



STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

February 27, 2006

Mr. Bernie Lang, Chairperson
Menominee County Board of Commissioners
839 10th Avenue
Menominee, Michigan 49858-3000

Dear Mr. Lang:

The Department of Environmental Quality (DEQ) received the locally-approved amendment to the Menominee County Solid Waste Management Plan (Plan Amendment) on January 17, 2006.

This Plan Amendment modifies siting criteria to allow transfer stations within the city of Menominee to be located on lands zoned PL Public Lands as well as those zoned M-1 Industrial.

This letter hereby approves the Plan Amendment. The DEQ has determined that this Plan Amendment complies with the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 administrative rules. Additionally, the DEQ would like to thank Menominee County for its efforts in addressing solid waste management issues.

If you have any questions, please contact Ms. Rhonda Oyer Zimmerman, Chief, Solid Waste Management Unit, Storage Tank and Solid Waste Section, Waste and Hazardous Materials Division, at 517-373-4750, or you may contact me.

Sincerely,

Steven E. Chester
Director
517-373-7917

cc: Senator Michael Prusi
Representative Tom Casperson
Mr. David Gillis, CUPPAD Regional Commission
Mr. Peter Van Steen, CUPPAD Regional Commission
Mr. Mark Erickson, Menominee County
Mr. Brian Neumeier, Menominee County Administrator
Mr. Jim Sygo, Deputy Director, DEQ
Ms. Carol Linteau, Legislative Liaison, DEQ
Mr. George W. Bruchmann, DEQ
Mr. Steven R. Sliver, DEQ
Mr. Rob Schmeling, DEQ
Ms. Rhonda Oyer Zimmerman, DEQ
Ms. Noelle Hartner, DEQ
Menominee County File



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

February 23, 2001

Ms. Patricia Anderson, Chairperson
Menominee County Board of Commissioners
Menominee County Courthouse
839 10th Avenue
Menominee, Michigan 49858-3000

Dear Ms. Anderson:

The Department of Environmental Quality (DEQ) received the locally approved update to the Menominee County Solid Waste Management Plan (Plan) on October 16, 2000. Except for the items indicated below, the Plan is approvable. As outlined in the November 1, 2000 letter to Mr. Peter Van Steen, Community Planner, Central Upper Peninsula Planning and Development Regional Commission (CUPPAD), from Mr. Stan Idziak, DEQ, Waste Management Division, and as confirmed by letter received by the DEQ on December 5, 2000, from you to Mr. Idziak, the DEQ makes certain modifications to the Plan as discussed below.

On [page III-41](#), Siting Criteria reads:

The following criteria will be used to evaluate the information provided by the developer and to determine if the proposed facility expansion of new Type II landfill, Type III landfill, transfer station or processing facility is, or is not, consistent with the approved Update of the Menominee County Solid Waste Management Plan. If all of the criteria are answered 'yes', ...

The last sentence of this paragraph is unfinished. It appears that the intention of the Plan is that all of the criteria on pages III-42 through III-45 must be answered in the affirmative for the facility to be declared consistent with the Plan. However, the unfinished sentence makes the Menominee County's (County's) intentions unclear and gives the County arbitrary decision-making power over the siting of disposal areas, which conflicts with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

Therefore, to alleviate this problem, the following statement replaces the unfinished sentence at the end of the paragraph under the heading Siting Criteria on page III-41: "If all of the criteria listed under the numbers 1 through 12 and one of the two criteria listed under number 11 are answered 'yes,' then the new facility or the facility expansion is considered to be consistent with the Plan."

On [page III-42, number 2. a](#) reads: "The developer has provided documentation demonstrating the waste stream to the facility is authorized by the plan."

It is not clear whether just the submittal of the documentation is all that is necessary to fulfill this criterion. In order to clarify this situation, the statement is modified to read: "Has the developer submitted a written and signed statement indicating the waste stream to the facility is authorized by the Plan?"

Also on [page III-42, number 2. b](#) reads: "The developer has described the needs of the service area and how the proposed development will address them, including proposed recycling services."

It is not clear whether just the submittal of the description is all that is necessary to fulfill this criterion. In order to clarify this situation, the statement is modified to read:

Has the developer provided a written and signed statement describing the needs of the service area and how the proposed development will address them, including proposed recycling services that may be offered?

[On page III-52, number 3 reads:](#)

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: Construction debris/demolition material reduction or processing programs.

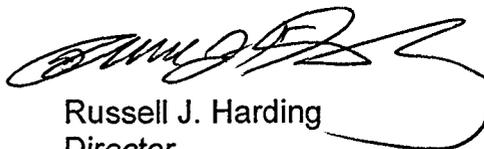
This statement attempts to control material reduction or processing programs with local regulations of unknown scope. Solid waste processing facilities are disposal areas regulated under the NREPA, and the enforcement of local ordinances meant to regulate them could conflict with the NREPA. Therefore, the phrase "or processing programs" is deleted from the statement.

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

The Plan may also contain other provisions that are neither required nor expressly authorized for inclusion in a solid waste management plan. The DEQ approval of the Plan does not extend to any such provisions. Under Part 115 of the NREPA, 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 Menominee County. If you have any questions, please contact Ms. Joan Peck, Chief, Solid Waste Program Section, Waste Management Division, at 517-335-3383.

Sincerely,



Russell J. Harding
Director
517-373-7917

cc: Senator Donald Koivisto
Representative Douglas Bovin
Mr. Peter Van Steen, Community Planner, CUPPAD
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Robert Schmeling, DEQ - Marquette
Mr. Stan Idziak, DEQ
Menominee County File

**MENOMINEE COUNTY SOLID WASTE
MANAGEMENT PLAN**

June, 2000

Prepared by the Menominee County Solid Waste Planning Committee
with assistance from the CUPPAD Regional Commission

MENOMINEE
COUNTY SOLID WASTE MANAGEMENT PLANS

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



John Engler, Governor
Russell J. Harding, Director

Michigan Department of Environmental Quality
Waste Management Division

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

EQP 5210 (8-97)

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1997 PLAN UPDATE COVER PAGE

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

DATE SUBMITTED TO THE DEQ:

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

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

<u>Municipality</u> <u>Planning County</u>	<u>Original Planning County</u>	<u>New</u>
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DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

CONTACT PERSON: Peter Van Steen

ADDRESS: 2415 14th Avenue South, Escanaba, MI 49829

PHONE: 906.786.9234

FAX: 906.786.4442

(If Applicable)

E-MAIL: cuppad@up.net

(If Applicable)

CENTRAL REPOSITORY LOCATION(S):

Menominee County Courthouse; Menominee County Library, Stephenson; Spies Library, Menominee

EXECUTIVE SUMMARY

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

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

Twp. or Municipality	Population	% of Land use		Ag*	% of Economic Base		
		Rural	Urban		Ind	Com	Other
Cedarville Twp.	190	99.3	0.7	6	42	46	6
Daggett Twp.	479	99.0	1.0	12	39	39	10
Faithorn Twp.	217	99.8	0.2	15	51	36	0
Gourley Twp.	368	99.6	0.4	8	53	28	11
Harris Twp.	1594	99.4	0.6	8	40	40	12
Holmes Twp.	398	99.4	0.6	6	54	27	13
Ingallston Twp.	1055	97.7	2.3	10	38	39	13
Lake Twp.	497	98.9	1.1	16	37	39	8
Mellen Twp.	1183	96.3	3.7	6	47	39	8
City of Menominee	9398	27.6	72.4	0	38	46	15
Menominee Twp.	3956	94.1	5.9	2	48	40	10
Meyer Twp.	1038	99.3	0.7	3	55	30	12
Nadeau Twp.	973	99.0	1.0	6	40	39	15
Spalding Twp.	1268	99.4	0.6	9	37	40	14
City of Stephenson	873	53.3	46.7	2	26	54	18
Stephenson Twp.	690	98.7	1.3	18	33	37	12
Village of Daggett	291	77.2	22.8	12	30	44	14
Village of Carney	184	73.3	26.7	0	36	42	21
Village of Powers	268	80.4	19.6	0	45	43	12

*Ag is a combination of Ag, For and Fish

Source: U.S. Census, Census of population and Housing, 1990, STF 3A, P077, P001

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

EXECUTIVE SUMMARY

CONCLUSIONS

The Menominee County Solid Waste Planning Committee reviewed and discussed the various scenarios and options of waste disposal. Methods discussed included exporting all county generated wastes, utilizing waste-to-energy facilities, and disposing of waste at a landfill located in the county.

Disposal alternatives were evaluated in relation to their consistency with solid waste management goals and objectives, economic feasibility and the likelihood of receiving public approval.

Investments have been made by the private sector in constructing and maintaining current landfill facilities and solid waste transfer stations. Currently, Menominee County has the option of using landfills within the county or transferring it out of the county.

Continued use of landfills within and outside of the County is the preferred disposal option. Recycling and composting efforts are encouraged in the County to maximize the life of the existing landfills. Diversion of household hazardous materials from the waste stream will assist in the prevention of possible contamination to the groundwater.

SELECTED ALTERNATIVES

Disposal of residential, household and industrial wastes would be provided at either the Waste Management's Michigan Environs Landfill or out-of-county facilities. The present Waste Management's Michigan Environs Landfill site has an expected 18-19 year life capacity.

Disposal of waste generated by Great Lakes Pulp Company is at its own facility.

Collection of solid waste is handled by both private haulers and the City of Menominee. Three transfer stations currently operate in the county: Menominee-Ingallston transfer station, owned and operated jointly by the Township Boards of Menominee and Ingallston; and Mid-County and North County, owned and operated by Great American Disposal (GAD). Waste from the Menominee-Ingallston transfer station is hauled to the Waste Management's Michigan Environs Landfill and waste from the GAD transfer stations are hauled to the Wood Island Landfill, near Munising. Individuals can haul wastes to the Waste Management's Michigan Environs landfill.

Solid waste intrastate importation is authorized from Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Ontonagon and Schoolcraft Counties for primary disposal.

Solid waste intrastate exportation is authorized to Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Ontonagon, and Schoolcraft Counties for primary disposal.

The present recycling/composting resource recovery programs will continue. Efforts should be made to increase public participation in the recycling and composting programs offered.

If funding becomes available, Menominee County should consider re-establishing the household hazardous waste collection program. Residents of Menominee County are encouraged to dispose of pesticides and herbicides through the Upper Peninsula Pesticide Waste Collection Program located at the Delta County Landfill.

Facility information contained in the Plan was solicited and received from the various operators during the summer of 1998. The date information for Waste Management's Michigan Environs landfill is current as of May 19, 1998.

INTRODUCTION

GOALS AND OBJECTIVES

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

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

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

Goal 1: TO PROVIDE NEEDED SOLID WASTE MANAGEMENT SERVICES TO MENOMINEE COUNTY.

Objective 1a: Ongoing operation, maintenance, replacement and future construction costs of solid waste facilities will be paid for by users.

Objective 1b: Solid Waste disposal operations shall keep accurate, up-to-date records of volume of waste received from all sources and provide data to the county on an annual basis.

Goal 2: TO INSURE DISPOSAL OF SOLID WASTE IN A MANNER WHICH PROTECTS PUBLIC HEALTH AND MINIMIZES ADVERSE ENVIRONMENTAL EFFECTS.

Objective 2a: Strict measures should be implemented to assure that hazardous wastes or toxic materials are not disposed of in disposal areas not specifically authorized to receive such wastes.

Objective 2b: The public should be provided clear and concise information regarding methods of source reductions, conservation, and proper disposal of solid wastes.

Objective 2c: Precautions should be taken at solid waste transfer, collection, and landfill sites to assure the safety of the work force, neighbors, citizens and users.

Objective 2d: Improve enforcement against illegal dumping of waste in unauthorized areas by enactment of local ordinances which provide for fines and other penalties and encourage witnesses to report illegal dumping by offering cash rewards.

Objective 2e: County residents should dispose of unused or unwanted pesticides and herbicides at the Upper Peninsula Pesticide Waste Collection Program at the Delta County Landfill.

Objective 2f: Funding should be found for an annual household hazardous waste collection program.

Goal 3: TO MAXIMIZE THE RECOVERY OF ENERGY AND MATERIALS FROM SOLID WASTES.

Objective 3a: The private sector and local units of government should seek to expand existing programs to recover additional recyclables from the solid waste stream, if cost effective.

Objective 3b: The county should consider the energy potential in the waste stream to the extent:

- a. Environmental standards can be maintained; and
- b. the cost of producing the energy is not prohibitive.

Objective 3c: Support existing composting and recycling operations as a means of saving landfill air space by encouraging the composting of yard waste in the county and recovery of 20% of recyclable materials.

Objective 3d: Manufacturers in the County should use reclaimed materials from the County's waste stream in their production process, where feasible.

Goal 4: INFORM CITIZENS ABOUT SOLID WASTE MANAGEMENT ISSUES AND CONCERNS.

Objective 4a: MSU Extension, environmental groups, waste haulers and landfills should provide information and educational materials concerning recycling, household hazardous waste collection, and proper waste disposal methods through the use of radio, flyers and newspaper announcements.

Objective 4b: Landfill and transfer station owners should provide opportunities to tour existing disposal, recycling and composting facilities and provide information about those facilities which can be used in educational curriculum for grades K-12.

DATA BASE

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

The majority of the waste generated within Menominee County is disposed of at the Waste Management's Michigan Environs Landfill. Waste generated from both water and wastewater treatment operations of the Cities of Menominee and Stephenson is disposed by land application.

Approximately 2,000 tons of solid waste is hauled to landfills outside of Menominee County annually. The Wood Island landfill in Alger County received approximately 8,843 tons of solid waste from Menominee County during 1997. The following chart details the amount of waste generation from the above sources.

WASTE GENERATION IN MENOMINEE COUNTY (As reported from various sources)

	CURRENT ANNUAL	FIVE YEAR	TEN YEAR
Residential	12,674 tons	13,307 tons	13,972 tons
Commercial/Industrial	40,443 tons	42,465 tons	44,588 tons
Municipal Sludge	415 tons	436 tons	458 tons
Industrial Sludge/Waste	140,000 yds,	142,800 yds.	145,656 yds.

TOTAL QUANTITY OF SOLID WASTE GENERATED:

54,100 Tons in year (identify unit of time)

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:

53,532 Tons or Cubic Yards in year (identify unit of time)

DATA BASE

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

Waste Management's Michigan Environs Landfill in Menominee is a Type II landfill and processing facility. The licensed landfill has a total area of 240 acres sited for use within an estimated lifetime of 19 years. The landfill accepts all waste streams for a Type II landfill.

Wood Island Landfill in Wetmore, Michigan is a Type II landfill. The licensed landfill has a total area of 325 acres, with 67 acres sited for use. The landfill has an estimated lifetime of 20 years. Wastes from the North County and Mid-County Transfer Stations are disposed at this landfill.

Great Lakes Pulp Company is a Type III low-hazard industrial waste landfill. The licensed landfill has a total area of 200 acres, with 14 acres sited for use. The landfill has an estimated lifetime of 4.8 years. Most of the waste generated at Great Lakes Pulp Company is disposed of at this landfill. Food waste generated in lunchrooms is disposed of at the Waste Management's Michigan Environs landfill.

Menominee/Ingallston Transfer Station is a Type B transfer station. The usage charge is 5 cents per pound for solid waste. There is no charge for recyclable materials. The waste from this transfer station is hauled to the Waste Management's Michigan Environs Landfill by Waste Management. The host agreement between Menominee Township and Waste Management's Michigan Environs Landfill specifies that no tipping fees are charged for the disposal of wastes from the station for the first 117 tons per year.

North County Transfer Station is a Type A transfer station owned and operated by Great American Disposal. The waste from this transfer station is hauled to the Wood Island Landfill. This station provides service to northern and central Menominee County. Recyclable goods are also collected at the site.

Mid-County Transfer Station is a Type A transfer station owned and operated by Great American Disposal. The waste from this transfer station is hauled to the Wood Island Landfill. The facility serves mid-Menominee County; the Townships of Lake, Stephenson, Daggett, Cedarville, Daggett Village and the City of Stephenson.

HMSH, Inc., Type III Landfill, previously referred to as Menominee Paper Solid Waste Disposal Facility, is a site available for construction as a landfill. The design is completed and monitoring wells have been installed.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Waste Management's Michigan Environs

County: Menominee Location: Town: 32N Range: 27W Section(s): 3,4,9 & 10

Map identifying location included in Attachment Section: Yes No

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

Public Private Owner: Waste Management

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

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

This landfill is permitted to accept all waste streams as defined by DEQ for a Type II landfill.

Site Size:

Total area of facility property:	<u>240</u>	acres
Total area sited for use:	<u>240</u>	acres
Total area permitted:	<u>80</u>	acres
Operating:	<u>14.68</u>	acres
Not excavated:	<u>65.32</u>	acres
Current capacity:	<u>4.4 mil</u>	tons or yds ³
Estimated lifetime:	<u>19</u>	years
Estimated days open per year:	<u>281</u>	days
Estimated yearly disposal volume:	<u>275,000</u>	tons or yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Wood Island Waste Management, Inc.

County: Alger Location: Town: 46N Range: 18W Section(s): SE1/4(18) E1/2(19)

Map identifying location included in Attachment Section: Yes No

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

Public Private Owner: Wood Island Waste Management, Inc.

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

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

Site Size:

Total area of facility property:	<u>325</u>	acres
Total area sited for use:	<u>67</u>	acres
Total area permitted:	<u>28</u>	acres
Operating:	<u>11.4</u>	acres
Not excavated:	<u>176</u>	acres
Current capacity:	<u>1,500,000</u>	tons or yds ³
Estimated lifetime:	<u>20</u>	years
Estimated days open per year:	<u>316</u>	days
Estimated yearly disposal volume:	<u>78,000</u>	tons or yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Mid-County Transfer Station

County: Menominee Location: Town: 36N Range: 27W Section(s): 35

Map identifying location included in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Wood Island Waste Management, Inc.

