Program Name	Service Area	Public or Private	Collection Point	Collection Frequency	Materials Collected	Program Management Responsibilities: Development	Operation	Evaluation
Community Recycling Services	Muskegon County	Private	d	d	abcdef	5	5	5
West Michigan Recycling	Muskegon County	Private	d	d	abcdef	5	5	5
City of Muskegon	City of Muskegon	Pub/Priv	c	b	abcdef	3	5	3/5
City of Roosevelt Park	City of Roosevelt Park	Pub/Priv	c	b	abcdef	3	5	3/5
Village of Fruitport	Village of Fruitport	Pub/Priv	c	b	abcdef	3	5	3/5
Various Private Haulers	Muskegon County	Private	c	b	abcdef	5	5	5
Asphalt Paving	Muskegon County	Private	d	d	j	5	5	5
Ken Cooper Recycling	Muskegon County	Private	d	d	j	5	5	5
Resource Recovery Corp.	Muskegon County Plus	Private	deliv.	d	foundry sand	5	5	5
Padnos Steel	Muskegon County Plus	Private	d	d	f	5	5	5
Muskegon Rag and Metal	Muskegon County Plus	Private	d	d	f	5	5	5

Collection point: c = curbside, d = drop-off
Collection frequency: d = daily, w = weekly, b= bi-weekly
Materials: a = plastics, b = newsprint, c = corrugated containers, d = other paper, e = glass, f = metals, j = construction/demolition
Development, Operation, and Evaluation: 5= private, 3 = public

Composting

TABLE III-2

Program Name	Service Area	Public or Private	Collection Point	Collection Frequency	Materials Collected	Program Management Responsibilities: Development	Operation	Evaluation
Lakeshore Disposal	Muskegon County Plus	Private	d	d	g,l,w	5	5	5
Ottawa Farms	Multiple counties	Private	d	d	g,l,w	5	5	3/5
Engle's Composting	Muskegon County Plus	Private	d	d	gl,w	5		

Collection point: c = curbside, d = drop-off
Collection frequency: d = daily, w = weekly, b= bi-weekly
Materials: g = grass, l = leaves, w = wood
Development, Operation, and Evaluation: 5= private, 3 = public

Household Hazardous Wastes

TABLE III-3

Program Name	Service Area	Public or Private	Collection Point	Collection Frequency	Materials Collected	Program Management Responsibilities: Development	Operation	Evaluation
Muskegon County DPW	Muskegon County	Public	d	m, Sp, Su, Fa	ar,a,b2,c,h,p,ps, ph	3	3	3

Collection point: c = curbside, d = drop-off
Collection frequency: d = daily, w = weekly, b= bi-weekly
Materials: ar = aerosol cans, a = automotive products, b2 = household batteries, c = cleaners and polishers, h = hobby and art supplies, p = oil based paints and solvents, ps = pesticides and herbicides, ph = personal and health care products.
Development, Operation, and Evaluation: 5= private, 3 = public

PLEASE NOTE:

TABLE III-4, III-5, & III-6, Proposed programs: Same as current operations. Please refer to TABLES III-1, III-2, & III-3.

Identification of Resource Recovery Management Entities

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

City of Muskegon - continued operation of curbside recycling program for all residential units.

City of Roosevelt Park - continued operation of curbside recycling program for all residential units.

Village of Fruitport - continued operation of curbside recycling program for all residential units.

Village of Ravenna - continued operation of curbside recycling program for all residential units.

Muskegon County - educational materials and maintaining Internet web site with relative information.

Community Recycling Services - operation of a materials recovery facility that offers both citizen drop-off area as well as serving as the primary recovery facility for most recyclable materials collected in curbside programs in Muskegon County.

West Michigan Recycling - operation of a materials recovery facility that offers both citizen drop-off area and also serves as a recovery facility for some curbside collection programs.

Fruitland Township - operates a transfer station which also collects materials for recycling.

Holton Township - operates a transfer station which also collects materials for recycling.

Cedar Creek Township - operates a transfer station which also collects materials for recycling.

White Lake Waste Authority - operates a transfer station which also collects materials for recycling.

Identification of Responsible Parties

The Muskegon County Department of Public Works and the County of Muskegon is the official Designated Planning Agency for the Muskegon County Solid Waste Plan Update.

Local Ordinances Affecting Solid Waste Disposal

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 and rules meeting the qualifications set forth herein may be adopted by ordinance and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to the approved Solid Waste Management Plan.

1. Hours of operation.
2. Noise, litter, odor and dust control.
3. Operating records and reports.
4. Facility security.
5. Monitoring of wastes accepted and prohibited.
6. Lighting
7. Signage.

Capacity Certification

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.

NOTE: Capacity has been determined by adding the current capacity at the Muskegon County Solid Waste Facility to anticipated agreements with surrounding counties for export authorization.

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 tens years.

Estimated Diversion of Materials (in tons and in cubic yards)

Material	1997 tons	2003 tons	2008 tons	1997 yards	2003 yards	2008 yards
Glass **	337	421	527	1,011	1,264	1,580
Metals **	71,082	88,852	111,066	213,246	266,558	333,197
Plastics **	300	375	469	900	1,125	1,406
Wood **	6,533	8,166	10,208	19,599	24,499	30,623
Protrusibles	5,000	6,250	7,812	15,000	18,750	23,438
Paper Products **	11,300	14,125	17,656	33,900	42,375	52,969
Yard Waste **	16,835	21,044	26,305	50,505	63,131	78,914
Other	5,000	6,250	7,812	15,000	18,750	23,438
Foundry Sand **	18,500	23,125	28,906	18,500	23,125	28,906
Concrete **	65,000	81,250	101,562	65,000	81,250	101,562
Fly Ash **	17,500	21,875	27,344	17,500	21,875	27,344
Soils/Sludges						
Other Commercial	5,000	6,250	7,812	15,000	18,750	23,438
C&D	10,000	12,500	15,625	30,000	37,500	46,875
Mics.	1,000	1,250	1,562	3,000	3,750	4,688
Totals	**233,387**	**291,734**	**364,667**	**498,161**	**622,701**	**778,377**

Note: 1997 estimated diversion is based on survey results from processing facilities. Some estimates, such as "other commercial, and C&D" are estimates based on statistical averages from EPA. 2003 estimates are projections of a 25% increase from 1997, and 2008 estimates are also projections of a 25% increase over 2003.

* - Note that glass, metal, and plastic diversion rates do not reflect the over 90% recovery rate of beverage containers due to the bottle bill. These numbers reflect materials coming through the recovery facilities only.
** - These figures are derived from survey results from area processors.

Market Availability for Collected Materials

Material	In-State Markets	Out-of-State Markets
Total Plastics	33%	66%
Newspaper	60%	40%
Corrugated Containers	75%	25%
Total Other Paper	85%	15%
Total Glass	50%	50%
Grass and Leaves	100%	0%
Total Wood Wastes	95%	5%
Construction and Demo.	100%	0%
Food and Food Processing	95%	5%
Tires	Unavailable	Unavailable
Total Metals	50%	50%

Due to market fluctuations, market destination and prices are difficult to predict or estimate, however, these estimates show the likely destination of most recyclable materials.

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 mis-communication 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. The following is a listing of programs offered or proposed to be offered in this County.

Program Topic	Delivery Medium	Targeted Audience	Program Provider
Recycling	Flyers and newsletters	General public	County DPW
Composting	Workshops, Newsletters	General public	MSU Extension
HHW	Flyers, Web Site, Advertisements, newsletters	General public	County DPW

Timetable for Implementation

TABLE III-12

Activity	Estimated Date
Maintain curbside recycling programs for all residents in the City of Muskegon, Roosevelt Park and the Villages of Fruitport and Ravenna	On-Going
Maintain curbside recycling opportunities throughout the County.	On-Going
Increase participation in the County's HHW program.	On-Going
Develop Web page for HHW information.	2000
Create Web page with recycling information.	2000
Encourage more communities to offer curbside recycling	on-going

Siting Review Procedures

This review process shall be completed by all individuals, partnerships, associations public or private corporations; and all local, state, or federal units of governments who wish to develop any new facility or site as regulated by the Solid Waste Management Act, PA451, Part 115. For the purpose of this review, solid waste facilities are defined as Type II and Type III landfills, transfer stations (Type A and B) subject to permit and licensing requirements under PA 451, Part 115, processing facilities and municipal solid waste (MSW) incinerators.

A. The applicant shall first notify the Solid Waste Planning Committee, in writing, of their intent to develop a solid waste disposal facility in Muskegon County.

B. The solid Waste Planning Committee shall schedule a meeting to review the consistency application. This meeting is to be held within 60 days of notification by the application of their intent to develop a solid waste disposal facility.

C. The applicant shall provide in advance of the meeting 20 copies of the consistency application to the Solid Waste Planning Committee. This application shall consist of the following:

1. Name and address of the proposer.

2. Map showing the location of the proposed development.

3. Brief description of the facility proposed, including type and size of facility and the types, amounts and sources of waste to be processed or disposed.

4. Maps showing the proposed physical layout of the facility in relation to the physical features indicated as location standards in the siting criteria.

5. A signed statement indicating the proposer's willingness to provide for related road improvement and or maintenance.

6. A signed statement indicating the proposer's agreement to report the data required by the operational requirement portion of the siting criteria.

7. If the proposal is for a landfill, a final use plan and a signed statement indicating the proposer's intention to consult periodically with the host municipality about post-closure use of the site.

8. If the proposal is for a transfer station, a description of the ultimate disposal facility to be used for solid waste for ash disposal.

9. A copy of the Advisory Analysis performed in accordance with PA 451, part 115 if available.

D. During the Solid Waste Planning Committee meeting, the applicant shall make an informal presentation that, at a minimum, shall address: 1) the reasons for the request and the need for the facility, site, or plan change; 2) details regarding the material, process, or method of disposal being proposed; 3) the anticipated impact on the existing solid waste management system. The applicant shall also respond to any questions and concerns the Planning Committee may have.

E. Following this presentation, the Solid Waste Planning Committee shall within thirty days of the meeting, make one of the following findings based upon the proposal's compliance with the site selection process outlined in this section.

1. The proposal is consistent with the Plan. This finding does not waive hearing or review opportunities provided for in PA 451. Part 115 and required after submission of an application for a construction permit to the DEQ. If found to be consistent, a letter explaining the consistency determination will be forwarded to the applicant and to DEQ by the Solid Waste Planning Committee.

2. The proposal is inconsistent with the Plan. The applicant shall be notified of the findings in writing along with specific reasons why the proposal was found inconsistent with the Plan. The applicant will then have 30 days to review the revised material and make its determination, and this determination shall be final. If the applicant fails for any reason to correct and resubmit the application package within the 30-day period, the review process ends. The applicant may, however, reapply at a future date.