Public Private Owner: Great American Environmental Services, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
<input checked="" type="checkbox"/>	open	<input checked="" type="checkbox"/>	residential
	closed	<input checked="" type="checkbox"/>	commercial
<input checked="" type="checkbox"/>	licensed		industrial
	unlicensed		construction & demolition
	construction permit		contaminated soils
	open, but closure		special wastes *
	pending		other: <u> </u>

* 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 yds ³
Estimated lifetime:	___	years
Estimated days open per year:	___	days
Estimated yearly disposal volume:	___	tons or yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: North County Transfer Station

County: Menominee Location: Town: 38N Range: 26W Section(s): 15

Map identifying location included in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Wood Island Waste Management, Inc.

Public Private Owner: Great American Environmental Services, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		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 yds ³
Estimated lifetime:	___	years
Estimated days open per year:	___	days
Estimated yearly disposal volume:	___	tons or yds ³
(if applicable)		
Annual energy production:		
Landfill gas recovery projects:	___	megawatts
Waste-to-energy incinerators:	___	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station

Facility Name: Menominee-Ingallston Transfer Station

County: Menominee Location: Town: 32N Range: 26W Section(s): 6

Map identifying location included in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Waste Management's Michigan Environs Landfill

Public Private Owner: Menominee Township & Ingallston Township

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

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

Site Size:

Total area of facility property:	<u>40</u>	acres
Total area sited for use:	<u>2</u>	acres
Total area permitted:	<u>N/A</u>	acres
Operating:	<u> </u>	acres
Not excavated:	<u> </u>	acres
Current capacity:	<u>N/A</u>	tons or yds ³
Estimated lifetime:	<u> </u>	years
Estimated days open per year:	<u> </u>	days
Estimated yearly disposal volume:	<u> </u>	tons or yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type III Low Hazard Industrial Waste Landfill

Facility Name: Great Lakes Pulp Type III Landfill

County: Menominee Location: Town: 33N Range: 27W Section(s): 29 & 30

Map identifying location included in Attachment Section: Yes No

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

Public Private Owner: Great Lakes Pulp Company

Operating Status (check)	Waste Types Received (check all that apply)
X open	residential
closed	commercial
X licensed	X industrial
unlicensed	construction & 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:	<u>200</u>	acres
Total area sited for use:	<u>14.0</u>	acres
Total area permitted:	<u>6.1</u>	acres
Operating:	<u>6.1</u>	acres
Not excavated:	<u>7.9</u>	acres
Current capacity:	<u>650,000</u>	tons or yds ³
Estimated lifetime:	<u>4.8</u>	years
Estimated days open per year:	<u>350</u>	days
Estimated yearly disposal volume:	<u>140,000</u>	tons or yds ³

(if applicable)

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

FACILITY DESCRIPTIONS

Facility Type: Type III Industrial Waste Landfill Site

Facility Name: HMSH, Inc. Type III Landfill (previously called Menominee Paper SW Disposal Facility)

County: Menominee Location: Town: 32N Range: 27W Section(s): 16

Map identifying location included in Attachment Section: Yes No

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

Public Private Owner: HMSH, Inc.

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

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

Site Size:

Total area of facility property:	<u>80</u>	acres
Total area sited for use:	<u>20</u>	acres
Total area permitted:	<u>16</u>	acres
Operating:	<u>0</u>	acres
Not excavated:	<u>16</u>	acres
Current capacity:	<u>722,000</u>	tons or <u>yds³</u>
Estimated lifetime:	<u> </u>	years
Estimated days open per year:	<u> </u>	days
Estimated yearly disposal volume:	<u> </u>	tons or <u>yds³</u>

(if applicable)

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

DATA BASE

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE

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

SERVICE PROVIDER	PUBLIC /PRIVATE	SERVICE AREA	PAYMENT	DISPOSAL FACILITY
Boivin Disposal	Private	City of Menominee	Customer	Waste Management's Michigan Environs Landfill
City of Menominee	Public	City of Menominee	Millage on property tax	Waste Management's Michigan Environs Landfill
G-Man Disposal	Private	Ingallston and Menominee Townships	Customer	Waste Management's Michigan Environs Landfill
Great American Disposal	Private	Menominee County	Customer	Wood Island Landfill
Great Lakes Pulp Company	Private	Great Lakes Pulp Company	Great Lakes Pulp Co.	Great Lakes Pulp Company Landfill
Waste Management, Inc.	Private	City of Menominee	Customer	Waste Management's Michigan Environs Landfill

Boivin Disposal provides residential and commercial collection services for residents in the City of Menominee. The collected waste is hauled to the Waste Management's Michigan Environs Landfill. Service is charged to individual customers based on frequency of collection and type of service provided.

City of Menominee provides solid waste collection services for the residents of the City of Menominee. Three mills on the city property tax fund this service. Both commercial and residential customers are serviced by this collection service.

G-Man Disposal collects residential wastes within Ingallston and Menominee Townships. The waste is disposed of at the Waste Management's Michigan Environs Landfill. The service fee includes both pick-up of garbage and recyclable material. Recyclable materials are brought to the Waste Management's Michigan Environs Landfill.

Great American Disposal provides residential and commercial collection services for Menominee County, however primarily in the mid- and northern county area. Waste collected is brought to either the North County or Mid-County Transfer Station for eventual disposal at the Wood Island Landfill in Alger County. Residential customers place a tag on bagged garbage; the tags are purchased at local grocery stores.

Great Lakes Pulp Company provides its own waste hauling and disposal capacity for all solid waste generated at the Great Lakes Pulp Company. Disposal costs are the responsibility of Great

Lakes Pulp Company.

Waste Management, Inc. provides service to commercial and industrial accounts within the City of Menominee. The waste is disposed of at the Waste Management's Michigan Environs landfill.

DATA BASE

EVALUATION OF DEFICIENCIES AND PROBLEMS

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

The Great Lakes Pulp Company landfill currently disposes about 140,000 cubic yards of waste per year. Based on the current rate of disposal and the area presently permitted to as a landfill, the landfill has an expected life of 4.8 years. In the near future the company will be examining its options for expanding its present landfill area. A siting mechanism needs to be in place to facilitate the process.

The county board of commissioners previously sponsored an annual Household Hazardous Waste Collection program. The county board has decided to eliminate the program. The program provided the opportunity to county residents for the removal of hazardous materials, including cyanide, corrosive acids, batteries, cleaning supplies, pesticides and other items that are normally found around a house from the waste stream. This program was successful in reducing these items from being placed in the local landfill. The county board used general tax fund dollars to fund the program. The County should examine other methods or avenues of funding this program. One possible source of financing would be contributions from the solid waste industry. Presently, Menominee Township has a host agreement with the Waste Management's Michigan Environs Landfill located within its boundaries. The agreement provides for a number of items, including payment to the Township based on the waste disposed at the landfill.

There are two active landfills located within Menominee Township: Waste Management's Michigan Environs landfill and Great Lakes Pulp Company landfill. A site, previously owned by Menominee Paper Company, is available for construction of a landfill. In addition, Aspen Bay Pulp Mill could likely consider Menominee Township as a location for a possible landfill site. The Menominee Township Board has gone on record opposing the location of future landfills within its boundaries.

There are opportunities for recycling in Menominee County; the City of Menominee has a recycling drop-off site, for city residents only, at city hall, the two Great American Disposal (GAD) solid waste transfer stations (Mid-County and North County) offer recycling drop-off for a fee; recyclable materials can be dropped off, by non-commercial city residents, at no charge at the Waste Management's Michigan Environs Landfill, Ingallston-Menominee transfer station accepts certain materials at no charge and some private waste haulers offer the option to their customers for curbside pick-up of recyclable items. However, the majority of the residents are not recycling, but rather having the items landfilled.

There is the concern that items that are collected for recycling at the transfer stations are not processed for recycling but rather co-mingled with regular garbage and landfilled.

At the solid waste transfer stations, some items are not collected due to the lack of a market.

The Menominee-Ingallston Townships transfer station previously accepted plastics and glass. At present residents may only drop-off newsprint and magazines. Residents need to bring the plastics and glass materials to the Waste Management's Michigan Environs landfill.

The Waste Management's Michigan Environs Landfill serves industries located in both Wisconsin and Michigan. The industries, in order to stay competitive in the market place, need low cost disposal options like those offered by a landfill.

The majority of waste disposed at the Waste Management's Michigan Environs landfill originates from Wisconsin. The Waste Management's Michigan Environs Landfill has accepted waste from a number of Michigan counties, including Dickinson, Alger, Marquette and Delta. The acceptance of waste from counties located in the Upper Peninsula should continue, and the counties that send their wastes to Menominee County for disposal should be willing to accept Menominee County for disposal at their landfill, if there is one.

Presently, tires are collected and properly disposed of at the Waste Management's Michigan Environs Landfill. Options for the use of scrap tires such as energy recovery, pyrolysis of scrap tires, use of scrap tire or crumb blended in with other materials such as asphalt, recycling of scrap tires to manufacture a new product, bonding scrap tire chips or crumbs with another material to form a new product such as a mat should be encouraged.

DATA BASE

DEMOGRAPHICS

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

With a 1990 population of 24,920 persons and a land area of 1043.7 square miles, Menominee County's population density is 23.9 persons per square mile. The highest population density in the County occurs in the Cities of Menominee and Stephenson. Using the projected population figures for the next five and ten-year periods, the population density in Menominee County will decrease to 22.6 persons per square mile by the year 2000. The areas with the highest density, the Cities of Menominee and Stephenson, are home to 41% of the population of Menominee County. Despite the projected population decrease, the City of Menominee, along with Menominee Township, Harris Township, and Spalding Township, will continue to be the population centers in Menominee County for the next five and ten-year periods.

Aside from the large concentration of population in the City of Menominee, the majority of Menominee County's population is proximate to M-35 and east of US-41 and south of County Road 320 in the south county area. The County also has concentrations of persons in the central and north central areas around Powers, Hermansville, Carney, Daggett, Stephenson, and Wallace. There are also growing year-round populations along the Menominee River and along Green Bay

POPULATION TRENDS

AREA	1990 CENSUS	ESTIMATED POPULATION
Menominee County	24,920	24,551
Cedarville Township	185	188
Village of Daggett	260	248
Daggett Township	485	493
Faithorn Township	213	217
Gourley Township	362	368
Harris Township	1,542	1,568
Holmes Township	292	297
Ingallston Township	1,055	1,072
Lake Township	603	613

AREA	1990 CENSUS	ESTIMATED POPULATION
Mellen Township	1,183	1,202
City of Menominee	9,938	8,856
Menominee Township	3,956	4,018
Meyer Township	932	947
Village of Carney	205	205
Nadeau Township	956	972
Village of Powers	424	428
Spalding Township	1,270	1,291
City of Stephenson	904	861
Stephenson Township	695	707

Source: Bureau of the Census, U.S. Department of Commerce, November 1997

WASTE GENERATION PROJECTIONS (POUNDS PER PERSON PER DAY)				
County	1990 Census	1995	2000	2005
Menominee County	2.1	2.2	2.3	2.4

Source: Bureau of the Census, U.S. Department of Commerce, November 1997

POPULATION DENSITY PROJECTIONS (PER SQUARE MILE)(PER SQUARE				
County	1990 Census	1995	2000	2005
Menominee County	23.9	23.5	22.6	21.6

Source: Michigan Department of Management and Budget
Office of the State Demographer 1996

POPULATION PROJECTION				
County	1990 Census	1995	2000	2005
Menominee County	24,920	24,500	23,600	22,500

Source: Michigan Department of Management and Budget
Office of the State Demographer 1996

POPULATION CENTERS 1900-2005					
Township or Municipality	% of County Population	1990 Census	1996	2000	2005
City of Menominee	37.7	9,398	8,856	8,509	8,109
Harris Township	6.2	1,542	1,568	1,510	1,439
Menominee Township	15.9	3,956	4,018	3,868	3,686
Spalding Township	6.2	1,536	1,719	1,655	1,577

Source: Michigan Department of Management and Budget
Office of the State Demographer 1996

DATA BASE

LAND DEVELOPMENT

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

RESIDENTIAL

The highest concentration of residential land use in Menominee County is located within the City of Menominee urban center. The pattern of residential growth can be seen in the distribution of newer homes, as with the recent residential developments on Circle Lane and north and south of 30th Avenue in the area east of the airport. Other areas of residential growth in the City of Menominee are developing along 18th Street north of 38th Avenue, in the area between U.S. 41 and M-35 at the northern edge of the City, and along the Bay of Green Bay south and west of Henes Park. A manufactured housing development has also been established south of the Menominee Industrial Park, along 13th Street.

Menominee's downtown area contains the First Street Historic District, covering several blocks and containing a number of attractive and historic buildings. Some interest has been expressed in developing residential uses on the upper floors of these buildings, while using the ground floor for retail and service businesses. Zoning in this area has been amended to allow for such uses, providing the opportunity for residential expansion.

A new waterfront development project along Green Bay frontage is in progress in the City of Menominee. Plans are to construct condominiums along the waterfront. The initial construction plans include building four condominiums in the first stage. As the condos are sold, more will be constructed to meet the demand of the market.

In the out county area, the majority of new residential development is occurring along or within close proximity to Lake Michigan. As a result of the prosperous economy in the Iron Mountain - Kingsford area, new residential housing is being built in the far northwestern portion of the county, especially in Faithorn Township bordering Dickinson County.

The population density in Menominee Township, which adjoins the City of Menominee on the north and west, is experiencing residential growth.

COMMERCIAL

As with residential development, the highest concentration of commercial land use in Menominee County is located in the City of Menominee urban center. Commercial land uses in the City are generally clustered along the major transportation corridors, following the U.S. 41 corridor, and also along 13th Street. The historic 1st Street waterfront area contains many commercial establishments and there are also pockets of commercial development in residential areas throughout the City. The commercial uses along U.S. 41 include retail and service establishments, restaurants, motels, automobile dealerships, etc. This area is most attractive to businesses that rely on a highway location to attract drive-by traffic, including tourists. This corridor has seen considerable growth in commercial use. Much of the area between 10th Street and the Bay of Green Bay north of 18th Avenue, which was previously undeveloped, has been occupied by commercial uses.

In the out county area, concentrated commercial and business sites are found in the communities of Stephenson, Cedar River, and Carney. Numerous commercial and business sites are also found along US Highway 41 throughout the areas of Daggett, Wallace, and Powers and Hermansville on US2.

INDUSTRIAL

Sites for industrial development in Menominee County are primarily located in the City of Menominee urban center. Industrial uses in the City are intermingled with residential and commercial uses in many areas. Furthermore, rather than being confined to a single industrial park or district, industrial uses are located throughout the City. Primary concentrations of industrial uses are along the Menominee River and in the Menominee Industrial Park on the north edge of the City. Other industrial operations are located along the Green Bay shoreline, at the Twin County Airport, between 10th and 13th Streets, and include a variety of industrially zoned sites. Outside the urban center, opportunities for large-scale industrial development are limited by the availability of transportation facilities and municipal services, such as sewer and water.

PROJECTED LAND DEVELOPMENT PATTERNS

The Menominee Industrial Park is about 75 percent occupied, with only about 20 acres available for development. With the construction of the Great Lakes Pulp Company deinking plant and the Aspen Bay Pulp plant along the Menominee River, the industrial areas along the river are also being filled up. There may be a need to designate additional industrial areas in the County.

The presence of contaminated sites within or near the City of Menominee is a constraint on development in areas of the County. In addition to posing a health and safety risk, such sites place an economic burden on businesses, individuals and often the community as a whole.

Land use patterns in general are influenced by physical features, such as the Menominee River and the Bay of Green Bay, the presence of wetlands or high water tables, etc. For example, the easy access to water and shoreline in the City of Menominee represents opportunities for waterfront residential development, or industrial development where industries require large quantities of water. On the other hand, the physical extent of such development is limited by the amount of land available and the environmental constraints that often exist in these areas.

A new \$23.5 million gaming complex has been constructed by the Hannahville Indian Community in Harris. The new resort includes a new casino, 113 room hotel, two restaurants, three bar lounges speciality shops and a swimming area with heated sand beach.

SELECTED SYSTEM

DATA BASE

SOLID WASTE MANAGEMENT ALTERNATIVES (attach additional pages as necessary)

The following briefly describes all solid waste management systems considered by the County and how each alternative will meet the needs of the County. The manner of evaluation and ranking of each alternative is also described. Details regarding the Selected Alternatives are located in the following section. Details regarding each non-selected alternative are located in Appendix B.

Alternative #1: Out-of-County Landfilling

Under this alternative, all waste generated within Menominee County would be shipped out of the county for disposal. Disposal of the wastes would be in either Wisconsin or a landfill located in the Upper Peninsula. The wastes would be shipped out of County for disposal through the use of a transfer station facility or hauled by waste collection companies. All existing landfills would be closed.

The need for source reduction and reuse of materials before it reaches the waste stream would be stressed. An increase in recycling and composting efforts would assist in reducing the volume of waste that would be required to be hauled to the landfill.

The programs could be expanded through the acceptance of additional materials, increased operation hours and increased public awareness efforts. Curbside pick-up of materials would be offered by private waste haulers or the public sector.

Ranking: #2

Evaluation: This alternative would eliminate any negative impacts to the environment as a result of landfilling. The investments made by the local waste industry and private firms to develop landfill facilities would become defunct; new infrastructure (transfer stations, and the like) would need to be developed. Arrangements would need to be in place to assure disposal capacity for residents and business. New business may not locate in Menominee because of the lack of adequate disposal facilities.

SELECTED SYSTEM

Alternative #2: Waste Incineration

All combustible wastes collected in county would be incinerated for generating electricity at a waste to energy facility in Menominee. Non-combustible wastes and incinerator ash (if a local facility is used) would need to be landfilled.

Waste collection would be handled by either private or public waste collection firms. There would be an increase in the recycling and composting efforts.

The program could be expanded through the acceptance of additional materials, increased operation hours and increased public awareness efforts. Curbside pick-up of materials would be offered by private waste haulers or the public sector.

Ranking: #3

Evaluation: Nationally, about 14 percent of municipal wastes are incinerated, which is a viable option in certain areas. Air emission regulations have increased the cost of incineration. As costs have increased, the popularity of incineration has lessened.

The disposal of incinerator ash may pose environmental concerns.

Alternative #3: Continue with Existing Landfilling and Transfer Facilities

Waste generated within the county would be landfilled at the existing landfills, or shipped to out-of county landfills. The private sector would continue to own and operate the facilities. The cost for the operations would be the responsibility of the users.

Landfill expansions would be permitted in accordance with the siting criteria of the solid waste plan.

Waste collection would be handled by either private or public waste collection firms.

The current voluntary recycling/composting program in the county would be expanded to increase participation of residents and businesses. The programs could be expanded through the acceptance of additional materials, increased operation hours and increased public awareness efforts. Curbside pick-up of materials could be offered by private waste haulers or the public sector. Increases in program operations (i.e. materials collected, operational hours and locations) will depend upon increase in the ed market demand of materials.

SELECTED SYSTEM

Ranking: #1

Evaluation: This alternative is the present method of waste management in the county. The infrastructure has been established and investments have been made in program development. The existing landfill is capable of handling the waste disposal needs of the community. There has not been widespread opposition to the current method of waste handling.

MANAGEMENT SYSTEM

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

SELECTED SOLID WASTE SYSTEM FOR MENOMINEE COUNTY

The selected solid waste management system for Menominee County consists of:

Waste Disposal:

Out-of county landfilling: Continue to utilize landfills located in other counties (at this time Alger County is used for waste disposal) for disposal of household and commercial wastes. Presently there are two transfer stations that ship waste to out-of-county facilities, i.e., Mid-County and North County.

In-county landfilling: Continue to utilize landfill(s) in the county for disposal of household and commercial wastes. Siting criteria in the Plan allows for a maximum of two Type II landfills in the county serving the general county population.

Industrial landfills: Siting of additional landfills for industrial use is permitted, according to the siting criteria in the Plan.

Waste Collection:

Continue with municipal waste collection service: The City of Menominee would continue to provide curbside pickup of solid waste within the city. The city would continue to levy a property tax millage to pay for the service.

SELECTED SYSTEM

Transfer Station Collection: Currently there are three transfer stations serving the county: Menominee-Ingallston, North County and Mid County. The siting criteria permits additional transfer station facilities.

Resource Recovery Efforts:

Efforts should be made to increase voluntary recycling/composting participation.

Hazardous Waste Extraction: Efforts will be made to obtain funding for the household hazardous waste collection program.

County residents have the opportunity to dispose of unwanted pesticides and herbicides at the Upper Peninsula Pesticide Collection Program, located at the Delta Landfill in Escanaba.

SELECTED SYSTEM

IMPORT AUTHORIZATION

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

Table 1-A

CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME ¹	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS ²
<u>Menominee</u>	<u>Houghton</u>	—	—	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Schoolcraft</u>	—	—	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Alger</u>	—	—	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Iron</u>	—	—	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Gogebic</u>	—	—	<u>100%</u>	<u>P</u>

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

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

SELECTED SYSTEM

<u>Menominee</u>	<u>Mackinac</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Baraga</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Chippewa</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Ontonagon</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Dickinson</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Delta</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Keewenaw</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Marquette</u>	<u>100%</u>	<u>P</u>
<u>Menominee</u>	<u>Luce</u>	<u>100%</u>	<u>P</u>

All conditions for imports are found on Page D-6.

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

Table 1-B

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

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME ¹	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS ²
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---

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

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

SELECTED SYSTEM

EXPORT AUTHORIZATION

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

Table 2-A

CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

Exporting County	Importing County	Facility Name ¹	Authorized Quantity/Daily	Authorized Quantity/Annual	Authorized Conditions ²
Menominee	Alger			100%	P
Menominee	Baraga			100%	P
Menominee	Chippewa			100%	P
Menominee	Gogebic			100%	P
Menominee	Houghton			100%	P
Menominee	Iron			100%	P
Menominee	Keweenaw			100%	P
Menominee	Luce			100%	P
Menominee	Mackinac			100%	P
Menominee	Ontonagon			100%	P
Menominee	Schoolcraft			100%	P
Menominee	Dickinson			100%	P
Menominee	Delta			100%	P
Menominee	Marquette			100%	P

SELECTED SYSTEM

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

Table 2-B

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

EXPORTING COUNTY	IMPORTING COUNTY	FACILITY NAME ⁵	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS ⁶
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—
—	—	—	—	—	—

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

⁵ Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.

⁶ Authorization indicated by P = Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

SOLID WASTE DISPOSAL AREAS

The following identifies the names of existing disposal areas which will be utilized to provide the required capacity and management needs for the solid waste generated within the County for the next five years and, if possible, the next ten years. Pages III-7-1 through III-7-5 contain descriptions of the solid waste disposal facilities which are located within the County and the disposal facilities located outside of the County which will be utilized by the County for the planning period. Additional facilities within the County with applicable permits and licenses may be utilized as they are sited by this Plan, or amended into this Plan, and become available for disposal. If this Plan update is amended to identify additional facilities in other counties outside the County, those facilities may only be used if such import is authorized in the receiving County's Plan. Facilities outside of Michigan may also be used if legally available for such use.

Type II Landfill:

Wood Island Landfill
Waste Management's Michigan Environs
Landfill

Type A Transfer Facility:

Mid-County Transfer Station
North County Transfer Station

Type B Transfer Facility:

Menominee/Ingallston Transfer Station

Type III Landfill:

Great Lakes Pulp Company
HMSH, Inc.

Processing Plant:

Incinerator:

Waste Piles:

Waste-to-Energy Incinerator:

Other:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Waste Management's Michigan Environs Landfill

County: Menominee Location: Town: 32N Range: 27W Section(s): 3,4,9,10

Map identifying location included in Attachment Section: Yes No

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

Public Private Owner: Waste Management

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

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

This landfill is permitted to accept all waste streams as defined by DEQ for a Type II landfill.

Site Size:

Total area of facility property:	<u>240</u>	acres
Total area sited for use:	<u>240</u>	acres
Total area permitted:	<u>80</u>	acres
Operating:	<u>14.68</u>	acres
Not excavated:	<u>65.32</u>	acres
Current capacity:	<u>4.4 mil</u>	yds ³
Estimated lifetime:	<u>19</u>	years
Estimated days open per year:	<u>281</u>	days
Estimated yearly disposal volume:	<u>275,000</u>	tons

(if applicable)

Annual energy production:

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Wood Island Waste Management, Inc.

County: Alger Location: Town: 46N Range: 18W Section(s):

Map identifying location included in Attachment Section: Yes No

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

 Public Private Owner: Wood Island Waste Management, Inc.

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

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

Site Size:

Total area of facility property:	<u>325</u>	acres
Total area sited for use:	<u>67</u>	acres
Total area permitted:	<u>28</u>	acres
Operating:	<u>11.4</u>	acres
Not excavated:	<u>17.6</u>	acres
Current capacity:	<u>1,500,000</u>	tons or yds ³
Estimated lifetime:	<u>20</u>	years
Estimated days open per year:	<u>316</u>	days
Estimated yearly disposal volume:	<u>78,000</u>	tons or yds ³

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
 Facility Name: Menominee-Ingallston Transfer Station

County: Menominee Location: Town: 32N Range: 26 Section(s): 6

Map identifying location included in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : Waste Management's Michigan Environs Landfill

Public Private Owner: Menominee Township and Ingallston Township

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
	licensed		industrial
X	unlicensed		construction & 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:	<u>40</u>	acres
Total area sited for use:	<u>2</u>	acres
Total area permitted:	<u>N/A</u>	acres
Operating:	_____	acres
Not excavated:	_____	acres
Current capacity:	<u>N/A</u>	tons or yds ³
Estimated lifetime:	_____	years
Estimated days open per year:	_____	days
Estimated yearly disposal volume:	_____	tons or yds ³

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station
Facility Name: Mid-County Transfer Station

County: Menominee Location: Town: 36N Range: 27W Section(s): 35

Map identifying location included in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : Wood Island Waste Management, Inc.

Public Private Owner: Great American Environmental Services, Inc.

Operating Status (check)	Waste Types Received (check all that apply)
X open	X residential
closed	X commercial
licensed	industrial
X unlicensed	construction & 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 yds³
 Estimated lifetime: _____ years
 Estimated days open per year: _____ days
 Estimated yearly disposal volume: _____ tons or yds³

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station
Facility Name: North County Transfer Station

County: Menominee Location: Town: 38N Range: 26W Section(s): 15

Map identifying location included in Attachment Section: Yes No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : Wood Island Waste Management, Inc.

Public Private Owner: Great American Environmental Services, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
X	open	X	residential
	closed	X	commercial
X	licensed	X	industrial
	unlicensed	X	construction & demolition
	construction permit		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 yds ³
Estimated lifetime:	_____	years
Estimated days open per year:	_____	days
Estimated yearly disposal volume:	_____	tons or yds ³
(if applicable)		
Annual energy production:		
Landfill gas recovery projects:	_____	megawatts
Waste-to-energy incinerators:	_____	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type III Industrial Waste Landfill Site
 Facility Name: HMSH, Inc. Type III Landfill (previously called Menominee Paper SW Disposal Facility)
 County: Menominee Location: Town: 32N Range: 27W Section(s): 16

Map identifying location included in Attachment Section: Yes No

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

Public Private Owner: HMSH, Inc.

Operating Status (check)		Waste Types Received (check all that apply)
	open	residential
	closed	commercial
	licensed	X industrial
X	unlicensed	construction & 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:	<u>80</u>	acres
Total area sited for use:	<u>20</u>	acres
Total area permitted:	<u>16</u>	acres
Operating:	<u>0</u>	acres
Not excavated:	<u>16</u>	acres
Current capacity:	<u>722,000</u>	tons or yds ³
Estimated lifetime:	<u>0</u>	years
Estimated days open per year:	_____	days
Estimated yearly disposal volume:	_____	tons or yds ³

(if applicable)

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type III Low Hazard Industrial Waste Landfill

Facility Name: Great Lakes Pulp Type III Landfill

County: Menominee Location: Town: 33N Range: 27W Section(s): 29,30

Map identifying location included in Attachment Section: X Yes No

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

Public Private Owner: Great Lakes Pulp Company

Operating Status (check)

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

Waste Types Received (check all that apply)

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

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

Site Size:

Total area of facility property:	<u>200</u>	acres
Total area sited for use:	<u>140</u>	acres
Total area permitted:	<u>61</u>	acres
Operating:	<u>61</u>	acres
Not excavated:	<u>7.9</u>	acres
Current capacity:	<u>650,000</u>	tons or yds ³
Estimated lifetime:	<u>4.8</u>	years
Estimated days open per year:	<u>350</u>	days
Estimated yearly disposal volume:	<u>140,000</u>	tons or yds ³

(if applicable)

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

SELECTED SYSTEM

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION:

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

SERVICE PROVIDER	PUBLIC /PRIVATE	SERVICE AREA	PAYMENT	DISPOSAL FACILITY
Boivin Disposal	Private	City of Menominee	Customer	Waste Management's Michigan Environs Landfill
City of Menominee	Public	City of Menominee	Millage on property tax	Waste Management's Michigan Environs Landfill
G-Man Disposal	Private	Ingallston and Menominee Townships	Customer	Waste Management's Michigan Environs Landfill
Great American Disposal	Private	Menominee County	Customer	Wood Island Landfill
Great Lakes Pulp Company	Private	Great Lakes Pulp Company	Great Lakes Pulp Co.	Great Lakes Pulp Company Landfill
Waste Management, Inc.	Private	City of Menominee	Customer	Waste Management's Michigan Environs Landfill

Boivin Disposal provides residential and commercial collection services for residents in the City of Menominee. The collected waste is hauled to the Waste Management's Michigan Environs Landfill. Service is charged to individual customers based on frequency of collection and type of service provided.

City of Menominee provides solid waste collection services for the residents of the City of Menominee. Three mills on the city property tax fund this service. Both commercial and residential customers are serviced by this collection service.

G-Man Disposal collects residential wastes within Ingallston and Menominee Townships. The waste is disposed of at the Waste Management's Michigan Environs Landfill. The service fee includes both pick-up of garbage and recyclable material. Recyclable materials are brought to the Waste Management's Michigan Environs Landfill.

Great American Disposal provides residential and commercial collection services for Menominee County, however primarily in the mid- and northern county area. Waste collected is brought to either the North County or Mid-County Transfer Station for eventual disposal at the Wood Island Landfill in Alger County. Residential customers place a tag on bagged garbage; the tags are purchased at local grocery stores

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Great Lakes Pulp Company provides its own waste hauling and disposal capacity for all solid waste generated at the Great Lakes Pulp Company. The costs are the responsibility of Great Lakes Pulp Company.

Waste Management, Inc. provides service to commercial and industrial accounts within the City of Menominee. The waste is hauled to Waste Management's Michigan Environs landfill in Menominee Township.

RESOURCE CONSERVATION EFFORTS:

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

Effort Description	Est. Diversion Tons/Yr		
	<u>Current</u>	<u>5th yr</u>	<u>10th yr</u>
Source Reduction	380	399	419

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

Source Reduction is gaining more attention as an important solid waste management option. Often called "waste prevention", source reduction is defined by EPA as "any change in the design, manufacturing, purchase, or use of materials or products to reduce the amount or toxicity before they become municipal solid waste. Prevention also refers to the reuse of products or materials." The idea behind source reduction is simple: the best and most cost effective way to reduce waste is to not make it. By reducing and eliminating waste generation, the total solid waste load can be decreased 3 to 5 percent. This reduction in solid waste is beneficial both economically and environmentally. As waste disposal costs escalate, reduction of generated waste may yield significant savings. Disposal and raw material costs will decrease, and the workplace may become cleaner and safer. Reduction of hazardous materials can also reduce long-term liability costs. As indicated, source reduction can benefit both business and the environment.

Some examples of source reduction involve everyday grocery shopping. Buying food in bulk and using household reusable containers is an excellent waste prevention alternative. This

SELECTED SYSTEM

method eliminates some packaging wastes that may otherwise be added to the solid waste stream. Another example involves grocery sacks. Reusing grocery sacks is helpful, especially if it's a cloth bag that can be used many items. Instead of recycling the grocery bags, the bag should just be reused if it is going back to the store anyway. Another grocery item, a plastic milk jug, is an item that could be reused instead of recycled. Reusing the plastic milk jug keeps the item out of the waste stream while providing a convenient container.

Junk mail proves to be an item that can be limited by source reduction. The production of junk mail can be limited by writing or calling companies and organizations directly and asking them to remove your name from mailing lists.

Unnecessary clean-up materials can be eliminated by source reduction. A rag or washcloth can be washed many times before it needs to be replaced. A rag is even derived from a previously used item. A sponge is the next best option. A sponge is good because it is a multi-use item, but used sponges are thrown out when they become worn. Paper towels are the most wasteful alternative because they are single-use items. Paper towels made from recycled paper should be used whenever possible.

Using cloth products, such as cloth diapers and napkins, eliminates a great deal of waste. Disposable diapers now make up approximately 2% of our country's municipal solid waste streams and their production may be energy-intensive. Using cloth diapers prevents the disposable diaper from entering the waste stream. Cloth napkins can be washed and reused dozens or even hundreds of times. Paper napkins are only used once and are thrown out. A compromise approach when paper napkins are a must would be to purchase recycled paper napkins.

WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS:

Volume Reduction Techniques

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

Technique Description	Est. Air Space Conserved Yds ³ /Yr		
	<u>Current</u>	<u>5th yr</u>	<u>10th yr</u>
Transfer Station Compactor	33	40	43

Overview of Resource Recovery Programs:

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

Recycling:

Menominee County's waste stream is typical of other counties in the Upper Peninsula. Materials such as metals, corrugated cardboard, magazines, glass and plastic are routinely landfilled with other solid waste.

Opportunities exist locally to divert such items from the waste stream. The three transfer stations, private waste haulers and the City of Menominee have recycling programs in place.

Lacking strong prices and the distance from markets is a major obstacle for continued recycling programs. Many people have the idea that recycling is "free" and those in the business generate a profit. Though that may be the case in other locations in Michigan or the country, for Menominee County there is a cost that is absorbed by those providing the service. The community recognizes that recycling helps preserve resources and save valuable landfill space.

Composting:

Yard trimmings and grass clippings are materials considered by many to be a waste. Options exist for the homeowner to utilize backyard composting techniques. The City of Menominee has a drop-off area for yard waste. There is no large scale composting program for county residents.

Household Hazardous Waste:

Eliminating household hazardous waste from the waste stream is a very important management goal. The result will be in saving valuable landfill space and reducing future liability as a result of environmental impacts of landfilling. County residents can participate in the disposal of herbicides and pesticides through the collection program offered at the Delta County Landfill.

Funding for the county-wide household hazardous waste collection has been eliminated.

RECYCLING AND COMPOSTING

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

Menominee County has a number of recycling opportunities with municipal drop-off programs, curbside pick-up services, and transfer station facilities. The amount of recyclable waste collected is not readily available. Only the City of Menominee keeps records of these numbers because of grant requirements. Using USEPA waste generation numbers, estimated tons of selected materials generated within the county was developed. Based on recycling rates found in other communities, an estimate of recovered waste was developed.

MATERIALS	MATERIALS GENERATED	MATERIAL RECOVERY ESTIMATE
Paper and paperboard	20822 tons	379 tons
Glass	3293 tons	95 tons
Metals		
Ferrous	2974 tons	76 tons
Aluminum	743 tons	7 tons
Plastics	4833 tons	17 tons
<i>Total Other Wastes</i>	32665 tons	562 tons

MUNICIPAL DROP-OFF PROGRAMS

Waste Management's Michigan Environs Landfill supplies bins for depositing recyclable materials at the landfill entrance. This recycling service is open for use by the general public. The collected recyclable materials consist of office waste, #1 and #2 plastics, aluminum and tin cans, cardboard, and glass products (clear, green, and brown).