This process shall not take longer than 150 calendar days (from the time an application package is submitted) to be completed. If the 150 day maximum time frame is exceeded, a letter of consistency shall automatically be issued by the Solid Waste Planning Committee.

It should be noted that the final determination of consistency with the Update shall be made by the Director of DEQ upon submittal of a construction permit application by the proposer. The DEQ shall review the determination make by the County to determine that the criteria have been appropriately applied and the review procedures properly adhered to.

Siting Criteria and Process

The following describes the procedures and criteria to be followed in determining suitability of Type II solid waste disposal facilities or expansions to existing Type II facilities not previously authorized in the Muskegon County Solid Waste Management Plan Update.

A. No more than one facility may be sited in any one municipality, as defined by PA451, Part 115, at one time, with the exception of facilities that have a direct operational relationship to one another (i.e., a solid waste processing facility and a landfill or transfer station).

B. Solid waste disposal facilities shall not be located or permitted to expand on land owned by the United States of America or by the State of Michigan. Disposal areas can be located on State land only if both of the following conditions are met:

1. Thorough investigation and evaluation of the proposed site by the applicant indicates to the satisfaction of the DEQ that it is suitable for such use.

2. The State determines that the land may be released for landfill purposes and the applicant acquire the property in fee title from the State in accordance with State requirements for such acquisition.

C. The active work area of facilities may not be located in, or within 300 feet of a wetland regulated by Part 303, Wetlands Protection, of Act 451.

D. The active work area of facilities may not be located within 300 feet of any 100-year flood plain as defined by Rule 323.311 of the administrative rules of Part 31, Water Resources Protection, of Act 451.

E. The active work area shall not be located within 300 feet of any lake or stream as defined by Part 301, the Inland Lakes and Streams Act, of Act 451.

F. The active work area shall not be located closer than 300 feet to any municipal park, State park, State game area, or national wildlife refuge area.

G. Facilities may not be located on property registered under the Farmland and Open Space Preservation, of Act 451. Such registration must not be in effect for the property in question at the time a developer applies to the County for a consistency determination.

H. Facilities may not be located within 10,000 feet of a runway of a public use airport licensed by the Michigan Aeronautics Commission.

I. Facilities my only be located on property that is zoned agricultural, industrial, commercial or another designation appropriate for solid waste disposal areas. Such zoning designation must be in effect for the property in question at the time the developer declares to a County agency the intention of seeking a consistency determination. Facilities may be located on unzoned property if zoning is not in effect in the host municipality.

J. All facilities shall be located on property having direct access to a paved all-weather road capable of withstanding heavy truck traffic in all seasons. If there is no such road currently serving the site, the developer shall enter into a written agreement with the Muskegon County Road Commission to provide for upgrading and/or maintenance of the road servicing the facility. To be consistent with the Plan, the applicant must state in writing the intention to enter into such an agreement.

If the only access to the site entrance is directly through a residential subdivision whose roads were constructed primarily for local traffic, the proposal is inconsistent with this plan.

K. At the time the consistency determination request is submitted to the County, the active work area of the proposed facility shall not be located closer than 500 feet to any residence (other than that of the facility operator) or commercial building (that is not part of the facility).

In order for a proposed Type III Landfill, transfer station, processing facility or MSW incinerator to be consistent with the update, the application must meet appropriate siting criteria requirements:

New Sites

The Solid Waste Planning Committee has determined, from the information available, the existing Type II landfills provide adequate capacity in Muskegon County for the period of this plan update. The County of Muskegon has requested that the two County-run wastewater facilities (Metro - Egelston and Moorland Townships and the Whitehall facility) be included as potential sites for Type II waste disposal facilities with the designation of "Monofill" with only sludge taken from the wastewater facilities and stabilizing materials being land filled in them. However, other than these specific, no new Type II general refuse solid waste disposal facilities will be located within the boundaries of Muskegon County during the five-year period following the adoption of this update. Should existing Type II facilities find it necessary to expand their operational capacity within this five-year period, they shall be required by this plan to comply with the local Solid Waste Facility Review Process as described in the previous section.

Muskegon County produces large amounts of Type III materials. Transportation costs are a major factor in disposing of these materials. Special consideration will be given to alternative Type III disposal sites within the five-year planning period. Due to the varying nature of Type III materials and the case-by-case determination of environmental impacts of such materials, each applicant wanting to construct a new Type III facility must submit plans and an application for review to the Solid Waste Planning Committee, as outlined in the previous section.

It should be noted that a foundry sand recycling facility (Resource Recovery Corporation) planned for location in Dalton Township did receive a letter of consistency with the siting criteria in previous plan update of 1991. Construction permit was granted by MDEQ but has since expired but option is still open for renew of permit. See attached information for details.

Out of County Agreements (Import/Export Restrictions and Authorizations)

The Muskegon County Solid Waste Planning Committee and its designated Planning Agency have made an effort to maintain familiarity with Solid Waste Planning efforts in adjacent and nearby counties and to become knowledgeable with regard to facilities and resources provided in such areas and with the efforts being made by those counties to preserve and maintain those facilities and resources. It is anticipated that continuing effort will be made to remain knowledgeable of such regional developments and that cooperative efforts will be pursued.

Export and Import - Background

Muskegon County has maintained an integrated solid waste management plan which historically has included the White Lake Landfill, the Muskegon County Solid Waste Facility, the Muskegon County Type III facility, a number of municipal or privately operated transfer facilities, together with on-going solid waste planning, public education, and a number of programs to encourage waste reductions, recycling, pollution prevention, and control of household hazardous waste.

As part of this integrated system, the 1990 Solid Waste Management Plan acknowledged the existence of both import and export of flow between Muskegon and certain neighboring counties, but stopped short of explicitly authorizing such import and export due to lack of data, interpretive questions and other delays. However, it now appears that these difficulties have been overcome and, therefore, the Committee now recommends that the Plan quantify permissible import and export quantities more specifically.

In establishing import and export authorizations, and restrictions, the Committee has considered such factors as resources available throughout the area, together with customer and hauler convenience and providing the waste flowage necessary to maintain those local solid waste resources and facilities necessary to the maintenance of the County's integrated System, and to address unmet disposal needs of neighboring counties, consistent with the goals of this Plan.

Based upon such factors and considerations, the Committee has concluded that every effort should be made to achieve maximum flexibility and to impose restrictions only where reasonably necessary in order to achieve the goals of the Plan.

Export Authorizations

As a starting point for authorizing exports, the Committee has recognized that certain industrial and commercial waste generation, including foundry sand, fly ash, soils and sludges, or materials such as concrete and asphalt, and construction and demolition, pose significant disposal problems in the absence of reliance upon larger, specialty facilities provided in neighboring counties. Accordingly, the Committee recommends that haulers be authorized to export same to neighboring counties without restriction.

With respect to locally generated residential, commercial and miscellaneous wastes, which the Committee is utilizing as current 260,000 ton annual estimate. The Committee recommends that the Plan update permit a limited amount to be disposed of in certain adjoining counties with the total authorized amount, not to exceed 100,000 tons annually, subject to appropriate annual adjustments and subject to provision for contracting mechanism as provided below.

Export Restrictions

Utilizing the foregoing 260,000 ton estimate of locally generated residential, commercial and miscellaneous waste product, the plan update would restrict the export of 160,000 tons, which is the quantity estimated by the Committee as being necessary for a fully integrated plan.

Consequently, the Committee would be recommending that an authorized amount not to exceed 100,000 tons annually be authorized for export to the following counties as authorized in their respective solid waste plan input authorization: Ottawa, kent, Ionia, Montcalm, Monistee, Lake, and Mason counties, subject to the following:

The Committee is aware, however, that neighboring Kent County, which permits limited amounts of waste generated within Kent County to be exported (in an effort to assure waste flowage necessary to its plan and facilities) has, through utilization of voluntary contracts with haulers, provided a mechanism to achieve such objective without necessity of specific enforcement of the plan. The Committee recommends that this approach be attempted by Muskegon County. The Committee believes that such latter quantity can be achieved by the County through a combination contract commitment from hauler and from a loosening of import restrictions (see below).

The decision, however, to use such contract approach must be made by the County which, through its Board of Public Works, provides for most of the County's integrated plan inasmuch as execution of agreements providing for more exportation would result in less programming being offered through its integrated system approach. The Committee is advised and informed that such reduced programming would not jeopardize the integrated plan if the County could be assured of disposals at the County Type II landfill facility of at least 91,500 tons annually, subject to moderate annual adjustments.

Accordingly, should the County, through its Board of Public Works elect and succeed in securing adequate tonnage [through import and/or assurances pursuant to hauler agreements that the annual residential and commercial tonnage disposed of at its Type II facility shall equal or exceed 91,500 tons per annum, or such other amount as that Board may deem necessary to maintenance of its integrated plan], then such contract limits of exportation would apply, subject to any amendments to this plan.

In the event such contracts are not executed within sixty (60) days of adoption of this update, are not renewed, or are terminated by the County pursuant to termination provisions in said contracts, then the Committee recommends that the Board of Public Works would be requested to give thirty (30) days notice to all municipalities and licensed waste haulers within the County, whereupon the export tonnage limitation set forth above shall become effective.

Import Authorizations and Limitations

Consistent with the objective of maintaining maximum flexibility with regard to imports and exports, and recognizing that imported material could assist the current County Board of Public Works' operated Type II facility in obtaining needed tonnage to support the plan, the Committee recommends that no limit be established on the importation of Type II solid waste.

The committee recognizes, however, that the County Board of Public Works may elect not to accept imported waste at its Type II landfill facility. Recognizing that the County wishes to preserve capacity for internally generated wastes, the Committee recommends that the County Board of Public Works authorize receipt of imported waste at its Type II facility in the annual amount of 46,000 tons, which is approximately one-half of the level needed by the County to maintain its ongoing efforts. This, however, does not constitute a limit under the Plan; accordingly, County Board of Public Works may elect to receive Type II Solid Waste without limitation from outside sources.

Management Component of Plan

The Committee recommends that the Muskegon County Board of Commission to provide for ongoing management of this Plan, and if necessary, adopt a county-wide ordinance consistent with this plan in order to assure compliance. However, the Committee recommends that said Board of Commission not adopt such an ordinance unless it is satisfied that all other means for enforcing the plan will prove inadequate. In the event any such county ordinance were to be deemed unlawful by a court of competent jurisdiction, then the Committee would recommend that the Board, as part of its ongoing management effort, attempt to pursuade cities and townships to adopt appropriate identical ordinances providing for the enforcement of this plan.

APPENDIX A

ADDITIONAL INFORMATION

REGARDING THE

SELECTED

SYSTEM

EVALUATION OF RECYCLING

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

Material	1997, in tons	2003, in tons	2008, in tons
Glass	337	421	527
Metals	71,082	88,852	111,066
Plastics	300	375	469
Wood	6,533	8,166	10,208
Food	5,000	6,250	7,812
Paper Products	11,300	14,125	17,656
Yard Waste	16,835	21,044	26,305
Foundry Sand	18,500	23,125	28,906
Concrete	65,000	81,250	101,562

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.

Muskegon County does not own or operate any recycling or composting equipment and does not intend to do so in this planning period. All facilities and equipment is owned and operated by private sector. See Table II-1.

Composting Operating Parameters

All composting operations are privately owned and operated and monitoring of said operations is on an individual operations bases. See Table III-2.

Coordination Efforts

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

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

Currently, the City of Muskegon has contractual agreement with Sunset Waste for collection, transportation and processing and disposal of residential wastes. (Including recycling)

The City of Roosevelt Park has contractual agreement with Sunset Waste for collection, transportation and processing and disposal of residential wastes. (Including recycling)

Currently, the Villages of Fruitport and Ravenna also has contractual agreement with Sunset Waste for collection, transportation and processing and disposal of residential wastes. (Including recycling

All other official agreements are between private haulers and private processing facilities as well as between private haulers and residents.

The County of Muskegon will continue to promote recycling facilities throughout the County as well as provide educational materials, however, without official agreements.

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

Type II Landfills

Muskegon County Solid Waste
Moorland Township, Muskegon County
Autumn Hills Recycling and Disposal Facility
Zeeland Township, Ottawa County
Ottawa County Farms
Polkton Township, Ottawa County
South Kent Landfill
Kent County
Pitch Landfill
Orleans Township, Ionia County
Central Landfill
Pierson, Montcalm County

Type III Landfill

Muskegon County Solid Waste
Moorland Township, Muskegon County (scheduled to close 2002)

Transfer Stations

White Lake Area Transfer Authority (Type B)
Whitehall Township, Muskegon County
Holton Township (Type B)
Holton Township, Muskegon County
Cedar Creek Township (Type B)
Cedar Creek Township, Muskegon County
Fruitland Township (Type B)
Fruitland Township, Muskegon County
Waste Management, Inc. (Type A)
Muskegon Township, Muskegon County

Costs and Funding

The following estimates the necessary management, capital, and operational and maintenance requirements for each applicable component of the solid waste management system.

System Component	Estimated Costs	Potential Funding Sources
Resource Conservation Efforts	$100,000/Yr	Private Sector
Resource Recovery Programs	$500,000/Yr	Private Sector
Volume Reduction Techniques	$200,000/Yr	Private Sector
Collection Processes	500,000/Yr	Private Sector
Transportation	$500,000/Yr	
Disposal Areas	NA	Private and Public
Future Disposal Areas	NA	NA
Management Arrangements	NA	NA
Educational Programs	$25,000/Yr	Private and Public

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:

A. Technical feasibility - although many items are considered technically recyclable, there is a need for tremendous volumes of materials to make them technically feasible to collect, transport and process.

B. Cost - the costs of implementing a program must be weighed against the return in environmental benefit. Also, costs of startup, maintenance, and labor must be reviewed.

C. Public vs. Private - Private sector has taken the lead in many areas due to cost cutting concerns and market forces. Review must be given as to the appropriateness of the public sector competing against private operations.

D. Environmental Impact - an overall array of environmental considerations must be given when studying alternatives. In some cases, the environmental benefit may outweigh cost considerations if there is a significant environmental threat that needs to be addressed.

Advantages and Disadvantages of the Selected System

Advantages

1. Infrastructure and operations are already in place.
2. Utilize current resources.
3. Can be enhanced by promotion and education.
4. Relies on private sector and market forces.

Disadvantages

1. Relies on private sector and market forces.
2. Does not mandate increased recycling or waste reduction via ordinance.

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.

SYSTEM COMPONENTS:

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

RESOURCE CONSERVATION EFFORTS:

Same as Alternative 2. See page 43.

VOLUME REDUCTION TECHNIQUES:

Same as Alternative 2. See page 43.

RESOURCE RECOVERY PROGRAMS:

Same as Alternative 2. See page 46.

COLLECTION PROCESSES:

Same as Alternative 2. See page 19.

TRANSPORTATION:

Same as Alternative 2. See page 19.

DISPOSAL AREAS:

Same as Alternative 2. (Except no allowance for out-of-county wastes) See facility descriptions on pages 29 - 42.

INSTITUTIONAL ARRANGEMENTS:

Same as Alternative 2. See page 49.

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Same as Alternative 2. See page 48.

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

System Component	Estimated Costs	Potential Funding Sources
Resource Conservation Efforts	$100,000/Yr	Private Sector
Resource Recovery Programs	$500,000/Yr	Private Sector
Volume Reduction Techniques	$200,000/Yr	Private Sector
Collection Processes	500,000/Yr	Private Sector
Transportation	$500,000/Yr	
Disposal Areas	$1,500,000/Yr	Private and Public
Future Disposal Areas	NA	NA
Management Arrangements	NA	NA
Educational Programs	$25,000/Yr	Private and Public

EVALUATION SUMMARY OF NON-SELECTED SYSTEM:

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

In general, the evaluation is the same for this alternative as for Alternative 2, however, it did not allow for proper restrictions on imports and exports.

PUBLIC PARTICIPATION AND APPROVAL

Solid Waste Planning Committee

Name	Representing	Affiliation
Tom Evenhouse	Solid Waste Management Industry	Sunset Waste
Tom Hylland	Solid Waste Management Industry	Wood Trucking
Russ Jones	Solid Waste Management Industry	RMS Disposal
Steve Bolhuis	Solid Waste Management Industry	Fisher Steel
David Walborn	Industrial Waste Generator	Resource Recovery Corp.
Tanya Cabala	Environmental Interest Group	Lake Michigan Federation
Duane Trombly	Environmental Interest Group	
Martin Hulka	County Government	
Roland W. Crummel	Township Government	Laketon Township
Robert Kuhn	City Government	City of Muskegon
Louis McMurray	WMSRDC	Board Member WMSRDC
Harold Drake	General Public	
Doug Wood	General Public	
John Moran	General Public	

** Steve Bolhuis has resigned effective March 11, 1999. Fisher Steel has been purchased and renamed.
** Tom Evenhouse has officially replace Jeff Hughes from same company for same representation.
** Tanya Cabala has resigned as chair and from committee.

Selection Process

1. County staff contacted a number of organizations for recommendations for representation on this Committee. These included the Muskegon Township Association, City Mayors and Managers Association, and the West Michigan Shoreline Planning Commission. Staff also contacted elected officials throughout the County to solicit recommendations. Finally, staff made recommendations to the Muskegon County Planning Commission and the Muskegon County Board of Commissioners for appointment to the MCSWPC.

2. Staff also recommended the formation of a Technical Review Committee comprised of local municipal public works staff and other environmental interests to assist in the review of the plan, handle technical questions and issues and make recommendation to the MCSWPC for action. This group was also appointed by the Muskegon County Board of Commissioners.

MUSKEGON COUNTY

M I C H I G A N

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DEPARTMENT OF PUBLIC WORKS

Robert L. Zettell, Director

PUBLIC WORKS BOARD

Louis McMurray, Chair
Clarence Start, Vice Chair
Martin Hulka, Secretary
Paul Baade
Nancy G. Frye
Jacob O. Funkhouser
Bill Gill
Kenneth Hulka
James J. Kobza

MEMORANDUM

TO: Robert Ribbens

FROM: John K. Warner

DATE: 1 March 2000

SUBJECT: Solid Waste System Capacity

In accordance with your request, following is a summary of the computed remaining capacity of the current landfill site on M-46 which includes the currently operating cells #2 and #3 and the proposed future cells #4 and #5.

Cells	Total Gross Capacity (CYD)	Total Net Capacity (CYD)	Capacity Filled (CYD)	Capacity Remaining (CYD)	Capacity Remaining (TONS)	Expected Life (YEARS)
2&3	2,159,108	1,727,286	1,137,224	590,062	324,534	4.33
4&5	1,778,111	1,422,489	0	1,422,489	782,369	10.43
			Totals	**2,012,551**	**1,106,903**	**14.76**

The above is based on an assumed annual receipt rate of 75,000 tons which is compacted in place to a density of 1100 pounds-per-cubic yard. The net volume is assumed to be 80% of the gross volume which accounts for daily cover, road material, etc. The volumes of the existing cells #2 and #3 are as of end of FY 1999. The above table was originally computed in association with the Year 2000 Rate Study for the Muskegon County Solid Waste Management System.

MUSKEGON COUNTY
SOLID WASTE PLANNING COMMITTEE
APRIL 1, 1999
2:00 P.M.

ATTENDANCE:
John Warner, DPW
John Moran, Public
Fred DeHudy, DPW
Tanya Cabala, LMF
Don Laskowski, Whitehall Township
Marty Hulka, Drain Commissioner
Dave Walborn, RRC/Industry
Russ Jones, RMS Disposal, Inc.
Doug Wood, Public
Bob Kuhn, City DPW

The meeting was called to order by Chair Tanya Cabala at 2:00 p.m.

The topic of the meeting is siting criteria.

The handouts included the minutes from the meeting held 3-19-99, the Site Selection Review Process (version 1 from the 1990 plan update), Review Procedure (version 2 from the 1990 plan), excerpt from State Plan regarding Facility Siting Procedure, and an example from Kent County entitled Selected System.

In reviewing the 1990 plan, it was discovered that there are two different versions.

Robert Ribbens stated that the criteria in version 2 (entitled Review Procedure) is essentially consistent with the State criteria.

The Act numbers need to be updated in version 2.

There was discussion regarding local ordinances and regulations affecting solid waste disposal.

Moved by John Moran, supported by Douglas Wood, to accept the 1990 siting procedures and criteria (as listed in version 2) and adopt them as the siting procedures and criteria for this plan.

Motion carried

Moved by Robert Kuhn, supported by Douglas Wood, to accept the allowances for local municipalities to have appropriate control as listed in the State Boiler Plate Plan including lighting and signage.

management to continue.

Robert Kuhn would like to see an outline of the additional services the county would provide.

Steve Corwin stated that the issue to be determined is whether the committee would support the concept of flow control.

There was concern about the high amount of tonnage required for undefined programs.

There was concern regarding the legality of setting county export limits, then being changed by contracts with haulers.

It was suggested that staff meet with the haulers.

Moved by Doug Wood to approve the concept as outlined by Steve Corwin.

Motion failed for lack of support

Moved by Robert Kuhn, supported by Martin Hulka, to support the concept striking any references to tonnage, however, using a minimum amount needed to assure viability of the county landfill.

Motion carried

The next meeting is April 1, 1999, 2:00 p.m., regarding the siting issue.

The meeting adjourned at 3:35 p.m.

Moved by Martin Hulka, supported by Dave Walborn, to amend the motion to include lighting and signage and delete recycling and composting.