The City of Menominee recycling center receives about 200 tons of recyclable materials annually. Materials collected at the center include newspapers, cardboard and paper products, plastics, glass and tin. The city has an agreement with Goodwill Industries to manage the drop-off site. Two workers are at the site about 60

SELECTED SYSTEM

hours a week accepting the materials and baling newsprint and corrugated cardboard. Last year the center collected over 250 tons of recyclable materials. The glass products collected are picked-up by Waste Management, Inc. and hauled to their landfill in Menominee. The old corrugated cardboard (OCC) and old newsprint (ONP) materials are shipped to Fibers Unlimited in Green Bay, WI.

Menominee-Ingallston Transfer Station collects newspaper and magazines at their facility. The products are collected and hauled by Waste Management. The materials are then sorted and processed for delivery to end markets or brokers. There is no charge to drop-off recyclable materials.

North County Transfer Station accepts the following materials: glass, #1 and #2 plastics, tin, aluminum, paper and paperboard products. There is a charge of one dollar per bag for recyclable material drop-off. The collected recyclable materials are sent to various markets, depending on demand. The collected glass products are sent to Wood Island Landfill in Wetmore, MI, to be crushed and reused in the construction of new roads.

Mid-County Transfer Station accepts the following materials: glass, #1 and #2 plastics, tin, aluminum, paper and paperboard products. There is a charge of one dollar per bag for recyclable material drop-off. The collected recyclable materials are sent to various markets, depending on demand. The collected glass products are sent to Wood Island Landfill in Wetmore, MI, to be crushed and reused in the construction of new roads. Used waste oil is also collected on site.

CURBSIDE PICK-UP

The areas receiving curbside service are commercial sites in the City of Menominee and residential and commercial sites in Menominee and Ingallston Townships. G-Man Disposal provides waste removal and recycling service to residents of the Townships of Menominee and Ingallston while Boivin Disposal offers recyclable material pick-up service to commercial sites within the City of Menominee.

Boivin Disposal provides recycling pick-up service to commercial establishments in the City of Menominee. Materials collected include: #1 and #2 plastic, tin, glass, and paper/paperboard products.

G-Man Disposal offers a curbside pick-up service to residential and commercial sites in the Townships of Menominee and Ingallston. The recyclable materials that are collected from these establishments are brought to the Waste Management's Michigan Environs Landfill.

ALTERNATIVE RECYCLING PROGRAMS

Men-o-Mee Activity Center in Hermansville performs some limited recycling activities. The recycling program which began in February of 1998, includes picking-up post consumer paper waste from the Iron Mountain post office and processing at their facility in Hermansville. The paper products are sent to various markets. Paper products and corrugated paper are collected from local schools, grocery stores and the Pinecrest facility. Presently, the recycling program does not involve the general public. However, there are plans to include the general public in the future.

SELECTED SYSTEM

COMPOSTING

There is a seasonal drop-off site for compostable material behind the city garage in Menominee. Compostable material includes leaves, yard trimmings, grass clippings, etc. During the past year, 1,563 cubic yards of compostable material was collected at this site. The composted materials were hauled away from the site by the private contractor M&M Trucking at the cost of \$4,220/year.

A site on 56th Street in the City of Menominee is used by city workers for the disposal of brush and Christmas trees collected within the City. Presently, the city administration has no plans to develop this area as a public composting site.

HOUSEHOLD HAZARDOUS WASTE EXTRACTION

While much attention is focused on hazardous wastes generated by manufacturing and industry, the individual household continues to contribute to such pollution. Many pesticides, automotive and cleaning supplies, weed killers, and paints contain toxic chemicals, which create a problem when they need to be disposed of.

Hazardous substances disposed of with the weekly garbage will enter the landfill and may enter into the soil and contaminate the groundwater. Wastes poured directly on the ground could contaminate underground drinking water. Toxic wastes discharged directly into lakes and streams or indirectly through storm drains could harm the aquatic environment.

Many County residents are not aware of the impact on the environment created by the disposal of hazardous wastes. One household alone usually does not generate enough hazardous wastes to create a problem. However, collectively there should be concern. Many toxic chemicals cannot be broken down and remain toxic for many years.

Hazardous household wastes in Menominee County were collected in a rotational fashion. The drop-off location alternated between Menominee, Stephenson, and Powers. The County Board of Commissioners paid for the hazardous household waste program. During 1995, the Board of Commissioners paid \$25,344.50 to Clean Harbors for hazardous household waste pick-up at the Road Commission garage in Stephenson, MI. During 1996, \$17,090.95 was paid to Clean Harbors for hazardous household waste pick-up at the public works garage in Menominee, MI.

When the materials were collected at the drop-off site, Clean Harbors Environmental Services of Chicago, Illinois, packaged the hazardous materials and transported them to Chicago where they were disposed. Materials collected by Clean Harbors include paint thinner, pesticides, pool chemicals, oven cleaners, batteries, oil based paint, antifreeze, and old chemistry sets.

Menominee County residents have the opportunity to participate in the Upper Peninsula Pesticide Waste Collection Program at the Delta County Landfill. This program is the only state-funded pesticide disposal site located in the Upper Peninsula. It is a cooperative effort between the Michigan Department of

SELECTED SYSTEM

Agriculture, the Delta Solid Waste Management Authority and the U.S. Environmental Protection Agency (). Upper Peninsula residents are invited to dispose of unused and unwanted pesticides by taking them to the site, where they will be collected and packaged for shipping to an appropriate disposal site. Certain guidelines must be followed for the safe transport of the hazardous wastes to the Delta County Landfill and drop-off can occur by appointment only. The service is free for all Upper Peninsula residents.

TABLE III-1

RECYCLING:

<u>Program Name</u>	<u>Service Area</u> ⁷	<u>Public or Private</u>	<u>Collection Point</u> ⁹	<u>Collection Frequency</u> ¹⁰	<u>Materials</u>	<u>Program Management Responsibilities</u> ⁸		
						<u>Collected</u> ¹¹	<u>Development</u>	<u>Operation</u>
City of Menominee	City of Menominee	<u>Pub</u>	<u>D</u>	<u>D</u>	<u>ABCDEF</u>	<u>6</u>	<u>6</u>	<u>6</u>
Private Hauler Curbside	Menominee/Ingallston Twp.	<u>Pri</u>	<u>—</u>	<u>—</u>	<u>ABCDEF</u>	<u>5</u>	<u>5</u>	<u>5</u>
GAD Transfer Station		<u>Pri</u>	<u>D</u>	<u>D</u>	<u>ABCDE</u>	<u>5</u>	<u>5</u>	<u>5</u>
Menominee/Ingallston Transfer Station	Menominee/Ingallston Twp.	<u>Pub</u>	<u>D</u>	<u>D</u>	<u>BD</u>	<u>6</u>	<u>6</u>	<u>6</u>
Men-O-Mee Activity Center		<u>Pri</u>	<u>O</u>	<u>W</u>	<u>D</u>	<u>5</u>	<u>5</u>	<u>5</u>
		<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

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

⁷ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

⁸ Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page III-36); 5 = Private Owner/Operator; 6 = Other (Identified on page III-36).

⁹ Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

¹⁰ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

¹¹ Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2 etc. = as identified on page III-37.

TABLE III-2

COMPOSTING:

<u>Program Name</u>	<u>Service Area</u> ¹²	<u>Public or Private</u>	<u>Collection Point</u> ¹⁴	<u>Collection Frequency</u> ¹⁵	<u>Materials</u>	<u>Program Management Responsibilities</u> ¹³		
						<u>Collected</u> ¹⁶	<u>Development</u>	<u>Operation</u>
City of Menominee	Menominee City	<u>Pub</u>	<u>D</u>	<u>Sp, Fa, Su</u>	<u>GL</u>	<u>6</u>	<u>6</u>	<u>6</u>
		<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
		<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

¹² Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

¹³ Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page III-36); 5 = Private Owner/Operator; 6 = Other (Identified on page III-36).

¹⁴ Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

¹⁵ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

¹⁶ Identified by the materials collected by listing of the letter located by that material type. G = Grass Clippings; L = Leaves; F = Food; W = Wood; P = Paper; S = Municipal Sewage Sludge; A = Animal Waste/Bedding; M = Municipal Solid Waste; L1, L2 etc. = as identified on page III-37.

TABLE III-3

SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

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

<u>Program Name</u>	<u>Service Area</u> ¹⁷	<u>Public or Private</u>	<u>Collection Point</u> ¹⁹	<u>Collection Frequency</u> ²⁰	<u>Materials</u>	<u>Program Management Responsibilities</u> ¹⁸		
						<u>Collected</u> ²¹	<u>Development</u>	<u>Operation</u>
Menominee County	Menominee County	<u>Pub</u>	<u>D</u>	<u>Sp</u>	<u>Ar, A, An</u> <u>Bi, C, H, P, PS, PH</u>	<u>6</u>	<u>6</u>	<u>6</u>
		<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>
		<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

Evaluation

¹⁷ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in

specific municipalities, then listed by its name and respective county.

¹⁸ Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page III-36); 5 = Private Owner/Operator; 6 = Other (Identified on page III-36).

¹⁹ Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

²⁰ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

²¹ Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

TABLE III-4

PROPOSED RECYCLING:

<u>Program Name</u> (if known)	<u>Service Area</u> ²²	<u>Public or Private</u>	<u>Collection Point</u> ²⁴	<u>Collection Frequency</u> ²⁵	<u>Materials</u>	<u>Program Management Responsibilities</u> ²³		
						<u>Collected</u> ²⁶	<u>Development</u>	<u>Operation</u>
	<u>Evaluation</u>							
	Not Available				---	---	---	---

²² Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in

specific municipalities, then listed by its name and respective county.

²³ Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page III-36); 5 = Private Owner/Operator; 6 = Other (Identified on page III-36).

²⁴ Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

²⁵ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

²⁶ Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2 etc. = as identified on page III-37.

TABLE III-5

PROPOSED COMPOSTING:

<u>Program Name</u> (if known)	<u>Service Area</u> ²⁷	<u>Public or Private</u>	<u>Collection Point</u> ²⁹	<u>Collection Frequency</u> ³⁰	<u>Materials Collected</u> ³¹	<u>Program Management</u>	<u>Responsibilities</u> ²⁸
						<u>Development</u>	<u>Operation</u>

Evaluation

Not Available

²⁷ Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

²⁸ Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page III-36); 5 = Private Owner/Operator; 6 = Other (Identified on page III-36).

²⁹ Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

³⁰ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

³¹ Identified by the materials collected by listing of the letter located by that material type. G = Grass Clippings; L = Leaves; F = Food; W = Wood; P = Paper; S = Municipal Sewage Sludge; A = Animal Waste/Bedding; M = Municipal Solid Waste; L1, L2 etc. = as identified on page III-37.

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

<u>Program Name</u> (if known)	<u>Service Area</u> ³² <u>Evaluation</u>	<u>Public or Private</u>	<u>Collection Point</u> ³⁴	<u>Collection Frequency</u> ³⁵	<u>Materials Collected</u> ³⁶	<u>Program Management Responsibilities</u> ³³ <u>Development</u> <u>Operation</u>
-----------------------------------	--	--------------------------	---------------------------------------	---	--	---

Not Available.

³² Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.

³³ Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page III-36); 5 = Private Owner/Operator; 6 = Other (Identified on page III-36).

³⁴ Identified by c = curbside; d = drop-off; o = onsite; and if other, explained.

³⁵ Identified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

³⁶ Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES:

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

Environmental Groups:

Other:

City of Menominee – City operated/maintained recycling and composting program

Menominee/Ingallston Township – joint township operated/maintained recycling program

SELECTED SYSTEM

PROJECTED DIVERSION RATES:

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

<u>Collected Material:</u>	<u>Projected Annual Tons Diverted:</u>			<u>Collected Material:</u>	Current	5th Yr	10th
	Current	5th Yr	10th Yr				
TOTAL PLASTICS:	<u>17</u>	<u>20</u>	<u>25</u>	G. GRASS AND LEAVES:	___	___	___
B. NEWSPAPER:	___	___	___	H. TOTAL WOOD WASTE:	___	___	___
C. CORRUGATED CONTAINERS:	___	___	___	I. CONSTRUCTION AND DEMOLITION:	___	___	___
D. TOTAL OTHER PAPER:	<u>474</u>	<u>500</u>	<u>525</u>	J. FOOD AND FOOD PROCESSING:	___	___	___
E. TOTAL GLASS:	<u>95</u>	<u>100</u>	<u>105</u>	K. TIRES:	___	___	___
F. OTHER MATERIALS:				L. TOTAL METALS:	<u>83</u>	<u>87</u>	<u>92</u>

MARKET AVAILABILITY FOR COLLECTED MATERIALS:

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

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

SELECTED SYSTEM

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

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

<u>Program Topic</u> ¹	<u>Delivery Medium</u> ²	<u>Targeted Audience</u> ³	<u>Program Provider</u> ⁴
<u>1</u>	<u>f,n</u>	<u>p</u>	<u>Waste Management's Michigan Environs Landfill</u>
<u>1,2,3</u>	<u>n,o</u>	<u>p</u>	<u>MSU Extension</u>
<u>1</u>	<u>f,n</u>	<u>p</u>	<u>Great American Disposal</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

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

² Identified by w = workshop; r = radio; t = television; n = newspaper; o = organizational newsletters; f = flyers; e = exhibits and locations listed; and ot = other which is explained.

³ Identified by p = general public; b = business; i = industry; s = students with grade levels listed. In addition if the program is limited to a geographic area, then that county, city, village, etc. is listed.

⁴ Identified by EX = MSU Extension; EG = Environmental Group (Identify name); OO = Private Owner/Operator (Identify name); HD = Health Department (Identify name); DPA = Designated Planning Agency; CU = College/University (Identify name); LS = Local School (Identify name); ISD = Intermediate School District (Identify name); O = Other which is explained.

SELECTED SYSTEM

TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

This timetable is a guideline to implement components of the Selected System. The Timeline gives a range of time in which the component will be implemented such as "1995-1999" or "On-going." Timelines may be adjusted later, if necessary.

TABLE III-7

Management Components	Timeline
Resource Recovery Programs	on-going
Volume Collection Techniques	on-going
Collection Process	on-going
Landfilling	on-going
Enforcement Provisions	on-going

SITING REVIEW PROCEDURES

SITING CRITERIA AND PROCESS

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

AUTHORIZED NEW DISPOSAL AREAS:

For disposal of wastes, the following facilities are identified as consistent with the Menominee County Solid Waste Plan:

Great Lakes Pulp Company Type III landfill: Any further expansion of this landfill within Township 33N, Range 27W, Sections 29 and 30 (Menominee Township) is consistent with the Menominee County Solid Waste Plan.

Waste Management's Michigan Environs landfill: Any further expansion of this landfill in Township 32N, Range 27W, Sections 3, 4, 8, 9 and 10 (Menominee Township) is consistent with the Menominee County Solid Waste Plan. This consistency is limited to the property presently owned by Waste Management, as described in Appendix D.

HMSH, Inc. Type III landfill: Construction of this facility in Township 32N, Range 27W, Section 16 (Menominee Township) is consistent with the Menominee County Solid Waste Plan. Any further expansions within the T32N, R27W, Section 16 is consistent with the Menominee County Solid Waste Plan.

SITING OF NEW OR EXPANDED SOLID WASTE FACILITIES

The County has demonstrated there is presently at least ten years disposal capacity.

The Solid Waste Planning Committee is responsible for reviewing proposals from proponents of new or expanded facilities and for making a determination of "consistency with the Solid Waste Plan." The Planning Committee shall use the following information, criteria and process when reviewing proposals and determining consistency.

Information Required:

1. The developer shall indicate what the proposed facility is, i.e., Type II Landfill, Type III Landfill, transfer station, or processing facility.

2. The developer shall provide documentation demonstrating
 - a) The source of the waste stream, quantified by point of origin that will come to the facility.
 - b) The needs of the service area and how they will be met by the proposed development, including proposed recycling services.

3. The developer shall provide information and details about the facility in the form of:
 - a) Engineering reports and draft plans specific to the proposed site including a map of the site with the following requirements:
 - i) A scale of not more than one inch equals 100 feet
 - ii) Date, north point, and scale
 - iii) Dimensions of all lot and property lines for the subject property and all adjacent parcels.
 - iv) Location of all existing structures on the subject property
 - v) Location of all existing access roads
 - vi) Location and right-of-way widths of all roads within one mile
 - vii) Proposed boundaries of solid waste disposal areas
 - viii) Locations of all residential dwelling within a one mile radius of the site
 - ix) Location of all public and private water supplies within a one mile radius of the site
 - x) Proposed truck route to and from the facility using "all-season roads".
An "all-season road" is defined as a route that can carry trucks of maximum allowable weights at all times of the year and not be subject to seasonal weight restrictions

 - b) A separate map indicating the distance of the active work area of the proposed new facility from the following water bodies:
 - i) Lake Michigan
 - ii) Big Cedar River
 - iii) Shakey Lakes
 - iv) Menominee River
 - v) Little Cedar River

4. The developer shall include as part of the engineering plans a draft report, documentation of existing hydrogeological data, i.e., existing well logs, existing groundwater flow data of

the proposed area demonstrating probable compliance with statutory requirements. The engineer shall include, as part of the engineering plans and draft report, a statement verifying that existing data indicate probable compliance with statutory requirements and all monitoring wells will be capped in compliance with applicable federal, state and local regulations.

5. The developer shall provide a written and signed statement from a licensed professional engineer that the proposed development is consistent with proven technologies and with all statutory changes to and requirements of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act 1994 PA 451, as amended (NEPA).
6. The developer shall provide documentation of the financial capability and resources to undertake the project. This documentation shall be in the form of a statement from a financial institution or certified public accountant. This statement shall include the estimated total cost of the project.
7. The developer shall provide a written and signed statement agreeing to charge equitable and similar fees within the service area.
8. The developer shall provide a written and signed statement agreeing to treat all haulers equitably and impartially.
9. The developer shall provide a written and signed statement indicating the facility will provide disposal capacity for municipal solid waste generated in Menominee County for a minimum of ten years.
10. The developer shall provide written documentation that the proposed location of the facility is:
 - a) Not located in a designated historic or archaeological area as defined by the State Historic Preservation Office.
 - b) Not located within the isolation distance of a groundwater recharge area unless approved by the Michigan Department of Environmental Quality or in a wellhead protection area as approved by the Michigan Department of Environmental Quality.
 - c) Not located in an area as defined in Section 32301 of Part 323, Shorelands Protection and Management, of Act 451, or in areas of unique habitat as defined

by the Department of Natural Resources, Natural Features Inventory.

- d) Not located on lands enrolled under Part 361, Farmland and Open Space Preservation, of Act 451.
- e) Located a minimum of 10,000 feet from a runway of an airport used by turbo jet aircraft, or a minimum of 5,000 feet from a runway of an airport used by only piston type aircraft, licensed by the Michigan Aeronautics Commission existing at the time the developer applies to the County for a determination of consistency. (This requirement is only for a landfill proposal.)

11. The developer shall provide written documentation from the Menominee County Road Commission or local road jurisdiction that the proposed facility will be directly accessible onto a public all-season road. An "all-season road" is defined as a route that can carry trucks of maximum allowable weights at all times of the year and not be subject to seasonal weight restrictions.

If access is not onto an all-season road, the developer has the option of agreeing to cover the costs of reconstructing the road to all-season standards of the Menominee County Road Commission or local road jurisdiction. Such work will be done at the sole expense of the developer, unless other arrangements are agreed upon by the developer and the appropriate road jurisdiction.

12. The location of the facility indicated on the map titled "Area Not Permitted for New Landfills in Menominee County".

13. If the proposed landfill or transfer station will be located within the city of Menominee, the developer shall provide documentation as to the specific zoning district it will be located in.

14. For informational purposes only, the developer should provide information on the existing and proposed permitted capacity of the facility and the potential for future expansion.

Siting Criteria

The following criteria will be used to evaluate the information provided by the developer and to determine if the proposed facility expansion or new Type II landfill, Type III landfill, transfer station or processing facility is, or is not, consistent with the approved Update of the Menominee County Solid Waste Management Plan. If all of the criteria are answered "yes",



RETURN TO
APPROVAL
LETTER

RETURN TO
APPROVAL
LETTER

COMMITTEE CHECKLIST TO DETERMINE CONSISTENCY

		YES	NO
1.	<p>MAXIMUM NUMBER OF OPERATING SANITARY LANDFILLS</p> <p>If the developer is proposing a Type II landfill, does Menominee County currently have less than two licensed Type II solid waste landfills located in Menominee County? (This criteria does not apply if Menominee County has less than 66 months of capacity.</p>	_____	_____
2.	<p>WASTE STREAM/SERVICE NEEDS</p> <p>a. The developer has provided documentation demonstrating the waste stream to the facility is authorized by the plan.</p> <p>b. The developer has described the needs of the service area and how the proposed development will address them, including proposed recycling services.</p>	<p></p> <p>_____</p> <p></p>	_____
3.	<p>MINIMUM ISOLATION DISTANCES</p> <p>a. Will the active work area for a new disposal facility or the expansion of an existing disposal facility be located a minimum of 500 feet from the adjacent property lines, road rights-of-way, or lakes or perennial streams, or not closer than 1,000 feet from domiciles existing at the time a developer applies to the county for a determination of consistency?</p> <p>b. Will the active work area of the proposed new facility be located a minimum of 5,000 feet from the ordinary high water mark of: Lake Michigan, Big Cedar River, Shakey Lakes, Menominee River or Little Cedar River?</p>	_____	_____
4.	<p>HYDROGEOLOGICAL DATA</p> <p>Did the engineer include, as part of the signed engineering reports and draft plans, a statement that the existing hydrogeological data indicate probable compliance with statutory requirements and all monitoring wells will be capped in compliance with applicable federal, state or local regulations?</p>	_____	_____

5.	COMPLIANCE WITH PART 115 Did the written and signed statement from the licensed professional engineer indicate the proposed development is consistent with proven technologies and with all statutory changes to requirements of Part 115 of NEPA?	—	—
6	FINANCIAL CAPABILITY Has the developer provided a written and signed statement from a financial institution or certified public accountant indicating the developer's financial capability and resources to undertake the proposed project? Was an estimate of the total project cost included with the statement?	—	—
7.	EQUITABLE AND SIMILAR FEES Has the developer provided a written and signed statement agreeing to charge equitable and similar fees within the service area authorized by this Plan?	—	—
8.	EQUITABLE AND IMPARTIAL TREATMENT OF HAULERS Has the developer provided a written and signed statement agreeing to treat all haulers equitably and impartially?	—	—
9.	LANDFILL CAPACITY Did the developer provide a written and signed statement that he/she will provide ten year disposal capacity for the waste generated in Menominee County? (Industrial Type III landfills, developed for the sole use of the industry, are not required to provide 10 years of capacity for the County.)	—	—
10.	LOCATION		
a.	The facility will not be located in a designated historic or archaeological area defined by the State Historic Preservation Office?	—	—
b.	The facility will not be located within the isolation distance of a of a groundwater recharge unless approved by the Michigan Department of Environmental Quality or in a wellhead protection area as approved by the Michigan Department of Environmental Quality?	—	—

<p>c.</p> <p>d.</p> <p>e.</p>	<p>The facility will not be located in an area as defined in Section 32301 of Part 323, Shorelands Protection and Management, of Act 451, or in areas of unique habitat as defined by the Department of Natural Resources, Natural Features Inventory?</p> <p>The facility will not be constructed on lands enrolled under Part 361, Farmland and Open Space Preservation, of Act 451?</p> <p>The landfill will not be constructed a minimum of 10,000 feet of a runway used by turbo jet aircraft or 5000 feet from a runway of an airport used by only piston type aircraft, of an airport licensed by the Michigan Aeronautics Commission existing at the time a developer applies to the county for a determination of consistency? (Other facilities are not applicable.)</p>	<p>_____</p> <p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p> <p>_____</p>
<p>11.</p>	<p>ROAD ACCESS</p> <p>Will the facility be accessible directly onto a public all-season road? An "all-season road" is defined as a route that can carry trucks of maximum allowable weights at all times of the year and not be subject to seasonal weight restrictions.</p> <p>If access is not onto an all-season road, has the developer agreed to cover the costs of reconstructing the road to all-season standards of the Menominee County Road Commission or local road jurisdiction, unless other arrangements have been agreed upon by the developer and the appropriate road jurisdiction?</p>	<p>_____</p> <p>_____</p>	<p>_____</p> <p>_____</p>
<p>12.</p>	<p>SPECIFIC LOCATION </p> <p>Will the location of the proposed landfill be located other than in Menominee Township? (See attached map)</p> <p>If the Facility is proposed to be constructed within the city</p>	<p>_____</p>	<p>_____</p>

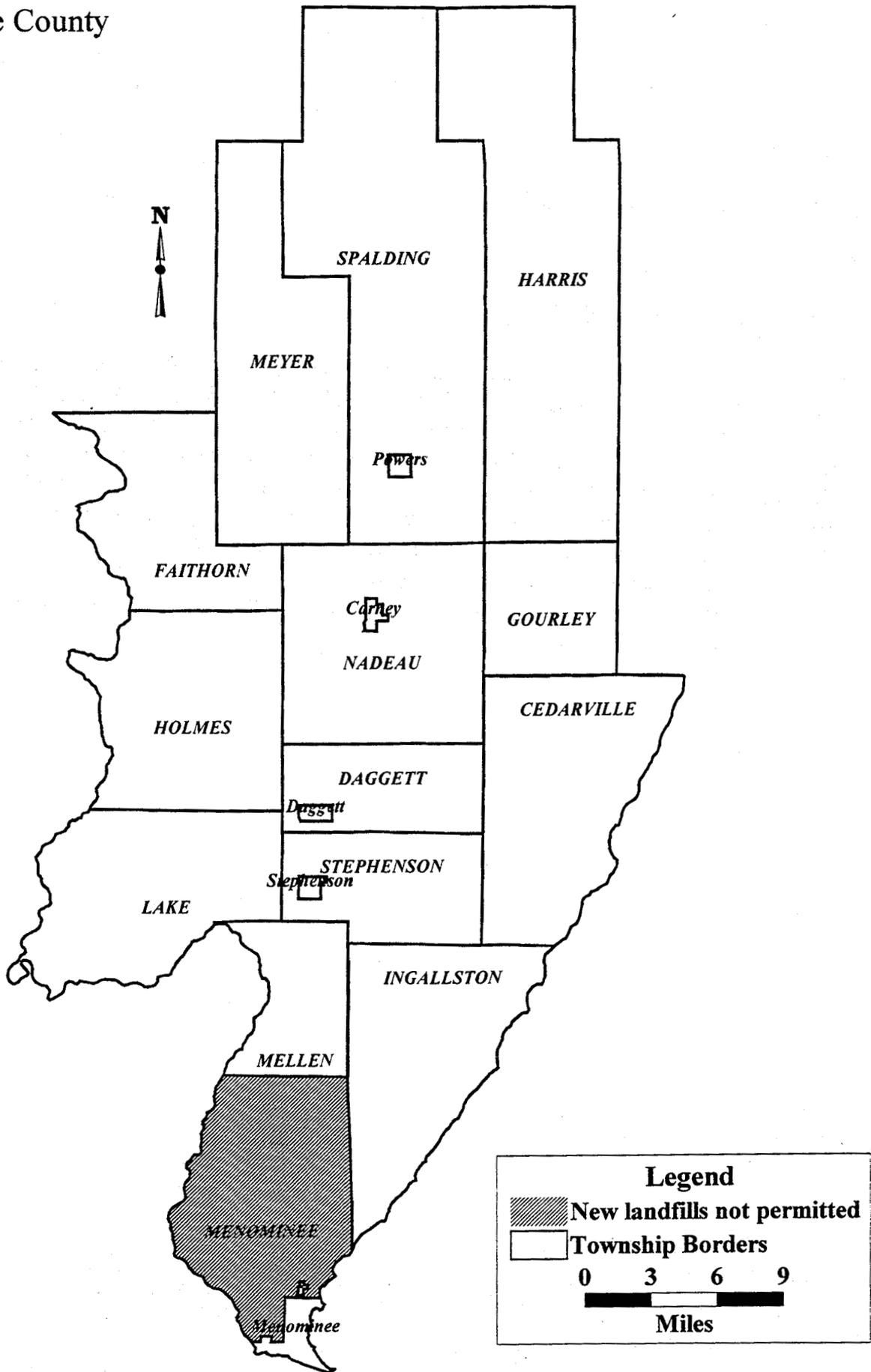
	limits of Menominee, is the location presently zoned as M-1 Industrial?		
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Review Process

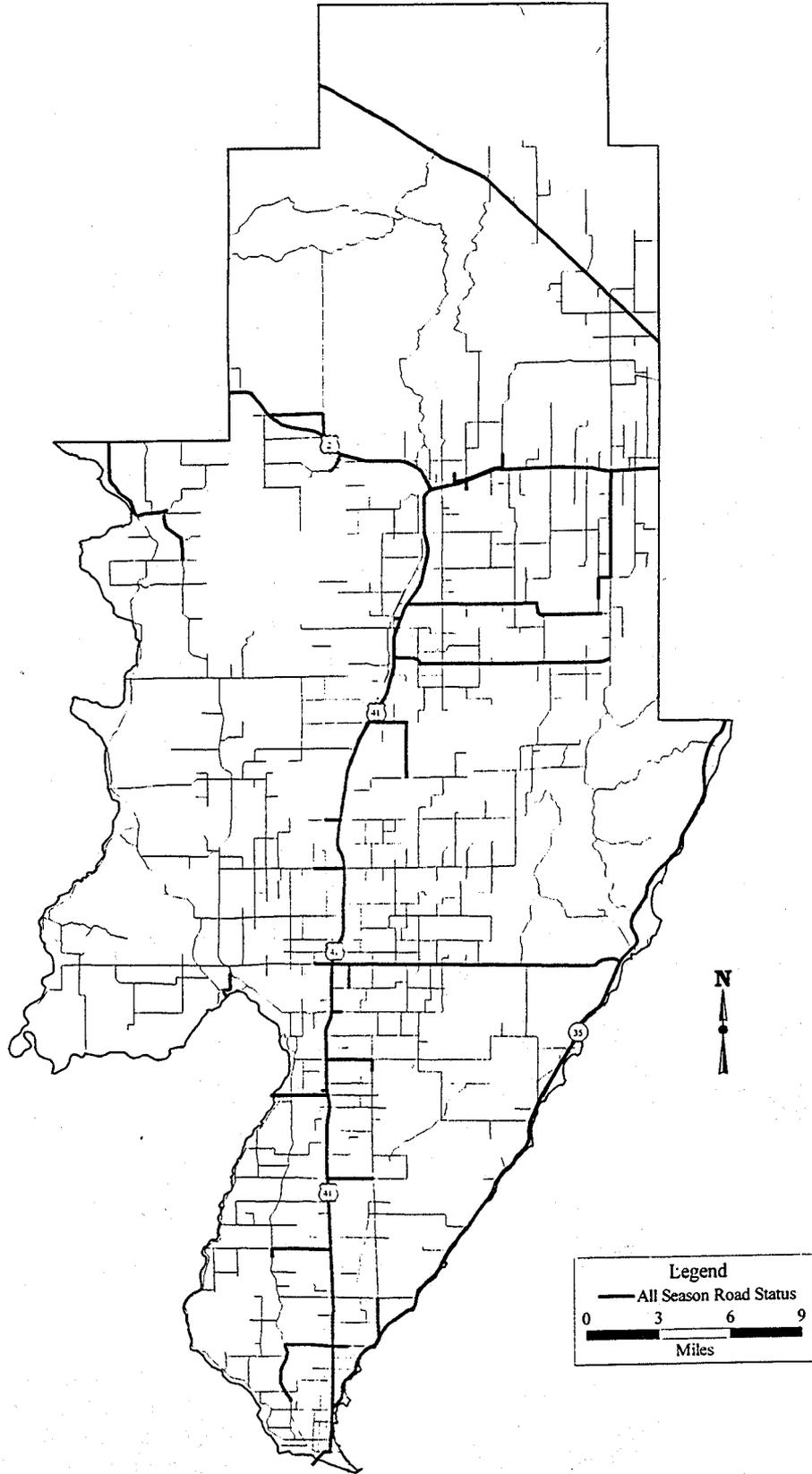
Committee Determination of Consistency

The developer shall provide a written request for “consistency with the solid waste plan”, along with the required information to the Designated Planning Agency. Within 90 days of receipt of the written request and the required information, the Solid Waste Planning Committee will convene to determine if the proposed development is, or is not, consistent with the Menominee County Solid Waste Management Plan. The Committee must provide to the developer a written determination of consistency or inconsistency and include the reasons and facts supporting their decision. If the Committee fails to make a determination within the 90 days, the proposal shall be consistent with the Menominee County Solid Waste Management Plan. Final determination of consistency shall be made by the director of the Department of Environmental Quality upon receipt of a construction permit application.

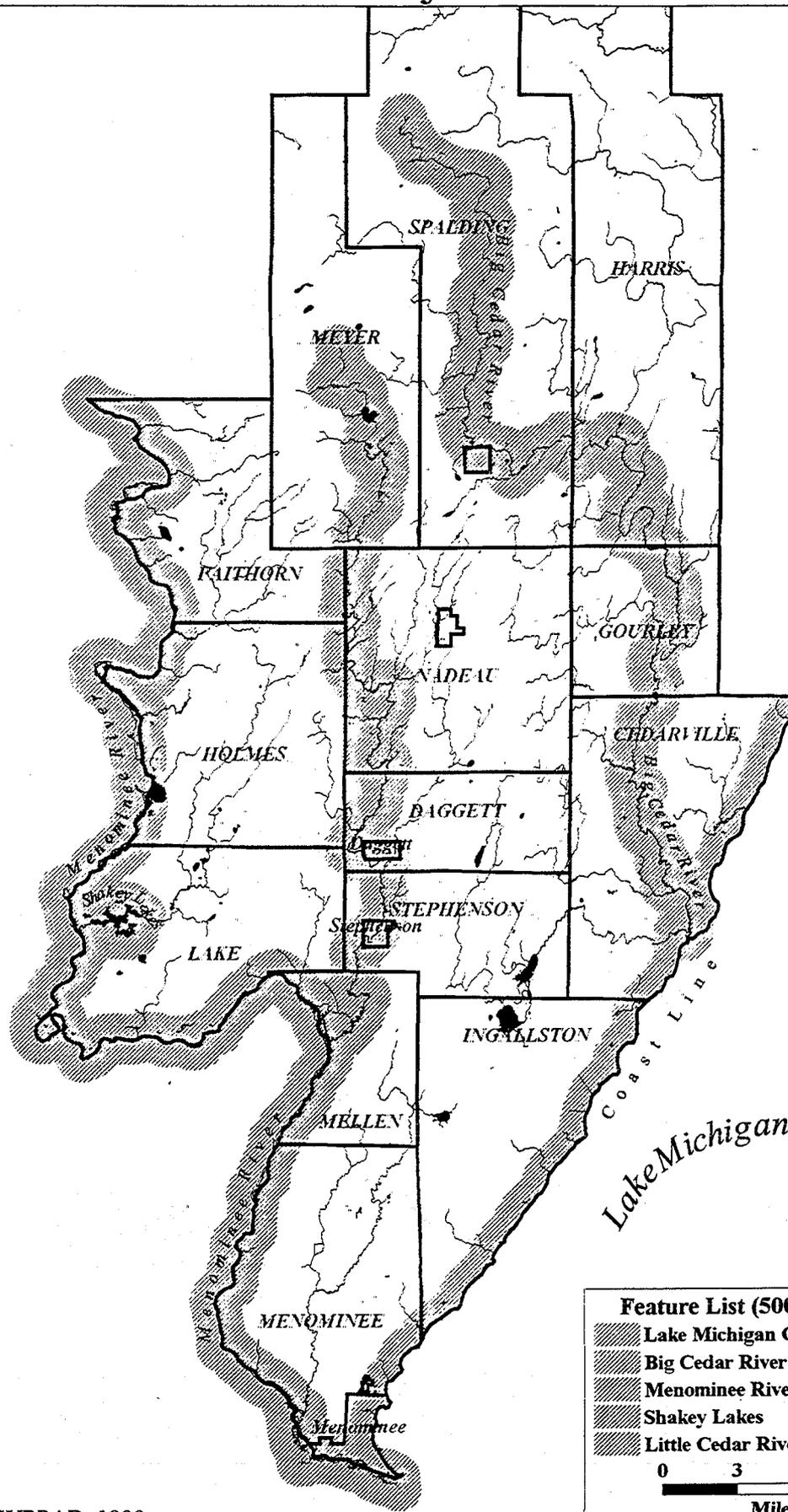
Area Not Permitted for New Landfills In Menominee County



Menominee County Roads



Areas Not Permitted For New Landfills In Menominee County Per Isolation Distance From Major Water Bodies



Compiled By: CUPPAD, 1999

Appeal Process - To the Menominee County Board of Commissioners

If, and only if, a proposed development is found to be inconsistent with the Menominee County Solid Waste Management Plan by the Solid Waste Planning Committee, an appeal by the developer may be made to the Menominee County Board of Commissioners. The appeal hearing between the developer and the County Board of Commissioners must be held within 90 days of receipt of the request by the County Board Chairperson.