Roll call: Ayes - Kuhn, Hulka, Walborn, Moran, Jones
Nays - Wood, Cabala

Motion to amend carried

Original motion as amended carried

It was suggested that the composting and recycling issue be reviewed for the next solid waste plan.

The next meeting will be Friday, April 30, 2:00 p.m. The topic will be implementation.

The meeting adjourned at 3:25 p.m.

MUSKEGON COUNTY

SOLID WASTE PLANNING COMMITTEE

APRIL 30, 1999

2:00 P.M.

ATTENDANCE: John K. Warner, DPW
Tanya Cabala, Lake Michigan Federation
John Moran, Public
Duane Trombly, Environmental, White Lake PAC
Marty Hulka, Drain Office
Don Laskowski, Whitehall Township
Steve Essling, Waste Management
Robert Ribbens, County DPW
Harold Drake
Dave Walborn, RRC

EXCUSED: Russ Jones; Roland Crummel.

A quorum was not present.

The minutes from the last meeting were distributed.

The issue of flow control will be discussed at the next meeting.

It was suggested that if the members will not be attending the meetings that they notify staff.

Tanya Cabala distributed recycling of obscure materials information obtained from the Internet.

It was suggested that a web site be set up as a part of the solid waste plan.

The question was asked who would administer the plan. Since this is the first time the County is doing the plan, it is assumed that the Board of Commissioners would administer the plan.

There was discussion on administration of the plan.

It is important to identify who will administer the plan.

Marty Hulka suggested that the solid waste plan be brought to the Public Works Board for information.

Items for the next meeting:

1. Solid Waste be taken to the Public Works Board for an update.

2. Finish implementation issue - provide draft language on implementation.

3. Update on flow control.

4. Report from staff on import/export.

5. Public input information.

The next meeting will be Friday, June 4, 1999, 2:00 p.m.

MUSKEGON COUNTY
SOLID WASTE PLANNING COMMITTEE
APRIL 1, 1999
2:00 P.M.

ATTENDANCE:
John Warner, DPW
John Moran, Public
Fred DeHudy, DPW
Tanya Cabala, LMF
Don Laskowski, Whitehall Township
Marty Hulka, Drain Commissioner
Dave Walborn, RRC/Industry
Russ Jones, RMS Disposal, Inc.
Doug Wood, Public
Bob Kuhn, City DPW

The meeting was called to order by Chair Tanya Cabala at 2:00 p.m.

The topic of the meeting is siting criteria.

The handouts included the minutes from the meeting held 3-19-99, the Site Selection Review Process (version 1 from the 1990 plan update), Review Procedure (version 2 from the 1990 plan), excerpt from State Plan regarding Facility Siting Procedure, and an example from Kent County entitled Selected System.

In reviewing the 1990 plan, it was discovered that there are two different versions.

Robert Ribbens stated that the criteria in version 2 (entitled Review Procedure) is essentially consistent with the State criteria.

The Act numbers need to be updated in version 2.

There was discussion regarding local ordinances and regulations affecting solid waste disposal.

Moved by John Moran, supported by Douglas Wood, to accept the 1990 siting procedures and criteria (as listed in version 2) and adopt them as the siting procedures and criteria for this plan.

Motion carried

Moved by Robert Kuhn, supported by Douglas Wood, to accept the allowances for local municipalities to have appropriate control as listed in the State Boiler Plate Plan including lighting and signage.

Moved by Martin Hulka, supported by Dave Walborn, to amend the motion to include lighting and signage and delete recycling and composting.

Roll call: Ayes -	Kuhn	Nays -	Wood
	Hulka		Cabala
	Walborn		
	Moran		
	Jones		

Motion to amend carried

Original motion as amended carried

It was suggested that the composting and recycling issue be reviewed for the next solid waste plan.

The next meeting will be Friday, April 30, 2:00 p.m. The topic will be implementation.

The meeting adjourned at 3:25 p.m.

MUSKEGON COUNTY
SOLID WASTE PLANNING COMMITTEE
MARCH 19, 1999
2:00 P.M.

ATTENDANCE:
John Warner, MCDPW
Fred DeHudy, DPW
Douglas G. Wood, Public
Jeff Hughes, Allied Waste
Marty Hulka, Drain Commissioner
Russ Jones, RMS Disposal, Inc.
Don Laskowski, Whitehall Township
Steve Essling, Waste Management
Louis McMurray, WMSRDC
Bob Kuhn, City of Muskegon
Roland Crummel, Laketon Township
Steve Corwin, County Corporate Counsel
Robert Ribbens, DPW

The meeting was called to order by Mr. McMurray at 2:05 p.m.

Robert Ribbens distributed a copy of the revised goals and objectives that incorporated the changes from the last meeting.

Moved by Douglas Wood, supported by Roland Crummel, to accept the goals and objectives as presented.

Steve Corwin, County Corporate Counsel, stated that he met with Robert Ribbens to review the goals and objectives and the proposed changes. Mr. Corwin stated that the goals and objectives set forth an integrated plan for managing solid waste within the county. These goals are more focused than the goals in the 1990 plan.

Motion carried

Robert Ribbens stated that staff has met to discuss the issue of import/export of solid waste. This issue will be dealt with on a regional approach.

Steve Corwin stated that the issue of export has been addressed further than the issue of import.

Mr. Corwin distributed a letter giving a brief background on import/export issue.

Mr. Corwin stated that Section III, in concept, is an authorization for haulers to dispose of a certain quantity of locally generated solid waste into other counties. At the same time it's also a limitation on what could be discharged to other counties.

There are basically two kinds of waste - commercial/residential and industrial. There is not a great deal of capacity in Muskegon County to accommodate industrial waste of a solid waste nature. Therefore, there is no need for limitations on industrial waste for the 5 year plan. It is recommended that there be no limitations on the exportation of industrial waste. The issue of importation is not being addressed at this time.

Two estimated numbers were used for the issue of commercial/ residential waste. The first number is 260,000 tons by the year 2005 to represent the amount of the net residential/commercial/ miscellaneous materials excluding industrial waste. The second number is 160,000 tons and is based on disposal at the Muskegon County Landfill over the past 8 or 9 years. If the County Landfill disposed of 160,000 tons, it would be sufficient and adequate to support a fully "integrated" solid waste management effort.

Kent County has had flow control for a number years. They provided for flow control under their plan and they also entered into contracts with their haulers providing for a bare minimum necessary in order to insure that their cogeneration plant was viable. If contracts were negotiated with haulers in Muskegon County, a minimum of 91,500 tons would be necessary to enable

SOLID WASTE PLANNING COMMITTEE
APRIL 20, 1998
NOTES

Rol Crummel - Township rep.

Marty Hulka - County rep.

Elect Chair at next meeting.

Review of goals and objectives.

List of different landfills and transfer stations.

Under review of issues, at what point would be it be best to ask for involvement from the general public on issues. Get the issues on the table early on. Hold a preliminary hearing on goals and objectives. Solicit comments from "anybody".

The plan has to be pretty much in place by the middle of June.

Tell the State their time schedule is unreasonable.

Rob, if OK with committee, will send a letter to DEQ on behalf of the committee informing them of what's happening and that their time frame can't be met.

Discussion on recycling effort.

Recommendation to form a county wide program for recycling.

Names tags for committee members at next meeting.

One goal of committee should be to examine preservation of landfills.

Issue of regionalism on next agenda.

Send information on flow control.

Set date for next meeting - May 11 or May 14?

MUSKEGON COUNTY SOLID WASTE PLANNING COMMITTEE

July 30, 1998
3:00 PM
Emergency Services Conference Room
(Basement of County Building)

1. Election of Officers (?)
2. Discussion of Flow Control
3. Requests from various Counties for import and export authorizations
4. Review of other communications
5. Schedule of future meetings
6. Old Business
7. New Business
8. Adjourn (by 5:00 PM)

Rob - please review
fill in blanks,
add, subtract
whatever!
KB.

MUSKEGON COUNTY SOLID WASTE
PLANNING COMMITTEE
JULY 30, 1998
EMERGENCY SERVICES CONFERENCE ROOM
(BASEMENT OF COUNTY BUILDING)

The meeting was called to order at 3:00 p.m. by Robert Ribbens.

Members
Present: Martin Hulka; Russ Jones; Harold Drake; John Moran; Tom Hyland; Doug Wood; Fred DeHudy; Robert Ribbens; John Warner; Rol Crummel; Dave Walbourn; Jeff Hughes; Louis McMurray; Tanya Cabala.

Members
Excused: Duane Trombly.

Members
Absent: Bob Kuhn; Steve Bolhuis.

ELECTION OF OFFICERS

Moved by Mr. Louis McMurray, supported by Mr. Rol Crummel, to appoint Tanya Cabala Chair of the Muskegon County Solid Waste Planning Committee.

Motion carried

Moved by Mr. Louis McMurray, supported by Mr. Jeff Hughes, to appoint Harold Drake Vice Chair of the Muskegon County Solid Waste Planning Committee.

Motion carried

DISCUSSION OF FLOW CONTROL

A memorandum regarding flow control mechanisms prepared by legal counsel was distributed with the agenda. The memo indicates that Muskegon County may implement flow control regulations. The volume level at the landfill needs to be maintained.

A lengthy discussion followed regarding flow control of solid waste.

A number of requests have been received from other counties for reciprocal agreements for authorization to utilize the county landfill.

It was suggested that a subcommittee be appointed to study the issue of import/export of solid waste and report back to the Solid Waste Committee with a recommendation.

Question - what are the points for/against flow control? Are there other options (from not doing it to total flow control)? What other alternatives are there to choose from? These questions will be presented to the Technical Committee for their input.

REQUESTS FROM VARIOUS COUNTIES FOR IMPORT AND EXPORT AUTHORIZATIONS

Robert Ribbens stated that there is no recommendation regarding the requests from various counties for import and export authorizations. Robert Ribbens will contact representatives from other counties regarding these requests. These requests will be referred to the Technical Committee for their input.

REVIEW OF OTHER COMMUNICATIONS

Robert Ribbens stated that he requested from the Technical

Committee numbers of waste generation/disposal in different areas of the county. A response was received from Muskegon Charter Township regarding how they handle some of their waste. Copies are on file. Basically they operate their own garbage collection.

Charlevoix County Planning Department is asking _____

_____

_____

Mr. Ribbens will contact them to let them know _____

_____

Department of Environmental Quality - Notice of Potential Violation to the County Solid Waste Management Plan. This item is taken care of????? _____

_____

_____

A communication was received from Tanya Cabala. A copy will be provided to all members.

A solid waste report for the year 1997 was received from the City of Muskegon Heights.

SCHEDULE OF FUTURE MEETINGS

A tentative meeting day of the last Thursday of the month was set for the Solid Waste Committee meetings. The next meeting will be Thursday, August 27, 3:00 P.M., in the Emergency Services room.

OLD BUSINESS

None.

NEW BUSINESS

Copies of the notes from the last meeting held April 20, 1998, were distributed.

Moved by Mr. Harold Drake, supported by Mr. John Moran, to approve the notes of the meeting held April 20, 1998.

Motion carried

Tanya Cabala distributed some information regarding issues of solid waste.

Comment sheets will be distributed to users of the county landfill for their comments/input.

ADJOURN

The meeting adjourned at 4:15 p.m.

Tanya Cabala, Chair

kb

Muskegon County Solid Waste Planning Committee

Agenda

28 January, 1999
3:00 PM
Building "B", Muskegon County South Campus

I. Update on Solid Waste Plan Update - review of progress

II. Set up Process of Review and Completion

- **A. Schedule for Completion**
- **B. Public Involvement (presentation and public meetings)**
- **C. Process for assimilating comments (role of Technical and Planning Committee)**

III. Major issues yet to complete - overview

IV. Initial Questions and Answers on current draft of plan

V. Adjourn (by 5:00 PM)

NOTE: Current draft of plan is mainly a collection of data for review and inclusion in final plan as well as a base for developing future plans. It should be noted that staff is currently developing language for more options for review by the Technical Committee and recommendation to the Full Planning Committee.

SOLID WASTE PLANNING COMMITTEE MEETING
SOUTH CAMPUS
JANUARY 28, 1999
3:00 P.M.

Members
Present: Dave Walborn, Resource Recovery
Duane Trombly
Louis McMurray, W.M.S.R.D.C.
Steve Bolhuis, Fisher Steel
Donald Laskowski, Whitehall Township
Russ Jones, R.M.S. Disposal, Inc.
John Moran, Citizen
Martin Hulka, County
Harold Drake, Village of Ravenna
Tanya Cabala, Lake Michigan Federation
John Warner, County DPW

Staff
Present: Robert Ribbens
Karen Boukamp

A sign up sheet was passed around.

Robert Ribbens stated that most of the draft plan so far is a compilation of data that had to be collected. There is not much "planning" done yet. This is the base on which the planning will be derived. Census data was used and different agencies were contacted to get the data. The State format had to be used to present the data.

Tanya Cabala suggested that a process for reviewing the document be discussed at this meeting and for incorporating public input. Ms. Cabala suggested that the draft be broken into segments for review.

Setting good goals is an important part of the plan. It was suggested that a facilitator be used in the goals part of the plan.

A facilitator involved with solid waste issues should be used to

understand the issues and goals.

As part of the work with Corporate Counsel on the plan, contractual agreements with waste haulers have to be included in the goals of the plan.

John Moran suggested that a section be added - "how are we going to do this" - how to evaluate/implement.

What parts of the plan have to be completed yet?

Have a very definitive outline stating what has been done and what gaps need to be filled in.

Siting criteria - define criteria.

Goals - more specific.

The goal has to be what we want to do and what we're capable of doing.

Import/export is dictated by the local plan.

It's important to remember that the plan is a 5-year plan.

Tanya Cabala suggested having one meeting to discuss one topic of the plan.

Duane Trombly suggested reviewing the data base information first. Get the data, determine goals and objectives and then write the plan.

Each municipality has to adopt the 5-year plan.

What is Board approval process? Go to Public Works Board before going to municipalities?

Robert Ribbens will prepare an outline on what needs to be completed on the plan.

Robert Ribbens suggested the following order for meetings:

1. Data base
2. Goals/alternatives
3. Siting
4. Public involvement
5. Implementation

Meeting schedule:

February 19 - 2:00 p.m. - goals/alternatives - check into a facilitator

March 5 - 2:00 p.m. - siting

March 19 - 2:00 p.m. - public involvement

April 1 - 2:00 p.m. - implementation

A copy of the meeting schedule will be mailed to each member.

Robert Ribbens gave an overview of the data base information.

Have public comment on problems?

Identify problem areas - tires, batteries, etc.

Reduction of industrial waste.

Include Engle under composting section.

Mr. McMurray requested an update on tires at the next meeting.

The meeting adjourned at 4:55 p.m.

MUSKEGON COUNTY
SOLID WASTE PLANNING COMMITTEE
3-5-99

ATTENDANCE: John Warner, Muskegon County DPW
Fred DeHudy, Muskegon County DPW
Douglas G. Wood, Citizen
Dave Walborn, RRC
Tanya Cabala, LMF
Rol Crummel, Laketon Township
Marty Hulka, Drain Office
Robert Ribbens, DPW
Donald Laskowski, Whitehall Township
John Moran, Public
Louis McMurray, WMSRDC/Commissioner
Bob Kuhn, City of Muskegon DPW

EXCUSED: Harold Drake

The meeting came to order at 2:05 p.m.

The agenda was reviewed with no comment.

The minutes from the last meeting were reviewed with no changes or corrections.

The outcome for this meeting is to review the goals and objectives and siting criteria.

The goals and objectives were reviewed. Changes will be made as discussed.

Siting criteria will be discussed at the next meeting on Friday, March 19, 1999, 2:00 p.m.

The meeting adjourned at 3:55 p.m.

Rob: please review

MUSKEGON COUNTY
SOLID WASTE PLANNING COMMITTEE
JUNE 24, 1999
2:00 P.M.

Attendance: Marty Hulka
Doug Wood
Duane Trombly
Don Laskowski
John Moran
Louis McMurray
John Warner
Robert Ribbens
Roland Crummel
Bob Kuhn
Harold Drake
Tanya Cabala
Steve Corwin

Excused: Jeff Hughes
Tom Hylland
Russ Jones
David Walborn

Call To Order

The meeting was called to order by Robert Ribbens at 2:10 p.m.

Approval Of Minutes

Moved by Louis McMurray, supported by Harold Drake, to approve the minutes of the meeting held April 1, 1999.

Motion carried

Review of the Solid Waste Plan Update

Duane Trombly - the population data used in the plan was from 1996. The 1998 population data is available. Something should also be included for seasonal and tourist population, in particular summer cottages, condos, boats, camps and campgrounds. Robert Ribbens will review an EPA report to see if there are any

estimates on that issue. It may also be helpful to check with the haulers. This information may be added to page II-14.

Duane Trombly - on page I-1, paragraph 2, White Lake Landfill is located in the Township of Whitehall, not the City of Whitehall. Operational status should be marked "Closed".

There is a landfill east of White Lake Landfill that is accepting dredging material from the marinas on White Lake. Is this Waruszewski?

Robert Ribbens suggested that all corrections be submitted to him in writing.

Tanya Cabala distributed a list of questions/comments regarding the solid waste update draft.

Tanya Cabala - is the DPW response to the implementation referenced in the plan?

Robert Ribbens stated that there is no specific wording on implementation.

Moved by Louis McMurray, supported by Martin Hulka, that the material submitted by the Chair be forwarded to Robert Ribbens for review.

Doug Wood questioned that if there were significant changes in the plan because of the committees comments after the meeting, the Committee would have to meet again to approve the plan.

Duane Trombly stated that the implementation issue is significant.

Robert Ribbens stated that there will also be comments that need to be incorporated into the plan from the public hearing period.

Tanya Calaba - some of the issues are major like the issue of alternatives. She also has some questions on clarity on the Executive Summary.

Roll call - Ayes: Marty Hulka; Doug Wood; John Moran; Louis McMurray; Bob Kuhn; Harold Drake.

Nays: Duane Trombly; Roland Crummel; Tanya Cabala.

Motion carried

Export/Import Issue

Robert Kuhn stated that he is concerned about the specific tonnages put on exports/imports.

Robert Ribbens stated the approach was that a certain tonnage is needed at the landfill to remain viable. Export needs to be restricted. Allowance is also there for the big haulers that if they will not use the county landfill, there is still an option that some of their out of county accounts can be brought in. There is no specific number as to how much can be brought in. Ultimately the Board of Public Works through contractual agreements can set a limit on how much can be imported. It is important to have broad authorization for import in the plan.

Louis McMurray stated one of the considerations of the Board of Public Works is that they didn't want to make decisions until the plan is finalized.

Tanya Cabala questioned whether the issue of who will enforce implementation of the plan has been resolved.

Robert Ribbens stated that the county is putting the plan together and thus it is responsible for implementation .

Steve Corwin stated that the county has an integrated plan which contains certain programs such as recycling, etc. To some degree, to the extent the county has been doing that, the county will probably continue to do those types of things.

Tanya Cabala stated that there is no language in the plan that says the county has official responsibility for implementing the plan. She would like to see clear language on implementation.

Steve Corwin stated that the general goal regarding import/export is to capture or control approximately 91,000 tons a year for disposal at the county type II landfill. That can be accomplished primarily by limiting the amount which can be exported. In connection with the export, however, in lieu of enforcing that limitation against haulers, the limitation on their taking that much out, or taking all of it out, the county can enter into agreements with the haulers. These agreements would be designed to basically ensure, as a matter of agreement and the amount coming in voluntarily from whatever source, that the county will end up with the 91,000 tons a year.

Steve Corwin summarized the import/export issue in that the plan is trying to limit exports in an amount sufficient to ensure that the type II landfill can remain open and trying to allow imports in an amount which will not compromise the availability of the resource for local users.

This summary on the import/export will be incorporated in the Executive Summary of the solid waste plan.

<u>Approval of Solid Waste Plan Update</u>

The public comments must be put in writing as a section of the plan even if they are not considered. Then the plan will be approved in its entirety.

Moved by Robert Kuhn, supported by Martin Hulka, to approve the solid waste plan in concept subject to revisions that may come forth so it can proceed to the public comment period.

A copy of the plan going out for comment will also be forwarded to DEQ.

Roll call: Ayes: Marty Hulka; Doug Wood; Duane Trombly; John Moran; Louis McMurray; Roland Crummel; Robert Kuhn; Harold Drake.

Nays: Tanya Cabala.

Motion carried

Set Meeting Date for Public Review Process

Robert Ribbens will review and incorporate changes to the plan within the next two weeks. When the changes are made, a notice will be sent to the committee that the plan is available for review.

The 90 day public notice will begin July 12.

Some type of public forum will tentatively be scheduled for the week of September 13.

The comments from DEQ will be forwarded to the committee members.

Old Business

There was no old business.

New Business

There was no new business.

Adjourn

Moved by Robert Kuhn, supported by Roland Crummel, to adjourn the meeting at 3:40 p.m.