The appeal process before the County Board of Commissioners shall be identical to the Solid Waste Planning Committee review process in terms of information considered and criteria used to determine consistency. The developer, however, may provide additional information to the Board.

Within 30 days of the appeal hearing, the County Board of Commissioners must provide a written determination of consistency or inconsistency to the developer. This determination must include the reasons and facts supporting their decision. If the County Board of Commissioners upholds the determination of inconsistency rendered by the Planning Committee, the developer may address the deficiencies identified by the Board of Commissioners and the Solid Waste Planning Committee and resubmit the project proposal to the Solid Waste Planning Committee for subsequent review for consistency.

If the County Board of Commissioners fails to make a determination within 30 days of the appeal hearing, the proposal shall be consistent with the Menominee County Solid Waste Management Plan.

If the County Board of Commissioners fails to act upon the request within 90 days of receiving the request, the proposal shall be considered to be consistent with the Menominee County Solid Waste Management Plan.

Final determination of consistency shall be made by the Director of the Department of Environmental Quality upon receipt of a construction permit application.

SELECTED SYSTEM

SOLID WASTE MANAGEMENT COMPONENTS³⁷

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

Resource Recovery Program:

- The recycling and/or yard waste drop-off service offered by the City of Menominee, Menominee-Ingallston Transfer Station, Great American Disposal transfer stations, and at the Waste Management's Michigan Environs Landfill should continue to divert materials from the waste stream and save landfill air space. Efforts should be made to expand upon and increase recycling opportunities in the county.

Hazardous Waste Collection:

- County residents can voluntarily use the Upper Peninsula Pesticide Waste Collection Program, offered at the Delta Landfill, Escanaba, for disposal of herbicides and pesticides.
- The County Board should consider a household hazardous waste collection program if funding for the program is available.

Collection Process:

- Local units of government will retain the right to collect solid waste within their jurisdictions, contract with private haulers or allow the private sector to provide the service. Private haulers will continue to provide waste collection services.
- The method of funding for waste collection by local governmental units will be at their discretion.

Landfilling:

- Operational and construction costs of all landfills and other waste processing facilities in the county is the responsibility of the owner/operator.

Education/Public Awareness

- The on-going education of the public concerning proper waste disposal options and methods and recycling/composting guidelines is important. Many agencies and organizations including, Michigan State University (MSU) Extension and local schools should contribute curriculum support and be a resource for education and public awareness efforts. Waste haulers should be encouraged to publicize and encourage recycling by their customers.
Education and public awareness efforts should be directed at:
 - promoting and educating the public on proper recycling methods.
 - promoting the composting site.

³⁷ Components or subcomponents may be added to this table.

SELECTED SYSTEM

promoting the disposal of wastes in a safe and environmentally conscientious manner.

Enforcement Provisions:

- The Menominee County Board of Commissioners will be responsible for enforcement of the provisions of the County Solid Waste Management Plan.

Designated Planning Agency/Solid Waste Planning Committee

- The CUPPAD Regional Commission will continue as the Designated Planning Agency for Menominee County. Letters of consistency for facilities or programs within Menominee County, which are not subject to siting criteria, shall be issued by the CUPPAD Regional Commission, with copies provided to members of the solid waste planning committee.
- The Menominee County Board of Commissioners will be responsible for appointing the solid waste planning committee to carry out the solid waste planning activities, as authorized by Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). Letters of consistency for new or expanded solid waste facilities subject to siting criteria shall be issued by the Planning Committee.

IDENTIFICATION OF RESPONSIBLE PARTIES

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

Resource Conservation: No Programs

Source or Waste Reduction - N/A

Product Reuse - N/A

Reduced Material Volume - N/A

Increased Product Lifetime - N/A

Decreased Consumption - N/A

Resource Recovery Programs:

Composting - N/A

Recycling - N/A

Energy Production - N/A

Volume Reduction Techniques:

N/A

Collection Processes:

N/A

Transportation:

N/A

Disposal Areas:

Processing Plants - N/A

Incineration - N/A

Transfer Stations - N/A

Landfills - N/A

Ultimate Disposal Area Uses: N/A

Local Responsibility for Plan Update Monitoring & Enforcement:

Solid Waste Planning Committee and County Board of Commissioners
CUPAPD Regional Commission - Designated Planning Agency

Educational and Information Programs:

N/A

LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

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

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

N/A

2. This Plan recognizes and incorporates as enforceable the following specific provisions based on existing zoning ordinances: N/A

A. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

B. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

SELECTED SYSTEM

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

Solid waste collection programs.

Franchise agreements for collection, disposal, transfer or processing of solid waste.

Vehicle licensing fees or regulations.

Waste reduction initiatives.

Construction debris/demolition material reduction or processing programs. 

Yard waste reduction and composting programs.

Local Units of Government:

Menominee County

Daggett Village

Faithorn Township

Harris Township

Ingallston Township

Mellen Township

Menominee Township

Carney Village

Powers Village

Stephenson Township

Cedarville Township

Daggett Township

Gourley Township

Holmes Township

Lake Township

City of Menominee

Meyer Township

Nadeau Township

Spalding Township

City of Stephenson

RETURN TO
APPROVAL
LETTER

CAPACITY CERTIFICATIONS

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

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

The total quantity of waste needing disposal per year is 53,500 tons approximate. Waste Management's Michigan Environ's Landfill has indicated on Page III-11 that with yearly disposal volume of 275,000 tons, there is a 19 year life at the landfill.

APPENDIX

ADDITIONAL INFORMATION

REGARDING THE

SELECTED

SYSTEM

EVALUATION OF RECYCLING

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

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:

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

MATERIALS	MATERIALS GENERATED	MATERIAL ESTIMATED FOR POSSIBLE RECOVERY
Paper and Paperboard	20,822 tons	379 tons
Glass	3,293 tons	95 tons
Metals		
Ferrous	2,974 tons	76 tons
Aluminum	743 tons	7 tons
Plastics	4,833 tons	17 tons
Total Other Wastes	32,665 tons	562 tons

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

Equipment Selection

Existing Programs:

Recycling

The City of Menominee provides, for city residents only, a location for dropping off recyclable materials, which was funded by a \$28,000 grant from the Clean Michigan Fund in 1989. The drop-off point is located behind the Michigan National Guard facility, 2515 10th Street. In 1995, the drop-off site was moved from a location behind City Hall because lack of space for recycling bins and boxes. The City's recycle drop-off point has bins for cans (aluminum,

steel, and tin), glass (green, brown, and clear), #1 PET and #2 HDPE plastic (laundry detergent bottles; milk, water, and cider jugs), paper, and cardboard. A baler is used to compact the collect newsprint and cardboard.

Composting

Organic materials are dropped off by City residents into bins behind the street department warehouse. This material is hauled off by a local trucking firm.

Proposed Programs:

Site Availability & Selection

Existing Programs: N/A

Proposed Programs: N/A

Composting Operating Parameters:

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

Existing Programs:

<u>Program Name:</u> <u>Unit</u>	<u>pH Range</u>	<u>Heat Range</u>	<u>Other Parameter</u>	<u>Measurement</u>
N/A	---	---	---	---
---	---	---	---	---

Proposed Programs:

<u>Program Name</u> <u>Unit</u>	<u>pH Range</u>	<u>Heat Range</u>	<u>Other Parameter</u>	<u>Measurement</u>
N/A	---	---	---	-----
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COORDINATION EFFORTS:

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

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

Ultimate responsibility for implementing the Solid Waste Plan rests with the Menominee County Board of Commissioners as part of its duties of general governance.

The Board of Commissioners has charged the County Planning Commission be cognizant of any pertinent ordinances, approved land use plans or wellhead protection plans within the county, and any pertinent restrictions or ongoing commitments contained in plans for air quality, water quality or waste management which may be required to meet state or federal standards.

The Board of Commissioners has requested the Delta-Menominee District Health Department be cognizant of any pertinent ordinance or approved wellhead protection plans within the County, and any pertinent restrictions or ongoing commitments contained in plans for air quality, water quality or waste management which may be required to meet state or federal standards.

The Board of Commissioners has requested that the Menominee County Solid Waste Management Planning Committee be cognizant of any pertinent ordinances and any pertinent restrictions and ongoing commitment contained in waste management plans of other counties.

Any county-level decisions affecting current or anticipated programs for solid waste management, air quality, water quality or land use planning may be made after consultation and

recommendations from the county planning commission, district health department and/or county solid waste planning committee.

COSTS & FUNDING:

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

System Component¹	Estimated Costs	Potential Funding Sources
<u>Resource Conservation Efforts</u>	N/A	
<u>Resource Recovery Programs</u>	N/A	Customer charges, millage, extra fees
<u>Volume Reduction Techniques</u>	N/A	
<u>Collection Processes</u>	N/A	Customer
<u>Transportation</u>	N/A	Customer
<u>Disposal Areas</u>	N/A	Customer
<u>Future Disposal Area Uses</u>	N/A	
<u>Management Arrangements</u>	N/A	
Educational & Informational	N/A	Taxes, fees, private sector

EVALUATION SUMMARY OF THE SELECTED SYSTEM:

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

The selected system is a continuation of the collection and disposal system in place at present.

For the most part, the private sector has provided solid waste services to the county. The City of Menominee and Ingallston and Menominee Townships provide collection service, curbside pick-up and transfer station, respectively. This private and public arrangement is not likely to change in the near future. The private sector has a considerable investment in solid waste system.

Other alternatives proposed in the Plan have at one time or another been deliberated at various meetings. The conclusions were they would not be appropriate for Menominee County.

The present recycling program offered by the City of Menominee was funded through a state grant. Recycling programs in the county are a way of reducing the amount of waste needed to be landfilled.

The annual household hazardous waste collection program, while successful in the county, was eliminated due to funding considerations. Should funding become available, the program should be reinstated.

ADVANTAGES AND DISADVANTAGES OF THE SELECTED SYSTEM:

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

Advantages:

1. There is sufficient capacity for waste disposal at the Waste Management's Michigan Environs Landfill for disposal of Menominee County waste for a ten year period.
2. The present waste hauling firms have the infrastructure to continue with the collection and transportation of wastes to a landfill for disposal.
3. To remain in a competitive position, local industries need low cost disposal options, as those offered by the local landfill.
4. The recycling and composting programs will continue to divert materials away from the waste stream, thus extending the life of landfills.
5. Waste generated by Great Lakes Pulp Company can be economically disposed of at their own disposal site.
6. Pesticide collection programs available at the Delta County Landfill will provide for disposal in an environmentally safe manner.

Disadvantages:

1. The present voluntary recycling program does not result in 100% participation of the public. The lack of large quantities of materials and insufficient markets creates problems for the program.
2. The composting program is a "passive composting" program.

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.

PUBLIC PARTICIPATION

SYSTEM COMPONENTS: Alternative #1 Out-of-County Landfilling

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

RESOURCE CONSERVATIONS EFFORTS:

Programs of this sort would be most successfully implemented on a State or National level. Opportunities for reuse such as bringing grocery bags back to the store on the next trip are practiced on a small scale.

VOLUME REDUCTION TECHNIQUES:

Compaction processes would be employed at transfer stations.

RESOURCE RECOVERY PROGRAMS:

Recycling programs that are currently voluntary may have to be mandatory to reduce the amount of waste brought to distant landfills for disposal.

COLLECTION PROCESSES:

Collection could still be performed by public or private entities.

TRANSPORTATION:

Wastes collected would be transported to a transfer station and then hauled to a distant landfill.

DISPOSAL AREAS:

All landfills would cease to exist in the County. No new landfills would be constructed in the County. Disposal areas would be located in Wisconsin or adjacent/nearby counties.

INSTITUTIONAL ARRANGEMENTS:

Agreements with other counties and /or landfills would be necessary to assure disposal options.

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Greater emphasis on source separation, reuse, and recycling would be necessary to make the waste stream more compatible with large scale transfer of waste.

EVALUATION SUMMARY OF NON-SELECTEDS SYTEM:

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.

Human Health – There would be no negative impacts to the environment as a result of new landfills. Existing landfills would be closed and capped which will minimize contamination to the groundwater.

Economics – New investment would be needed to implement this alternative.

Environmental – No landfills would be constructed in the County and existing ones properly closed.

Transportation – There will be increased transportation costs associated with hauling all the waste to landfills located outside of Menominee County.

Siting – *Locating transfer stations may be a concern.*

Energy Resource – N/A

Technical Feasibility – Many counties do not have a landfill within the county and export the waste to another county or state.

Public Support – There is some support for eliminating landfills within the county. However, there is support for maintaining a landfill in the county to assure disposal options for both residential and commercial/industrial needs.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

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

Alternative #1 – Out-of-County Landfilling

ADVANTAGES:

1. No landfills will be constructed.
2. Enhanced participation in recycling.
3. Enhanced opportunity for waste control.

DISADVANTAGES:

1. Lack of adequate disposal opportunities for new and existing businesses may be detrimental to the economic well-being of the area.
2. Increased transportation costs.
3. New investment needed for transfer process.
4. Existing landfills would be abandoned.
5. Long-term disposal agreements need to be negotiated.

SYSTEM COMPONENTS: Alternative #2 Waste to Energy Facility

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

RESOURCE CONSERVATION EFFORTS:

Programs of this sort would be most successfully implemented on a State or National level. Opportunities for reuse such as bringing grocery bags back to the store on the next trip are practiced on a small scale.

VOLUME REDUCTION TECHNIQUES:

Combustibles would be eliminated from the waste stream. The only materials requiring landfilling would be incinerator ash and non-combustibles.

RESOURCE RECOVERY PROGRAMS:

Sorting of waste into combustible/non-combustible materials would provide an opportunity to perform a much more intensive recycling and household hazardous waste program.

COLLECTION PROCESSES:

Collection could still be performed by public or private entities. Separation of combustible/non-combustible material will complicate collection.

TRANSPORTATION:

Keeping combustible/non-combustible material separate will potentially increase transportation costs. Siting of the incinerator (near an energy market) would have an impact based on location.

DISPOSAL AREAS:

Processing centers, which currently do not exist in the County, would be necessary to sort materials. Existing transfer stations will require modification to keep materials separated. Less landfill space will be required.

INSTITUTIONAL ARRANGEMENTS:

Agreements with other counties may be necessary to assure sufficient volumes for operation.

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Greater emphasis on source separation, reuse, and recycling would be necessary to make the waste stream more compatible with incineration.

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

Costs associated with waste to energy facility would be incurred for land acquisition, facility construction, and processing facility construction. Ongoing costs for waste separation. Some disposal will still be required.

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.

Human Health - There may be additional health risks associated with more extensive waste handling to accomplish the amount of sorting necessary for this alternative.

Michigan has strict regulations related to air emissions. The emissions created by the proposed waste to energy system will exceed those resulting from traditional power generation techniques.

Economics - A small waste to energy facility (30 tons/day) can cost nearly \$3 million to construct. Menominee County generates approximately 146 tons per day and it is assumed that a larger scale facility will be more expensive. Land acquisition will be another component of start-up costs as a site near an "energy market" will be needed. There will also be costs associated with making the necessary connections to the consumer in order to utilize energy produced. Increased handling/sorting of material will be expensive.

Some cost recovery will result from the sale of energy.

Environmental - The smaller amount of material requiring final disposal (at the landfill) will result in a smaller landfill being required and less "greenfield" being impacted by the facility.

Popularity of waste to energy facilities is limited because of difficulties in complying with air emission standards.

There is concern over the higher toxicity of ash resulting from waste combustion being buried in the landfill.

Transportation - Impacts on transportation are difficult to assess. Location of the facility will be based on the energy market which is developed.

Siting - Locating a suitable place is a concern.

Energy Resources - A waste to energy facility would tap a fuel source currently not used for energy production and preserve other fuels for the future.

Technical Feasibility - Modular facilities, sized to accommodate the amount of waste generated in the County and in compliance with emission standards are available.

Public Support - There has always been some level of support for deriving benefit from solid waste, if possible, rather than just burying it in the landfill. A waste to energy facility would be a means of accomplishing this.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

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

Alternative #2 - Incineration

ADVANTAGES:

1. Small volume of residuals requiring landfilling.
2. Enhanced participation in recycling.
3. Production of energy from resource that would have been buried.
4. Enhanced opportunity for hazardous waste control.

DISADVANTAGES:

1. Compliance with Michigan Air Quality Standards is difficult and expensive to achieve.
2. Construction and ongoing operational costs of an incinerator are greater than construction and operation of a landfill.
3. Waste volume generated in Menominee County may not be sufficient for economic operation of an incinerator.

PUBLIC PARTICIPATION AND APPROVAL

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

PUBLIC PARTICIPATION

PUBLIC INVOLVEMENT PROCESS: A description of the process used, including dates of public meetings, copies of public notices, documentation of approval from solid waste planning committee, County board of commissioners, and municipalities.

Public committee meetings were held:

March 30, 1998
April 13, 1998
May 19, 1998
June 8, 1998
July 13, 1998
August 31, 1998
December 14, 1998
March 24, 1999
August 31, 1999
April 18, 2000
May 23, 2000

At least ten days prior to each Solid Waste Committee meeting, notice and meeting agenda were mailed to committee members, township supervisors, village presidents and city mayors. Notices were posted at the courthouse.