Motion carried

MUSKEGON COUNTY

M I C H I G A N

990 TERRACE STREET, MUSKEGON, MICHIGAN 49442 • 616-724-6411
FAX 616-724-6673

DEPARTMENT OF PUBLIC WORKS

Robert L. Zettell, Director

PUBLIC WORKS BOARD

Louis McMurray, Chair
Clarence Start, Vice Chair
Martin Hulka, Secretary
Dennis Babcock
Nancy Frye
Jacob Funkhouser
Bill Gill
Kenneth Hulka
James J. Kobza

AUG 31 2000

Waste Management

29 August, 2000

Lynn Dumroese
Michigan Department of Environmental Quality
PO BOX 30241
Lansing, MI 48909

RE: Muskegon County Solid Waste Plan

Dear Ms. Dumroese:

Attached is the information you requested. Call me if you have any questions at 231/724-6525 or email me at ribbensro@co.muskegon.mi.us. Thank you.

Sincerely,

Robert J. Ribbens
Environmental Planner

COUNTY OF MUSKEGON
CLERK'S OFFICE

SUSAN R. DORIOT
CLERK
VITAL STATISTICS
2nd FLOOR
(231) 724-6221
FAX (231) 724-6262

990 TERRACE STREET, MUSKEGON, MICHIGAN 49442

MARIANNE HATHAWAY
CHIEF DEPUTY CLERK
CIRCUIT COURT RECORDS
6th FLOOR
(231) 724-6251
FAX (231) 724-6695

2000-163 **ADOPT THE RESOLUTION APPROVING THE MUSKEGON COUNTY SOLID WASTE PLAN - 1998 UPDATE**

The Board of Public Works recommends, moved by McMurray, supported by Start, the adoption of the Resolution approving the Muskegon County Solid Waste Plan - 1998 Update.

Motion Carried

I, Susan R. Doriot, Muskegon County Clerk, Muskegon, Michigan, do hereby certify that the above is a true and correct copy of a resolution adopted by the Board of Commissioners on March 28, 2000. In testimony whereof, I have hereunto set my hand and affixed the seal.

Susan R. Doriot

Susan R. Doriot,
County Clerk

M I N U T E S

Muskegon County
Solid Waste Planning Committee
Muskegon County Governmental Complex
South Campus, Building "B"
October 25, 1999

Present: John Warner, County
Duane Trombly, Public/Environmental
Steve Corwin, County
John Moran, Public
John Hausman, Public (*Muskegon Chronicle*)
Tom Evenhouse, Sunset Waste Services
Dave Walborn, Resource Recovery
Fred DeHudy, County
Russ Jones, RMS Disposal, Inc.
Douglas G. Wood, Public
Don Laskowski, Whitehall Township
Harold Drake, Public
Rol Crummel, Laketon Township
Bob Kuhn, City of Muskegon
Louis McMurray, W.M.S.R.D.C.

The meeting was called to order by Vice Chair Harold Drake at 2:35 p.m.

The minutes of the two public hearings on the solid waste plan were distributed for information.

Two public hearings were held - one at Muskegon County South Campus on September 13, 1999, and one at the Whitehall City Hall on September 15, 1999.

Review of Comments Received

A letter was received from Mr. Tim Westman, Director of the Muskegon County Wastewater Management System, requesting that the solid waste plan include language allowing for the siting and construction of a wastewater sludge monofill. This request includes the use of previous solid waste plan language on this subject.

Dave Walborn requested that the RRC foundry monofill facility in Dalton Township also be included in the plan which was approved as an amendment to the previous plan.

Moved by Dave Walborn, supported by John Moran, to approve the request to include the wastewater sludge monofill and inclusion

of appropriate language and to include the RRC foundry monofill facility in Dalton township in the solid waste plan update.

Motion carried

Mr. Walborn will forward the appropriate language regarding the RRC foundry monofill to Robert Ribbens.

The second set of public comments were received from Muskegon Charter Township. Comments received from David Fisher via telephone included that Muskegon Charter Township <u>does</u> offer recycling and that Section II-12 regarding deficiencies and problems in solid waste management should include construction and demolition wastes (C & D).

Staff recommendation is to include both of the above items.

Two communications were received from Don Aley, Supervisor, Muskegon Charter Township. The first communication stated that Muskegon Charter Township would be voting not to approve the plan based on the import and export policies stated in the proposed plan. The second communication was in response to a letter sent by Mr. Ribbens to Mr. Aley. Mr. Aley clarified the township's stance saying that no limits on imports or exports via the plan should be in place because it violates the Free Enterprise System. Mr. Aley also indicated that implementation of the plan would force the closure of the Muskegon Township Transfer Station. Mr. Aley also suggested that the County diversify its current operation to meet other needs such as recycling, tires, appliances, yard waste and more timely household hazardous waste (HHW) collection program.

Staff recommendation is that the import/export language as currently presented in the plan update remain as is and be implemented unless there are comments and/or changes from the Committee.

Dredge material is not included in construction and demolition wastes.

Moved by Douglas Wood, supported by Duane Trombly, to correct the plan to show recycling as being offered by Muskegon Township and include construction and demolition (C&D) wastes as a deficiency in the current waste management system.

Motion carried

Steve Corwin stated that the comments from Honigman, Miller, Schwartz and Cohn Attorneys, were written to cover what might be objectionable in all plans that might be under consideration by all counties. What is in question in both letters, from the attorneys and Waste Management, is the legality/illegality of flow control. Mr. Corwin stated that in his opinion as previously expressed to the Committee, that what is recommended

in the plan is in fact legal. It doesn't go any further than is reasonably necessary to preserve the financial viability and integrity of the plan in place now which relies principally on the existence of the county landfill. Mr. Corwin stated that based on the law he has reviewed up to this point in time, the import/export issue in the plan is lawful.

Dave Walborn stated he has a concern about the issue in the attorneys letter that the plan couldn't distinguish between different types of solid waste. Mr. Walborn's concern is that in our flow control provisions in the draft plan different types of special wastes could move without restriction or limitations.

Mr. Corwin stated that in developing a staff recommendation, it was taken into consideration what the county or community is equipped at the current time to handle and what would be of an impact to the current community if there were import or export restraints.

Mr. Corwin stated, that in his opinion, the legitimacy of import/export is going to depend on what is reasonable.

Mr. John Moran asked Mr. Corwin what Public Act 138 was as referred to in the letter from Waste Management.

Mr. Corwin stated that in reviewing the public acts involved with waste, Public Act 138 refers to the transport of hazardous materials.

Mr. Dave Walborn had questions on the comments from the State regarding the amount of exports and whether the wording in the solid waste plan could be different.

Mr. Corwin stated that more time is needed to review the State's comments on the solid waste plan.

Robert Ribbens stated that the comments from the State regarding the solid waste plan were received about 45 minutes before this meeting and staff has not had any time to review them.

Mr. Dave Walborn stated that the county has taken a step forward in taking over the solid waste plan update.

Another meeting will be held to discuss the comments from the State and the import/export language in the solid waste plan.

Steve Corwin stated that if this meeting is recessed, the reconvened meeting will not have to be public noticed. The reconvened meeting notice should be posted at the county building.

Robert Ribbens stated that he would like to take the solid waste plan to the Board of Public Works on November 9, 1999.

Moved by Robert Kuhn, supported by Louis McMurray, that Tom Evenhouse replace Jeff Hughes from Sunset Waste on the Solid Waste Planning Committee.

Motion carried

The resignation of Tanya Cabala as Chair of the Muskegon County Solid Waste Planning committee was recognized.

Several comments were received from the Lake Michigan Federation. The items were a resignation letter from Tanya Cabala as Chair of the Muskegon County Solid Waste Planning Committee and Environmental Representative for same. Comments included in the letter included dissatisfaction in staff and committee members level of interest in issues other than that of "flow control", displeasure with the executive summary of the plan and attention to recycling and waste reduction efforts and mention was made about meetings not being public noticed.

Other communications received from the Lake Michigan Federation were a letter and survey sent to "Muskegon County groups and business organizations" to garner local opinion regarding the Solid Waste Plan Update and the survey results.

The comments will be taken under advisement.

Mr. John Moran stated he hopes that in the next 5 years a more complete job will be done on solid waste in the areas outlined by Tanya Cabala and Don Aley and more responsibility will be taken toward solid waste.

Moved by Roland Crummel, supported by Duane Trombly, to place the material from the Lake Michigan Federation on the record and make it part of the public comments.

Motion carried

The meeting recessed until Monday, November 1, 1999, 2:30 p.m.

M I N U T E S

Muskegon County
Solid Waste Planning Committee
Muskegon County Governmental Complex
South Campus, Building "B"
November 29, 1999

Present: Harold Drake, Public
John Moran, Public
Tom Evenhouse, Allied Waste Industries
John Hausman, *Chronicle*
Robert Ribbens, County
Don Laskowski, Whitehall Township
Duane Trombly, Environmental Association, White Lake
Marty Hulka, County Drain Office
Dave Walborn, Industrial Generators
Rol Crummel, Laketon Township

Excused: Douglas G. Wood

The meeting was called to order by Vice Chairman Harold Drake at 2:40 p.m.

The letter from the State DEQ with their comments on the solid waste plan was distributed with staff comments.

Robert Ribbens reviewed each item.

An additional item to be corrected is that the Dalton Township type III disposal site will be added to the list of solid waste disposal areas to be used by the County under this Plan.

Robert Ribbens stated that the capacity certificate dated April 9, 1999, from Dell Engineering states the life expectancy of the landfill was 11 years, 10 months at that time. The life expectancy was based on a certain amount of waste coming in. Staff was using a different amount of waste than the memo so this item will be reviewed.

Robert Ribbens stated that reciprocal agreements are being sent out.

There was lengthy discussion on the numbers used for the maximum import/export.

Moved by Marty Hulka, supported by Dave Walborn, to allow maximum import of 46,000 tons and the maximum export of 214,500 tons and edit all tables accordingly.

Motion carried

Moved by Marty Hulka, supported by Rol Crummel, to approve the solid waste plan as presented with all editions and corrections as discussed.

Motion carried

The meeting adjourned at 4:05 p.m.

MUSKEGON COUNTY
SOLID WASTE PLAN UPDATE
PUBLIC HEARING
SEPTEMBER 15, 1999
WHITEHALL CITY HALL
7:00 P.M.

The Public Hearing was called to order by Robert Ribbens at 7:05 p.m.

Present: Duane Trombly; Don Laskowski; David Fisher; Heidi Isakson; Robert Ribbens; John Warner.

Robert Ribbens stated that a fax memo has been received from Waste Management. A copy is attached a made a part of the public hearing.

Duane Trombly, Member of the Solid Waste Plan Update Committee, representing the White Lake Association, stated he received a copy of the letter resignation of the Chair of the Committee, Tanya Cabala. The letter mentions a number of items that aren't addressed or addressed adequately in the solid waste plan. Mr. Ribbens stated that the letter will be put in the record of the public hearing.

Don Laskowski asked when staff will start attending meetings of the municipalities regarding the solid waste plan update.

Robert Ribbens stated that the tentative schedule shows the 90 day public comment period ends the week of October 12 and the Solid Waste Planning Committee will meet to make any changes needed. The plan then has to be approved by the County Board. After Board approval, the plan will be presented to the municipalities, probably sometime in November. Staff will be available to attend the meetings of the municipalities if requested to attend.

Robert Ribbens stated that comments on the solid waste plan update have been received from Waste Management, Muskegon Charter Township and the resignation letter from Tanya Cabala.

David Fisher asked if the solid waste plan has to have unanimous support.

Robert Ribbens stated that the plan needs majority approval from the Committee and 2/3 + 1 approval from the municipalities.

Robert Ribbens stated that comments from the State have not been received yet.

Robert Ribbens stated that an executive summary of the solid waste plan and language pertaining to import/export has been sent to all counties in the State of Michigan.

An executive summary from Emmett County regarding their solid waste plan has been received.

The public hearing adjourned at 7:20 p.m.

kf

MUSKEGON COUNTY
SOLID WASTE PLAN UPDATE
PUBLIC HEARING
SEPTEMBER 13, 1999
MUSKEGON COUNTY SOUTH CAMPUS
7:00 P.M.

The Public Hearing was called to order by Robert Ribbens at 7:03 p.m.

Present: Martin Hulka; Louis McMurray; Don Laskowski; John Warner; Robert Ribbens.

Louis McMurray stated that he received a copy of a letter sent to Robert Ribbens from Tim Westman, Wastewater Director, regarding the Muskegon County Solid Waste Plan. The letter is regarding the ability to monofil for sludge. A copy is attached and made a part of this hearing. The language for this issue is stated in the plan as "Special consideration will be given to alternative type III disposal sites in the 5 year planning period." This issue will be considered a specific item and will be included in the finalized plan. The language for this item can be taken directly from the previous plan.

Martin Hulka questioned if this is included in the plan and a site was applied for, would the plan have to be amended.

Robert Ribbens stated it would have to go back to the Planning Committee to be approved as meeting the criteria of new sites (Type III only).

Martin Hulka questioned if something is not in the plan, for example a class II, they could come back at any given time and go through the procedures and amend the solid waste plan.

John Warner stated that is the proper method.

Robert Ribbens stated that his office is in receipt of a letter of resignation from the Chair of the Solid Waste Plan Update Committee, Tanya Cabala, effective September 9, 1999. The letter will be put on file.

The public hearing adjourned at 7:30 p.m.

kf

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of CASNOVIA hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

I hereby certify this is a true and complete copy of a resolution adopted by the Village Council of the Village of Casnovia, Kent and Muskegon Counties, Michigan, at a regular meeting held on 7-10-2000.

Barbara Bennett, Clerk

Casnovia Township Offices
245 South Canada Road
Casnovia, MI 49318

Muskegon County
Department of Public Works
990 Terrace Street
Muskegon, MI 49442

June 12, 2000

Dear Mr. Ribbens:

The Casnovia Township Board passed the Muskegon County Solid Waste Plan - 1998 Update, at our meeting held on June 6, 2000.

The motion was made by Carl VanLoon and seconded by John Muma. Motion passed with 5 Ayes and 0 Nayes.

Sincerely,

Carl Van Loon
Carl VanLoon
Casnovia Township Clerk

CV/rb

Phone: (616) 675-4064 FAX: (616) 675-5611

FAX COVER SHEET

MOORLAND TOWNSHIP
12416 E. APPLE AVENUE
RAVENNA, MI 49451

TO _____

COMPANY Muskegon County Solid Waste Facility

DATE 6/2/00

FAX NUMBER 724-6004

****

****

FROM Sharon Rolison, Clerk

FAX NUMBER 853-5013

NUMBER OF PAGES, INCLUDING COVER 2

IF ALL PAGES ARE NOT RECEIVED, CALL 853-2015

REMARKS:

This resolution was passed on 6/1/00 by the Moorland Township Board of Trustees at our regular meeting.

MINUTES OF REGULAR MEETING OF CASNOVIA VILLAGE COUNCIL
HELD AT THE CASNOVIA VILLAGE OFFICE
July 10, 2000

The regular meeting of the Casnovia Village Council was called to order by President Koomen at 7:30 P.M. Members present: Parcels Shaw, Gardner, Koomen, Harrison and Isenhart. Absent: Kahrs.

Motion by Gardner and supported by Harrison to accept minutes as read. Ayes 6. Nays 0. Motion carried.

Motion by Shaw and supported by Gardner to accept financial report as read. Ayes 6. Nays 0. Motion carried.

Motion by Gardner and supported by Isenhart that the bills be allowed and orders drawn on treasury for same. Roll call: Ayes, Parcels, Shaw, Gardner, Isenhart, Harrison and Koomen. Nays 0. Motion carried.

Much discussion followed on making an adjustment on the bill from Inland Services because of damage they did to the sewer gate.

Harrison reported on the resignation of our DPW workers.

Motion by Gardner and supported by Shaw to purchase two new tables for Village Hall. Roll call: Ayes, Koomen, Harrison, Parcels, Isenhart, Shaw, and Gardner. Nays 0. Motion carried.

Isenhart reported on the dismantled cars in the Village.

Motion by Isenhart and supported by Gardner to approve the 1998 update of the Muskegon County Solid Waste Plan. Ayes 6. Nays 0. Motion carried.

Motion by Isenhart and supported by Harrison to transfer Equipment Numbers January thru June 2000. Major Street $4678.27 and Local Street $519.80 to Equipment Rentals checking. Ayes 6. Nays 0. Motion carried.

Being no further business to come before the Council on a motion by Gardner and supported by Isenhart we adjourned at 8:50 P.M.

The next regular meeting of the Casnovia Village Council will be Monday, August 14 at 7:30 P.M. with a service session at 7:00 P.M. All meetings are open to the public and are held at the Casnovia Village Office at 141 N. Main Street.

Barbara Bennitt, Clerk

APPENDIX D

COUNTY AND LOCAL MUNICIPAL RESOLUTIONS

Solid Waste Plan Update

Updated 21 August, 2000

Local Municipality Approvals

Municipality	Approval
Blue Lake	no response
Casnovia	X
Casnovia (Village)	X
Cedar Creek	X
Dalton	X
Egelston	no
Fruitland	X
Fruitport	X
Fruitport (Village)	no response
Holton	X
Laketon	X
Montague	no response
Montague (City)	X
Moorland	X
Muskegon	no
Muskegon (City)	X
Muskegon Hts	X
North Muskegon	X
Norton Shores	X
Ravenna	X
Ravenna (Village)	X
Roosevelt Park	X
Sullivan	X
White River	no response
Whitehall	X
Whitehall (City)	X

COUNTY OF MUSKEGON
CLERK'S OFFICE

SUSAN R. DORIOT
CLERK
VITAL STATISTICS
2nd FLOOR
(231) 724-6221
FAX (231) 724-6262

990 TERRACE STREET, MUSKEGON, MICHIGAN 49442

MARIANNE HATHAWAY
CHIEF DEPUTY CLERK
CIRCUIT COURT RECORDS
6th FLOOR
(231) 724-6251
FAX (231) 724-6695

2000-163 **ADOPT THE RESOLUTION APPROVING THE MUSKEGON COUNTY SOLID WASTE PLAN - 1998 UPDATE**

The Board of Public Works recommends, moved by McMurray, supported by Start, the adoption of the Resolution approving the Muskegon County Solid Waste Plan - 1998 Update.

Motion Carried

I, Susan R. Doriot, Muskegon County Clerk, Muskegon, Michigan, do hereby certify that the above is a true and correct copy of a resolution adopted by the Board of Commissioners on March 28, 2000. In testimony whereof, I have hereunto set my hand and affixed the seal.

Susan R. Doriot,
County Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of Muskegon Heights hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

I, hereby, certify that the foregoing constitutes a true and complete copy of a Resolution adopted by the City Council of the City of Muskegon Heights, County of Muskegon, Michigan, at a regular meeting held on May 8, 2000, and that public notice of said meeting was given pursuant to and in full compliance with Act. No. 267 of the Public Acts of Michigan of 1976.

Betty Ivory, City Clerk

RESOLUTION -8-2000

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of CEDAR CREEK TOWNSHIP hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of CASNOVIA TOWNSHIP hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of City of Montague hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

Adopted May 15, 2000 at a Regular City Council Meeting

Melinda O'Connell

Melinda O'Connell, City Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as amended (NREPA); AND

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000 and recommends adoption by all local units of government in Muskegon County;

NOW, THEREFORE, BE IT RESOLVED that the City of Norton Shores hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

At a regular meeting of the City Council of the City of Norton Shores, held at the Norton Shores Branch Library, 705 Seminole Road, on the 16th day of May, 2000, the foregoing resolution was moved for adoption by Council Member Beecham. The motion was supported by Council Member Broge.

Ayes: Mayor Crandall, Council Members Broge, Beecham, Kinney, McCartney, Waldo and Wiersma

Nays: Scolnik

Resolution declared adopted.

Lynne A. Fuller

Lynne A. Fuller, City Clerk

RESOLUTION

2000-54(b)

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of City of Muskegon hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

Gail A. Kundinger

Gail A. Kundinger
City Clerk

CERTIFICATION

This resolution was adopted at a regular meeting of the City Commission, held on May 23, 2000. The meeting was properly held and noticed pursuant to the Open Meetings Act of the State of Michigan, Act 267 of the Public Acts of 1976.

CITY OF MUSKEGON

By Gail A. Kundinger

Gail A. Kundinger, City Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of Moorland hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

Dalton Township

Richard Houtteman, *Supervisor*

Mary Ann Wallace, *Clerk*

Rosemary Rinella, *Treasurer*

Michael Hiner, *Trustee*

Diane Misze, *Trustee*

Richard Vallier, *Trustee*

Mary Nyman, *Trustee*

1616 East Riley Thompson Road • Muskegon, Michigan 49445 • Office 231 766-3043 • Fax 231 766-2636

RESOLUTION

At a regular meeting of the Board of the Township of Dalton, County of Muskegon, State of Michigan, held on the 5th. day of June, 2000, in the Township Hall in the said Township at 7:30 p.m., Eastern Daylight Time.

PRESENT: Members Richard Houtteman, Mary Ann Wallace, Rosemary Rinella, Michael Hiner, Mary Nyman, Richard Vallier and Diane Misze.

ABSENT: Members None

The following preamble and resolution offered by Member Michael Hiner and seconded by Member Diane Misze.

WHEREAS: the Muskegon County Board of Commissioners established the Muskegon county Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS: the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS: the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS: the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000: and

WHEREAS: the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County:

NOW, THEREFORE BE IT RESOLVED: That the Municipality of Dalton Township hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

RESOLUTION DECLARED ADOPTED

7 Ayes 0 Nays

TOWNSHIP OF DALTON

Mary Ann Wallace

Mary Ann Wallace -- Clerk

CERTIFICATION OF ADOPTION

I, Mary Ann Wallace, Dalton Township Clerk, being fully sworn hereby attest that the foregoing resolution was fully adopted at a regular meeting of the Dalton Township Board on June 5, 2000.