The public was provided at least 30 days notice of the public hearing held on the Plan.

SPORTS

Lactner has been out of the lineup since sustaining a fractured rib April 1 against Chicago. The report said he did not reinjure it in the fight.

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PUBLIC NOTICE
PUBLIC REVIEW COMMENTS
OF MEMONIEE COUNTY SOLID WASTE
MANAGEMENT PLAN

The draft Menominee County Solid Waste Management Plan has been prepared by the County Solid Waste Planning Committee. The Plan outlines the selected solid waste system for Menominee County, controls import and export of wastes between counties and identifies who is responsible for various activities regarding solid waste management. A local review comment period is from April 26, 1999 until July 26, 1999 for acceptance of public comments on the plan. A public hearing will be held for the purpose of receiving additional comments. A notice will be published as to the date, time and place of the Public Hearing. The public may submit comments on the Plan to the Solid Waste Planning Committee, 2415 14th Avenue South, Escanaba, MI until July 26, 1999. Copies of the Plan are available for public review at the County Courthouse in Menominee, Spies Public Library in Menominee, Menominee County Library in Stephenson, Hermansville Community Center in Hermansville or at the CUPPAD Regional Commission, 2415 14th Avenue South, Escanaba. Oral or written comments on the Plan are encouraged.

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MENOMINEE COUNTY SOLID WASTE PLANNING COMMITTEE
MEETING MINUTES

August 31, 1999
7:00 p.m.

Menominee Chamber
Menominee, MI

MEMBERS PRESENT

Anita Doepke
Constance Armbrust
Nancy Douglas
Robert Pliska
Mark Nordin
Mark Erickson
Floyd Berger
Denise Taylor
Mike Erdman
Don Pyle
Sara Lambrecht
Mary Maas

MEMBERS ABSENT

Mark Simon
Fred Reidell

1. The meeting was called to order at 7:07 p.m. by Chairperson N. Douglas. A quorum was present.
2. The agenda was accepted as printed.

MOTION BY M. ERICKSON, SECONDED BY M. ERDMAN TO ACCEPT THE MINUTES OF THE MARCH 24, 1999 MEETING; MOTION CARRIED.

4. PUBLIC HEARING ON THE DRAFT MENOMINEE COUNTY SOLID WASTE PLAN

N. Douglas opened the public hearing. Comments were presented by:

- Attorney Gerald Mason, representing Menominee Township, read a letter requesting that foundry sand from Dickinson County be allowed to be disposed of in Menominee County.
- Dale Pape indicated that a suit has been filed by Menominee Township against Waste Management and United Waste. He is concerned about the acreage permitted in the proposed plan that will be used for expansion of the Waste Management landfill.
- Connie Armbrust requested language in the Plan for non-expansion of the Waste Management landfill and restrictions on vertical or lateral expansions.
- Leo Labre, Spalding Township Supervisor, questioned about exporting Menominee County waste to Delta County for disposal. He would like to see the Plan allow Menominee County waste to go to Delta County for disposal.
- Diane Pape discussed the life site agreement, acceptance of Grede Foundry sand into Menominee County and opposition to further expansion of the Waste Management landfill.

MOTION BY A. DOEPKE, SECONDED BY R. PLISKA TO CLOSE THE PUBLIC HEARING;
MOTION CARRIED.

5. Public Comments: no public comments.
6. Communications were received from the following:
 - Washtenaw County regarding import/export waste authorization
 - Genesee County regarding import/export waste authorization

- Benzie County regarding import/export waste provisions
- Muskegon County regarding import/export provisions
- Menominee County Townships Association
- Dickinson County Solid Waste Management Planning Committee

7. **Old Business:**

A. Discussion on importing Dickinson County waste and exporting Menominee County waste to Delta County. It was the consensus that importing Dickinson County waste will be allowed if Dickinson County amends their plan to allow for importation of Menominee County waste. Nancy Douglas will confirm this with Dickinson County.

B. Discussion on Menominee County Townships Association letter. The siting criteria will be amended. MOTION BY M. ERDMAN, SECONDED BY F. BERGER TO ADD LITTLE CEDAR RIVER TO THE LIST OF WATER BODIES WITH THE 5000 FOOT SETBACK FOR PROPOSED NEW FACILITIES IN CRITERIA #3; MOTION PASSED, WITH ONE NAY. It is the consensus of the Committee that all monitoring wells be properly capped; capping of wells will be included in criteria #4. No action taken on the request for 5000 foot setback from certain lakes, since it was not clear what lakes the Association had in mind; the criteria will be amended at a later date to identify specific lakes. No action taken on requiring that all access roads be all-season status serving a facility. No action taken on adding criteria #13.

C. Reviewed the comment letter on the Plan from the MDEQ. Comments on the Plan will be incorporated into the Solid Waste Plan.

8. **New Business:**

MOTION BY A. DOEPKE, SECONDED BY S. LAMBRECHT TO APPROVE AND RECOMMEND ADOPTION BY THE MENOMINEE COUNTY BOARD OF COMMISSIONERS THE MENOMINEE COUNTY SOLID WASTE PLAN UPDATE WITH THE FOLLOWING CHANGES: RECOMMENDATIONS BY THE MDEQ, ADDING LITTLE CEDAR RIVER TO THE LIST OF WATER BODIES WITH THE 5000 FOOT SETBACK PROVISION, ALLOWING IMPORTATION OF DICKINSON COUNTY WASTE WHEN DICKINSON COUNTY CHANGES THEIR PLAN AND REQUIRE MONITORING WELLS TO BE CAPPED; MOTION CARRIED, WITH ONE NAY.

9. **Public Comment:**

Diane Pape commented that the road is paved with gold to Waste Management.

10. MOTION BY M. ERDMAN, SECONDED BY S. LAMBRECHT TO ADJOURN AT 9:02 P.M., MOTION CARRIED.

Minutes prepared by Peter Van Steen.

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& FOOD FEST
Sunday, March 19th
11:30 a.m. - 6:30 p.m.
Catholic Central Gymnasium
1200 Main St., Marinette
Oral Auction • Raffle • Mini-Raffle
Silent Auctions • Ethnic Foods

1/2 Off Frame

Purchase any complete pair of eye glasses & receive 1/2 off the price of the frame.

Rx required. No other discounts apply. Some third party plans do not apply. See store for details. Offer ends 3/31/00

Kindy Optical Superstore

PINE TREE MALL 732-2101 MARINETTE WI

PUBLIC NOTICE

PUBLIC HEARING ON MENOMINEE COUNTY SOLID WASTE PLAN

The Menominee County Solid Waste Planning Committee is soliciting public comments regarding the county solid waste plan. A **Public Hearing** will be held **April 18, 2000** beginning at **7:00 p.m.** at the **Nadeau Township Hall, 28 County Road 37E, Carney, MI.** The public is encouraged to present their comments and concerns to the Committee. Based on comments and discussions at the meeting, a solid waste plan will be presented to the Menominee County Board of Commissioners for their considerations.

Written comments on the plan can be directed to CUPPAD Regional Commission, 2415 14th Avenue South, Escanaba, MI 49829. Oral and written comments are encouraged.

MENOMINEE COUNTY FEDERAL CREDIT UNION

You can join MCFCU if you **LIVE OR WORK** in the Menominee County Area.
MENOMINEE
2600 10th St. • Menominee, MI
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Cty B, Peshtigo



Michael J. Post, MD
Internal Medicine

"I believe that a physician should care for all aspects of his patients' lives - the emotional and spiritual, as well as the physical."

A NEW Doctor in our Community.

The Marinette Menominee Clinic is pleased to welcome Michael J. Post, MD, a specialist in internal medicine. Dr. Post earned his medical degree from Wayne State University School of Medicine in Detroit, Michigan, and completed his residency at St. John Hospital, also in Detroit. In addition to practicing internal medicine, he also provides special services for drug and alcohol rehabilitation.

Dr. Post enjoys the lifestyle of a small town like Marinette with his wife, their four children and the family's yellow lab. Dr. Post is accepting new patients.

To schedule an appointment with Dr. Post, please call 735-7421.

Most insurance plans accepted.

Marinette Menominee Clinic

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3130 Shore Drive, Marinette, WI 54143

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**MENOMINEE COUNTY SOLID WASTE PLANNING COMMITTEE
MEETING MINUTES**

April 18, 2000
7:00 p.m.

Nadeau Township Hall
Carney, MI

MEMBERS PRESENT

Anita Doepke
Constance Armbrust
Nancy Douglas
Robert Pliska
Mike Erdman
Mary Maas

MEMBERS ABSENT

Fred Reidell
Scott Parrette
Mark Nordin
Mark Erickson
Sara Lambrecht

1. The meeting was called to order at 7:05 p.m. by Chairperson N. Douglas. A quorum was not present. Introductions were made of the committee members present. Even though a quorum was not present, the Public Hearing would still be held. No formal actions could be made, i.e. approvals of the agenda and minutes, election of officers, and action on revising the plan. Another meeting will be scheduled.

2. **PUBLIC HEARING ON THE MENOMINEE COUNTY SOLID WASTE PLAN**
N. Douglas opened the public hearing. Comments were presented by:
 1. Leo Labre questioned why communities were not told previously of the option of revising the plan before submitting it to the DEQ for state approval.

 2. Dorothy Buyarski commented that sand from Grede Foundry be allowed to be disposed of at the Waste Management's Michigan Environs landfill; the Waste Management landfill not be permitted to expand beyond its current permitted 22 cells; and the plan continue with the prohibition of no new landfill construction in Menominee Township.

 3. Mary Mass commented that the Waste Management landfill should not be allowed to expand beyond the specific property description of lands now owned by Waste Management. Mary also questioned why a resolution allowing Grede Sand to be disposed of in Menominee County was not included in the last solid waste plan version.

 4. Leo Labre commented that the plan should permit the free flow of waste from Menominee County to Delta and other Upper Peninsula counties.

 5. Ron Jenkins mentioned there would be problems with approving a solid waste plan that did not permit the free flow of solid waste to other counties.

 6. Connie Armbrust requested language (comments attached) in the Plan that any firm wishing to expand either horizontally or vertically beyond their current licensed capacity must return to the committee for a letter of consistency. She also presented information on the manufacturing of aggregate materials from sludge and glass.

 7. Pete Kleiman mentioned the need for the option of being able to transport northern Menominee County waste to Delta County for disposal; if that was not included the townships would not support the solid waste plan.

 8. Floyd Berger concurred with Pete Kleiman's comments.

 9. Bob Dirkman had comments about the letter of consistency procedure.

Minutes - April 18, 2000 - Page 2

10. Pete Kleiman questioned why there is not a prohibition regarding the construction of any new landfills in the county.
11. Dale Axtell had comments on the lands that a landfill could expand upon.
12. Bob Dirkman felt that the plan should encourage the use of new technology. There was a general discussion of using crushed glass in asphalt.

The Public Hearing was closed by the chair. Another meeting will be held to discuss the comments. It was the consensus the next meeting would be held May 23 at 7:00 p.m. at the Menominee Chamber building. There are three vacancies on the solid waste committee: one representing environmental interests and two representing solid waste industry.

The meeting was adjourned at 7:39 p.m.

Meeting minutes prepared by: Peter Van Steen

MENOMINEE COUNTY SOLID WASTE PLANNING COMMITTEE
MEETING MINUTES

May 23, 2000
7:00 p.m.

Menominee Chamber
Menominee, MI

MEMBERS PRESENT

Connie Armbrust
Nancy Douglas
Mark Erickson
Mary Maas
Mark Nordin
Michael Erdman
Sara Lambrecht
Fred Reidell
Robert Pliska
Scott Parrette
Todd Clausen
Tom Thiry, Jr.

MEMBERS ABSENT

Anita Doepke

1. The meeting was called to order at 7:01 p.m. by Chairperson N. Douglas. A quorum was present. Members were introduced. Two new committee members are Tom Thiry from GAD and Todd Clausen from Great Lakes Pulp and Fibre.
2. The agenda was accepted as printed.
3. It was the consensus of the committee to table the election of Chairman and Vice-Chairman until after the Plan has been approved by the DEQ.
4. MOTION BY M. NORDIN, SECONDED BY M. ERICKSON TO APPROVE THE MINUTES OF THE AUGUST 31, 1999 MEETING AND THE APRIL 18, 2000 PUBLIC HEARING; MOTION CARRIED.
5. Public Comments: Sara Lambrecht proposed a stipulation be added to the solid waste plan siting criteria restricting location of landfills and transfer stations within the city of Menominee.
6. No Communications
7. No Old Business
8. New Business
 - a. Nancy Douglas reviewed the comments made at the April 18, 2000 Public Hearing. The Committee discussed the comments and were appropriate, made changes to the plan

- b. MOTION BY M. MAAS, SECONDED BY M. ERICKSON TO ALLOW FOR THE FREE FLOW OF WASTE IN AND OUT OF MENOMINEE COUNTY AMONG UPPER PENINSULA COUNTIES; MOTION CARRIED.
 - c. MOTION BY C. ARMBRUST, SECONDED BY M. ERICKSON TO REQUIRE ANY EXISTING LANDFILL OR NEW LANDFILL TO REQUEST A LETTER OF CONSISTENCY FROM THE SOLID WASTE PLANNING COMMITTEE FOR ANY EXPANSION (VERTICAL OR HORIZONTAL) BEYOND THE CURRENT NUMBER OF LICENSED CELLS; MOTION FAILED.
 - d. For the next solid waste plan update, the Committee will examine other alternatives of waste disposal. Mark Nordin inquired about the success of recycling efforts in Wisconsin.
 - e. MOTION BY S. LAMBRECHT, SECONDED BY M. MASS THAT PROPOSED LANDFILLS OR TRANSFER STATIONS IN THE CITY OF MENOMINEE MUST BE LOCATED IN AREAS ZONED M-1 (INDUSTRIAL). MOTION CARRIED, WITH M. NORDIN AND S. PARRETTE VOTING NO AND C. ARMBRUST ABSTAINING.
 - f. MOTION BY M. MAAS, SECONDED BY C. ARMBRUST TO INCLUDE THE LEGAL DESCRIPTION AND PROPERTY MAP OF THE WASTE MANAGEMENT- MICHIGAN ENVIRONS LANDFILL TO DELINEATE THE AREA TO BE CONSIDERED CONSISTENT WITH THE COUNTY SOLID WASTE PLAN FOR FUTURE EXPANSIONS; MOTION CARRIED.
 - g. MOTION BY M. NORDIN, SECONDED BY M. ERICKSON TO RECOMMEND ADOPTION BY THE COUNTY BOARD OF THE SOLID WASTE PLAN WITH THE CHANGES MADE; MOTION CARRIED.
 - h. The plan will be an agenda item for the June county board meeting. If approved by the county board, the local governmental units will be asked to take action by September 30. Once 67% of the votes are in, the plan will be sent to the DEQ for state review and approval.
9. Public comment made by Dorothy Buyarski on the description of the lands owned by Waste Management to be included in the solid waste plan.
10. MOTION BY M. NORDIN, SECONDED BY M. MAAS TO ADJOURN AT 7:51 P.M.; MOTION CARRIED.

June 26, 2000

Proceedings of a regular meeting of the Board of Commissioners in and for the County of Menominee and the State of Michigan were held in the gym of the North Central Area High School in the Village of Powers on June 26, 2000.

Chairperson Anderson called the meeting to order at 6:00 P.M. followed by the Pledge of Allegiance.

A call of the roll indicated that the following Commissioners were present/absent:

Present: Coms. Anderson, Berger, Lang, Nordin and Parrette.

Absent: Coms. Gromala and Utke were excused.

Chairperson Anderson called for public comment. Comments were made by:

Jean Meek	Possibility of more meetings at the north end of the County
John Anderson	Questions regarding Public Hearing on the Budget

Moved by Com. Berger, supported by Com. Nordin to approve the agenda with additions. Motion carried, 5-0.

Moved by Com. Lang, supported by Com. Berger to approve the minutes of the May 22 regular board meeting. Motion carried, 5-0.

Moved by Com. Berger, supported by Com. Lang to approve for final reading and adoption of the following policy:

Committee of the Whole meetings will be conducted on the second Monday of each month. The Chairperson of the County Board of Commissioners will call the meeting to order and preside over the following:

Pledge of Allegiance
Roll Call
Public Comment
Approval of Agenda

The next part of this meeting will be chaired by the County Administrator. Should the County Administrator not be able to attend, the Chairperson of The County Board of Commissioners will preside.

Items to be addressed at this meeting will be arranged by the County Administrator. Commissioners, Department Heads or Elected Officials may have items placed on the agenda by submitting a request form available at the County Administrator's office.

Recommendations from the Committee of the Whole will be brought to the next regularly scheduled or special meeting of the Menominee County Board of Commissioners.

Should the Committee of the Whole request additional work on an item be performed by the respective standing committee members, they will follow the direction of the Committee of the Whole in order to present a recommendation for the next regularly scheduled or special meeting of the Menominee County Board of Commissioners. If the Committee of the Whole wishes, an item may be tabled until the next Committee of the Whole meeting.

After agenda items are taken care of, the County Administrator will turn the meeting back over to the Chairperson of the Menominee County Board of Commissioners. The Chairperson will resume the meeting with the following items:

Public Comment
Adjournment

Motion carried, 5-0.

Chairperson Anderson nominated the following for appointments to the CUPPAD Regional Committee:

County Board Member:	Floyd Berger
County Planning Commission Member:	Mike Erdman
Member-at-Large:	Lil Schultz

Nominations died for lack of a motion. Commissioners agreed to take the nominations one at a time.

Moved by Com. Lang, supported by Com. Nordin to approve the nomination of Floyd Berger as the County Board Member to the CUPPAD Regional Commission. Motion carried, 5-0.

2.

C-2k

Moved by Com. Nordin, supported by Com. Lang to approve the nomination of Mike Erdman as the County Planning Commission Member to the CUPPAD Regional Commission. Motion carried, 5-0.

Moved by Com. Berger, supported by Com. Lang to approve Lloyd Benson as the Member-at-Large to the CUPPAD Regional Commission. Motion carried, 3-2. Coms. Anderson and Parrette voted nay.