Mary Ann Wallace

Mary Ann Wallace -- Clerk

MUSKEGON COUNTY
DALTON
TOWNSHIP
MICHIGAN

RESOLUTION
Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of Laketon Township hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Edward J. Weessies
Laketon Township Clerk

I hereby certify that the foregoing is a true and complete copy of a Resolution adopted by the Township Board of the Township of Laketon, County of Muskegon, Michigan, at a regular meeting held on June 12, 2000, and that said meeting was conducted and public notice of said meeting was given pursuant to act No. 267, Public Acts of Michigan, 1976, including in the case of a special or rescheduled meeting, notice of publication or posting at least eighteen (18) hours prior to the time set for the meeting.

Edward J. Weessies
Laketon Township Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE BE IT RESOLVED that the City of North Muskegon hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Adopted this 5th day of June 2000.

Ann Marie Cummings

Ann Marie Cummings, CMC
City Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of Ravenna - Village hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

Sandra Rollenhagen

Sandra Rollenhagen
Village Clerk

RESOLUTION 00-01

MUSKEGON COUNTY SOLID WASTE PLAN - 1998 UPDATE

WHEREAS, the Muskegon County board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS; the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of **RAVENNA TOWNSHIP** hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Jessie Russell
Clerk

Nicholas Ferro
Supervisor

FRUITLAND TOWNSHIP
RESOLUTION 2000-8
MUSKEGON COUNTY SOLID WASTE PLAN-1998 UPDATE

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, The Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County.

NOW, THERFORE, LET IT BE RESOLVED:

That the Fruitland Township Board hereby approves the Muskegon County Solid Waste Plan – 1998 Update.

Motion by Marcinkowski, seconded by Jensen, CARRIED, to adopt the foregoing resolution at a regular meeting of the Fruitland Township Board, held on June 19, 2000 at 7:30 p.m. Roll Call Vote: 4 ayes, 0 nays, 1 absent

Marcia Jeske, Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of Fruitport Township hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal I hereby certify that the foregoing constitutes a true and complete copy of a resolution adopted by the township Board of the Township of Fruitport, County of Muskegon, Michigan, at a regular meeting held June 26, 2000, and that public notice of said meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1976.

Carol Hulka

Carol Hulka, Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of CASNOVIA hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Official Clerk Certification Seal

I hereby certify this is a true and complete copy of a resolution adopted by the Village Council of the Village of Casnovia, Kent and Muskegon Counties, Michigan, at a regular meeting held on 7-10-2000.

Barbara Bennett, Clerk

RESOLUTION

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of Holton Township hereby approves said Muskegon County Solid Waste Plan - 1998 Update

Official Clerk Certification Seal

Michelle M McCabe
Holton Township Clerk
Resolution passed at
Regular Board meeting 7/11/00

RESOLUTION

Muskegon County Solid Waste Plan - Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation; and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE IT IS RESOLVED:

That the Municipality of Whitehall Township hereby approves said Muskegon County Solid Waste Plan - Update.

Official Clerk Certification Seal

Evelyn M. Olson, Clerk

CITY OF WHITEHALL
RESOLUTION 00-44

Muskegon County Solid Waste Plan - 1998 Update

WHEREAS, the Muskegon County Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, PA 451, as Amended (NREPA); and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999; and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public; and

WHEREAS, the Planning Committee approved the Plan February 22, 2000 after due deliberation, and

WHEREAS, the Muskegon County Board of Public Works has approved the final Plan on March 9, 2000; and

WHEREAS, the Muskegon County Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW THEREFORE LET IT BE RESOLVED

That the City of Whitehall hereby approves said Muskegon County Solid Waste Plan - 1998 Update.

Moved by Ingalls, seconded by Clauss, and thereafter adopted by the City Council of the City of Whitehall, at a regular meeting held Tuesday, July 25, 2000 at 7:30 p.m. (_6_ yea, ___0_ nay, ___1____ absent).

Norman Ullman, Mayor

Heidi Isakson, City Clerk

Minutes of the Regular Meeting of the Sullivan Township Board held at the Sullivan Township Hall, July 11, 2000.

The meeting was called to order by Supervisor Mabrito at 7:30p.m.

PRESENT: Supervisor, Tony Mabrito; Clerk, John Potts, Jr.; Treasurer, Patty J. Dodge; Trustee, Eloise Jarka; Trustee, Bruce McCabe; four residents; and three guests of Sullivan Township.

MINUTES: It was moved by Eloise Jarka, supported by Bruce McCabe, to approve the minutes of the regular meeting of June 6, 2000, as read. Motion carried.

FINANCE: The Treasurer's report on Township receipts of $34,819.40, for the period of June 1, 2000, through June 30, 2000, was presented by Treasurer, Pat Dodge.

It was moved by Pat Dodge, supported by John Potts, to pay bills of $33,668.21 as presented. Motion carried.

CORRESPONDENCE: Jim Patrick, 4-H Fair Board Representative - A report on the Fair Board meeting of June 20, 2000.

Robert J. Ribbens, Muskegon County Environmental Planner – A memo regarding adoption of the Muskegon County Solid Waste Plan Update.

Lyn Wilson Berry, V. P., Gourmet Ready Foods – A letter of inquiry regarding available land and tax abatements for a packaged food production facility.

OLD BUSINESS: Solid Waste Management Plan – An executive summary of the Muskegon County Solid Waste Plan Update was again reviewed by the Board. It was moved by Eloise Jarka, supported by Bruce McCabe, to approve the solid waste plan as submitted. Motion carried.

NEW BUSINESS: Musketawa Trail Management Council – Trailways Committee Representative, Mr. Joe Mikkelsen presented information regarding the forming of a five unit local government appointed agency to manage the west half of the Musketawa Trail.

Gourmet Ready Foods - Company Vice-President, Lyn Wilson Berry introduced CEO John Thomas, who made a brief presentation describing the company's operation and their desire to locate a production facility in the area. The Township Planning Commission joined the meeting to hear the presentation and participated in the ensuing discussion.

DISCUSSION: Township Hall rental policy; and right to farm legislation.

ADJOURNMENT: There being no further business to come before the Board, it was moved by Eloise Jarka, supported by Pat Dodge to adjourn. Motion carried.

The meeting adjourned at 10:05 p.m.

John Potts, Jr.
Sullivan Township Clerk

RESOLUTION

MUSKEGON COUNTY SOLID WASTE PLAN - 1998 UPDATE

WHEREAS, the Muskegon Country Board of Commissioners established the Muskegon County Solid Waste Planning Committee pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994, PA 451, as Amended (NREPA), and

WHEREAS, the Planning Committee has considered the required elements of the Plan during 1999, and

WHEREAS, the Planning Committee is comprised of community representatives including local municipalities, environmental groups, industry, solid waste companies and the general public, and

WHEREAS, the Planning Committee approved the Plan February 22, 2000, after due deliberation, and

WHEREAS the Muskegon Country Board of Public Works has approved the final Plan on March 9, 2000, and

WHEREAS, the Muskegon Country Board of Commissioners has approved of and adopted the final Plan on March 28, 2000, and recommends adoption by all local units of government in Muskegon County;

NOW, THEREFORE, BE IT RESOLVED, that the municipality of the City of Roosevelt Park hereby approves said Muskegon County Solid Waste Plan – 1998 Update.

At a regular meeting of the Roosevelt Park City Council held on Monday,

August 7, 2000, the foregoing resolution was moved for adoption by Council Member

Mertz. The motion was supported by Council Member Ruiter and carried unanimously.

Resolution declared adopted

Dorothy J. Harjer

Dorothy J. Harjer, CMC
City Clerk

CITY OF ROOSEVELT PARK MICHIGAN
SEAL

CHARTER
TOWNSHIP OF MUSKEGON

1990 APPLE AVENUE
MUSKEGON, MICHIGAN 49442-4247

Phone: (231) 777-2555
Fax: (231) 777-4912

July 26, 2000

Mr. Robert J. Ribbens
Environmental Planner
990 Terrace Street
Muskegon, Michigan 49442

SUBJECT: <u>County Solid Waste Plan Update</u>

Dear Mr. Ribbens:

The Muskegon Charter Township Board at our July 17, 2000, Board Meeting, voted unanimously to <u>NOT</u> approve the County Solid Waste Plan Update. The reason for this action is the same as stated in my previous letters to you in regard to exporting of waste. I will not have approved minutes of our July 17, 2000, meeting until August 7, 2000.

Sincerely,

P. Don Aley
Supervisor

dc-ribbenscountyupdate.wpd

Fire Department Continued...

g. Gerald Luttrull asked what is the status of quotes for new radios. Richard Howell to inquire of Chief.

h. The township Pin Officer Deputy Todd Dunham said most of his time recently has been involved with ORV violations.

8. Richard Howell moved, Brian Hill seconded to approve the presented Solid Waste Plan-1998. Disapproved unanimously. Does not address how much garbage comes or goes elsewhere.

9. Beals Park Caketaker:

a. Walt Bowen moved, William Rahn seconded to approve Mr. Chris Monroe as caretaker of Beals Wolf Lake Park. Not approved on roll call vote. Brian Hill, Richard Howell, Ray Davis and Frank Fazakerley voted no.

b. Gerald Luttrull moved, William Rahn seconded to approve Mr. and Mrs. Hanson as caretaker of Beals Wolf Lake Park. Approved on roll call vote.

c. Ray Davis stated the recent Building Inspector correction items are far less than the 54 items requiring correction when the prior caretaker started.

d. Richard Howell suggested we consider some kind of incentive for the new caretaker to speed up occupancy of the house i.e.. township provide plaster compound, paint, sink unit, guarantee furnace and pump work and $3,000 up front for labor to correct items on building inspector list. Township to also have maintenance remove all carpet and empty accessory building for example.

e. Brian Hill moved, Frank Fazakerley seconded to have Richard Howell meet with the Hanson's to negotiate something similar to the above and present at the next meeting. Carried.

10. Richard Howell moved, Frank Fazakerley seconded to get a quote from Baxter for upgrading the Hazekamp Lift Station. Carried.

11. Richard Howell acknowledged receipt of two quotes to improve the air quality at the fire station. Not much confined exhaust from fire trucks. Richard Howell and Ray Davis are reviewing.

12. Ray Davis to get quote to redesign and construct a new roof at the complex front entrance. No objections.

13. Ray Davis informed the MCRC has decided to make Wolf Lake and Hall Road a four way stop. Pins Deputy had some concern as to its practicality.

14. Walt Bowen moved, Frank Fazakerley seconded to pay the bills. Approved on roll call vote.