Moved by Com. Nordin, supported by Com. Parrette to rescind the September 27, 1999 motion approving the Solid Waste Plan Update. Motion was rescinded per legal advice from Prosecuting Attorney Hass. Moved again by Com. Nordin, supported by Com. Berger to rescind the September 27, 1999 motion approving the Solid Waste Plan Update. Motion carried, 5-0.

Moved by Com. Berger, supported by Com. Lang to approve the Menominee County Solid Waste Plan as amended. The Commissioners discussed the matter. Menominee Township Supervisor Maas made a comment. Motion approved, 4-1. Com. Nordin voted nay. (Plan is available for review in the County Clerk's office.)

Moved by Com. Berger, supported by Com. Lang to accept the three higher bids for surplus county vehicles:

<u>Vehicle</u>	<u>VIN #</u>	<u>High Bid</u>	<u>Bidder</u>
1996 Ford Crown Victoria	2FALP71W1TX137397	\$ 580.25	Ralph Hester
1995 Ford Crown Victoria	2FALP71W5TX137399	251.20	Paul Svinicki
1995 Ford Crown Victoria	2FALP 71W5SX158462	5.00	Nina Desjarlais
1992 Ford Crown Victoria	2FACP72W8NX203607	11.50	Larry Pepin
1988 Jeep Station Wagon	1JCMR7810JT147172	1,201.00	Ralph Hester

The two lower bids were struck. Corey Auto will pay \$100.00 each for those two vehicles. Motion carried, 3-2. Coms. Nordin and Parrette voted nay.

Moved by Com. Berger, supported by Com. Lang to approve the CDBG Grant Application. Motion carried, 5-0.

Moved by Com. Berger to approve, for first reading, the following policy for advance payment for travel:

P2000- Advance Payment

Employees may receive an advanced payment for meals prior to traveling on the employer's business. The advancement requires the prior approval of the Department Head and the County Administrator and must be in compliance with the following provisions:

1. The request shall be in writing and received in the County Administrator's office at least five (5) days prior to the requested issuance date.
2. The advance shall be limited to meal expenses and shall be calculated based on the number of days and meals that the employee is out of the area on employer's business.
3. Within five (5) days after the employee's return, all receipts must be turned in with a travel report. All advance funds that are not accounted for with receipts must be turned in at the same time.

Motion failed for lack of support.

Moved by Com. Nordin, supported by Com. Parrette to approve miscellaneous bills paid on May 1 and May 25 in the amount of \$40,957.45. Motion carried, 5-0.

Moved by Com. Nordin, supported by Com. Lang to approve the County's first payment to Michigan Municipal Risk Management Authority in the amount of \$32,715.00 for liability insurance. This shall be deducted from 101-103-867.00 (Other Legislative - Liability Insurance). Motion carried, 5-0.

Moved by Com. Berger, supported by Com. Lang to approve budgeting \$8,000 in the 2000/2001 County Budget for an employee assistance plan through Northpointe. Motion carried, 4-1. Com. Anderson voted nay.

Moved by Com. Nordin, supported by Com. Parrette to approve allowing the Park to raise money through donations, aluminum can collections and donated griddles from Waupaca Foundry and Giddings and Lewis Foundry with money to be earmarked for new playground equipment for the parks. Motion carried, 5-0.

Com. Nordin had to be excused at 6:30 P.M.

The Soil Conservation District made a presentation to the Board explaining their programs and services to the people of Menominee County.

Chairperson Anderson recognized Mr. LeBeau for public comment:

Don LeBeau

Mailings

BAMC Administrator Dave Olson and Board Member Dave Higley gave a report on the rankings of their services, revenue goals and their seven major strategic initiatives. Mr. Olson also addressed the issue of the physicians who are leaving the clinic. Questions from the public:

4.

Frank Dulak

Blood clotting drug

Administrator Hester reported on the Bailey Property Grant – the County needs to agree to be the applicant. (For the West Shore Fishing Museum.) Space needs will be on the agenda for the first Committee of the Whole meeting. Com. Lang raised the question of moving the Courthouse offices in the proposed site with the jail. There was further discussion on this proposal.

Department Head Reports:

Clerk Morrison stated no report.

Treasurer Kass announced receiving a check from the City of Menominee – the TIF district for Great Lakes Pulp & Fibre has now been closed.

George Warnock, Equalization Department, reported on the utility companies suit with local government entities.

Sheriff Unger addressed the Board about the issues of the State Treasurers audit and the County Policies and Procedures.

George Warnock, Equalization Department, reported attending schooling at Sault Ste. Marie.

Mrs. Pat Cheski, Librarian, asked about a policy on statements during Public Comment.

Clerk Morrison asked to give a report. Request was denied by the Chair Anderson.

Chairperson Anderson called for public comment. Comments were made by:

Gary Eichhorn
Frank Dulak

John Kuklinski
John Anderson
Jocque Piatt
Frank Dulak
Connie Armbrust
John Anderson

Money for EAP
Funding new jail, response
on FOIA
Rule 18 of Board Rules
Point of Order
Garbage Sites/Board Policies
County Waste Disposal Sites
Waste Management
FOIA request/Problems with
County Clerk

Clerk Morrison asked to speak; request was denied by the Chair Anderson.

Chairperson Anderson asked for a motion to adjourn. Moved by Com. Berger to adjourn at 7:30 P.M. There was no support.

Moved by Com. Berger, supported by Com. Lang to place miscellaneous Boards, Committee and Commission reports on file. Motion carried, 4-0.

Com. Gromala will give a report concerning the policy on receipts for vouchers to be paid and for petty cash expenditures at the next meeting.

Moved by Com. Berger, supported by Com. Lang to adjourn at 7:32 P.M. Motion carried, 4-0.

Patricia Anderson, Chairperson

Barbara Morrison, County Clerk

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000



BE IT RESOLVED, the Village of Dargatz
 approves/ disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Rohit K...
Clerk / Secretary

7-24-00
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Harris Twp. Bd.

approves/disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Robert Handell

Clerk / Secretary

8-2-00

Date



Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Mellen

approves/disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Nolly M. Philizis
Clerk / Secretary

8-3-2000
Date

Please return the signed and adopted resolution to:

**CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829**

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Nadeau Township Board

approves/disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Becky Schetter
Clerk / Secretary

August 10, 2000
Date

Please return the signed and adopted resolution to:

**CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829**

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Stephenson Township

approves disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Jay Wickstrom, Clerk
Clerk Secretary

8-15-00
Date

Please return the signed and adopted resolution to:

**CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829**

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Spalding Township Board
 approves disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Shelley King, Clerk
Clerk / Secretary

August 23, 2000
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Village of Carney

~~approves/disapproves~~
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

James A. Guard
Clerk / Secretary

8-28-00
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Stephenson City Council

approves disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Judith St. Juliana
Clerk / Secretary

9/7/00

Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Cedarville Township

approves ~~disapproves~~
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Marcella Marcus, Clerk
Clerk / Secretary

9-11-00
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Ingaalston Twp Board

approves disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Kay Keefer
Clerk / Secretary

9-19-2000
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

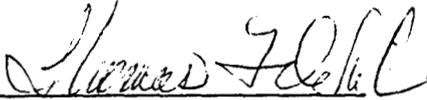
Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Menominee City Council

approves/~~disapproves~~
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.



Clerk / ~~Secretary~~ Thomas F. DeNike

September 21, 2000

Date

Please return the signed and adopted resolution to:

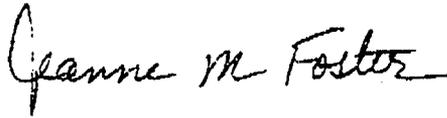
CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

Memorandum

To: Peter VanSledright, CIPDAD
From: Jeanne Foster, Gourley Township Clerk
Date: 10/11/00
Re: Menominee County Solid Waste Management Plan

The Gourley Township Board adopted the Menominee County Solid Waste Management Plan revision dated June 2000 at their regular Board meeting on October 9, 2000.



Jeanne M. Foster, Clerk

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Faithorn Township

approves/disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Barbara G. Roche
Clerk / ~~Secretary~~

Oct. 9, 2000
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Menominee Jwp
approves disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Lana Buyarski
Clerk / Secretary

July 26 2000
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the DAGGETT Township Board

approves/disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Debra Vincent
Clerk / Secretary

Aug 14 - 2000
Date

Please return the signed and adopted resolution to:

**CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829**

Please return the resolution to CUPPAD by September 30, 2000

TOWNSHIP OF HOLMES
Menominee County, Michigan



RESOLUTION: 090600SW

A resolution regarding the Menominee County Solid Waste Plan

Whereas, the wording in the Solid Waste plan is vague with respect to landfill expansion, and a legal agreement to prohibit such expansion, is either lost, or otherwise non-existent, **and**,

Whereas, the controversy surrounding the alleged contaminated, airborne dust coming from the landfill is still ongoing, and attempts to substantiate and resolve this issue, are being avoided, **then**,

Be It Therefore Resolved, that the Board of Trustees of the Township of Holmes, Menominee County Michigan, hereby disapproves and rejects, the Menominee County Solid Waste Plan as presented.

BOARD MEMBERS PRESENT: John T. White Supervisor, Trustee John Kuklinski, Trustee Michael Zemba, Clerk Patricia White, Treasurer Susan Hummel. **ABSENT:** None

Motion to Adopt Resolution #090600 made by Trustee Kuklinski. Supported by Clerk Patricia White.

ROLL CALL VOTE: Ayes: J. White, J. Kuklinski, P. White, M. Zemba, S. Hummel. **NAYS:** None

The Supervisor declared the motion Adopted.

CERTIFICATION:

I, Patricia H. White, Clerk of the Township of Holmes, Menominee County, Michigan, do hereby certify that Holmes Township Resolution #090600, was duly adopted at a regular meeting of the Holmes Township Board, held on Wednesday, September 6, 2000, at the Holmes Township Hall.


Patricia H. White, Clerk
Township of Holmes

Dated: September 6, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Meyer Township Board

approves disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Karen Andlerla
Clerk / Secretary KAREN ANDLERLA



9-11-00
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Disapproves Lake Superior

approves/disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Andrea H. Hensch
Clerk / Secretary

9/13/2000
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

RESOLUTION ON THE ADOPTION OF THE
MENOMINEE COUNTY SOLID WASTE MANAGEMENT PLAN
June 2000

BE IT RESOLVED, the Village of Powers
DISAPPROVES

/disapproves
(select one)

the Menominee County Solid Waste Management Plan June 2000 Update.

Janis Blyden
Clerk / Secretary

Oct 10, 2000
Date

Please return the signed and adopted resolution to:

CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829

Please return the resolution to CUPPAD by September 30, 2000

PUBLIC PARTICIPATION

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

The County Administrator placed notices in the local newspaper requesting interested persons to submit a letter of interest to serve on the Committee. The County received several responses, but not enough for a full 14 member committee. The County Board Chair then contacted other individuals inquiring about their willingness to serve on the Committee. All appointments were approved by the County Board of Commissioners.

PUBLIC PARTICIPATION

PLANNING COMMITTEE - 1998-1999 Committee Members

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

Four representatives of the solid waste management industry:

1. Anita Doepke, HMSH, Inc.
2. Robert Pliska, Waste Mangement, Inc.
3. Don Pyle, Northern Refuse and Great American Disposal
4. Fred Reidell, Reidell Trucking (and Great Lakes Pulp Company)

One representative from an industrial waste generator:

1. Nancy Douglas, Menominee Area Chamber of Commerce

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

1. Mark Erickson, Sierra Club
2. Denise Taylor, Chappee Rapids

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

1. Mark Nordin, Menominee County

One representative from township government:

1. Mary Maas, Menominee Township

One representative from city government:

1. Sara Lambrecht, Menominee City

One representative from the regional solid waste planning agency:

1. Floyd Berger, CUPPAD Regional Commission

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

1. Mike Erdman
2. Constance Armbrust
3. Mark Simon

PUBLIC PARTICIPATION

PLANNING COMMITTEE - 2000-2001 Committee Members

Four representatives of the solid waste management industry:

1. Robert Pliska, Waste Management, Inc.
2. Fred Reidell, Twin City Trucking
3. Tom Thirty, Jr., Great American Disposal
4. Todd Clausen, Great Lakes Pulp & Fibre

One representative from an industrial waste generator:

1. Nancy Douglas, Menominee Area Chamber of Commerce

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

1. Mark Erickson, Sierra Club
2. Vacant

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

1. Mark Nordin, Menominee County

One representative from township government.

1. Mary Maas, Menominee Township

One representative from city government:

1. Sara Lambrecht, Menominee City

One representative from the regional solid waste planning agency:

1. Scott Parrette, Menominee County Board Member

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

1. Mike Erdman
1. Constance Armbrust
2. Anita Doepke

APPENDIX D

Plan Implementation Strategy

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

The selected system is a continuation of the present system in place. Much of what is proposed for the management of solid waste is already in place and operating.

Annual DEQ solid waste landfill reports will be reviewed by the county.

The County will continue to explore other avenues of funding in order to reestablish a household hazardous waste collection program.

The private sector will continue with its role of providing waste collection and disposal for Menominee County.

ATTACHMENTS

Resolutions

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

N/AA

ATTACHMENTS

Listed Capacity

Documentation from landfills that the County has access to their listed capacity.



1229 W. Washington St.
Marquette, MI 49855
Tel: 906-228-4000
Fax: 906-228-4051

WASTE MANAGEMENT

April 7, 1999

- Mr. Peter Van Steen
CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, Michigan 49829

Dear Mr. Van Steen:

This letter serves to notify you of our name change. Our Menominee Landfill is still legally owned by Michigan Environs, Inc., however, Waste Management Inc. now owns Michigan Environs, Inc. As discussed in the Committee meeting, we would like to use Waste Management's Michigan Environs Landfill in the Menominee County Solid Waste Management Plan. As indicated in our March 9, 1998 letter, our landfill has sufficient capacity for a 10 year period of accepting waste from the counties named in the Menominee County Solid Waste Management Plan.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Robert Pliska". The signature is written in a cursive, flowing style.

Robert Pliska, P.E.
Regional Engineer

cc: Kurt Kietzer – Menominee Landfill



**USA WASTE
GREAT LAKES DISTRICT**
A USA WASTE SERVICES COMPANY

W6111 Elmwood Road
P.O. Box 441
Menominee, MI 49858
(906) 863-9009
(906) 863-5766 Fax
(800) 261-9278

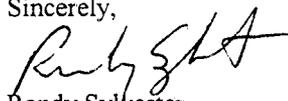
March 9, 1998

Mr. Peter Van Steen
CUPPAD regional Commission
2415 14th Avenue South
Escanaba, Michigan 49629-1197

Mr. Steen:

This letter shall serve as a notice that, United Waste Systems of Menominee, has sufficient capacity for a 10 year period of accepting waste from the counties named in the Menominee County Solid Waste Plan.

Sincerely,


Randy Sylvester
District Manager

WOOD ISLAND Sanitary Landfill

Corporate Office
P.O. Box 2002
Kingsford, MI 49802
906-774-9006



Landfill Office
M-28 East, P.O. Box 165
Wetmore, MI 49894
906-387-2646

March 25, 1998

Mr. Peter Van Steen, Senior Planner
CUPPAD Regional Commission
2415 14th Avenue South
Escanaba, MI 49829-1197

Dear Mr. Van Steen:

This letter is to confirm for your Menominee County solid waste plan, that there is at least ten years capacity for disposal of wastes generated within Menominee County for disposal at Wood Island landfill.

Should you have any questions, please feel free to give me a call.

Sincerely,

A handwritten signature in black ink that reads "Terrance U. Barnes". The signature is written in a cursive, flowing style.

Terrance U. Barnes
Vice President

"Committed To Our Upper Peninsula Environment"

ATTACHMENTS

Map and Property Description

1. Map showing the location of solid waste disposal facilities within the county.
2. Property description of Waste Management's Michigan Environs landfill located in Menominee Township.
3. Map showing the boundaries of Waste Management's Michigan Environs landfill.

PROPERTY DESCRIPTION OF WASTE MANAGEMENT'S MICHIGAN ENVIRONS LANDFILL

LEGAL DESCRIPTION - PARCEL 1:

All that part of Sections 15 and 16 of Township 32 North - Range 27 West, Menominee Township, Menominee County, Michigan, being bounded and described as follows:

Commencing at the Northeast Corner of said Section 16, this being the point of beginning, and run thence $S00^{\circ}32'18''W$, 1347.32 feet to the Northwest Corner of the $SW1/4 - NW1/4$ of said Section 15; thence $S85^{\circ}41'36''E$, 1323.65 feet to the Northeast Corner of said forty; thence $S00^{\circ}23'44''W$, 1324.01 feet to the Southeast Corner of said forty; thence $N86^{\circ}42'30''W$, 1325.62 feet to the East Quarter ($E1/4$) Corner of said Section 16; thence $S00^{\circ}33'40''W$, 1350.28 feet to the Southeast Corner of the $NE1/4 - SE1/4$ of said Section 16; thence $N86^{\circ}57'30''W$, 1421.89 feet to the Southwest Corner of said forty; thence $S00^{\circ}17'00''E$, 1321.45 feet to the Southeast Corner of the $SW1/4 - SE1/4$ of said Section 16; thence $N85^{\circ}44'33''W$, 1404.00 feet to the South Quarter ($S1/4$) Corner of said Section 16; thence $N01^{\circ}09'54''W$, 3928.43 feet, along the North - South Quarter Line of said section, to the Northwest Corner of the $SW1/4 - NE1/4$; thence $S88^{\circ}15'57''E$, 1460.30 feet to the Northeast Corner of said forty; thence $N00^{\circ}18'45''W$, 1344.81 feet to the Northwest Corner of the $NE1/4 - NE1/4$ of said Section 16; thence $S88^{\circ}23'05''E$, 1480.17 feet along the North Line of said Section 16 and the centerline of Elmwood Road, to the point of beginning, containing 304.4527 acres. The North 33 feet of the $NE1/4 - NE1/4$ of said Section 16 is reserved for County Road purposes.

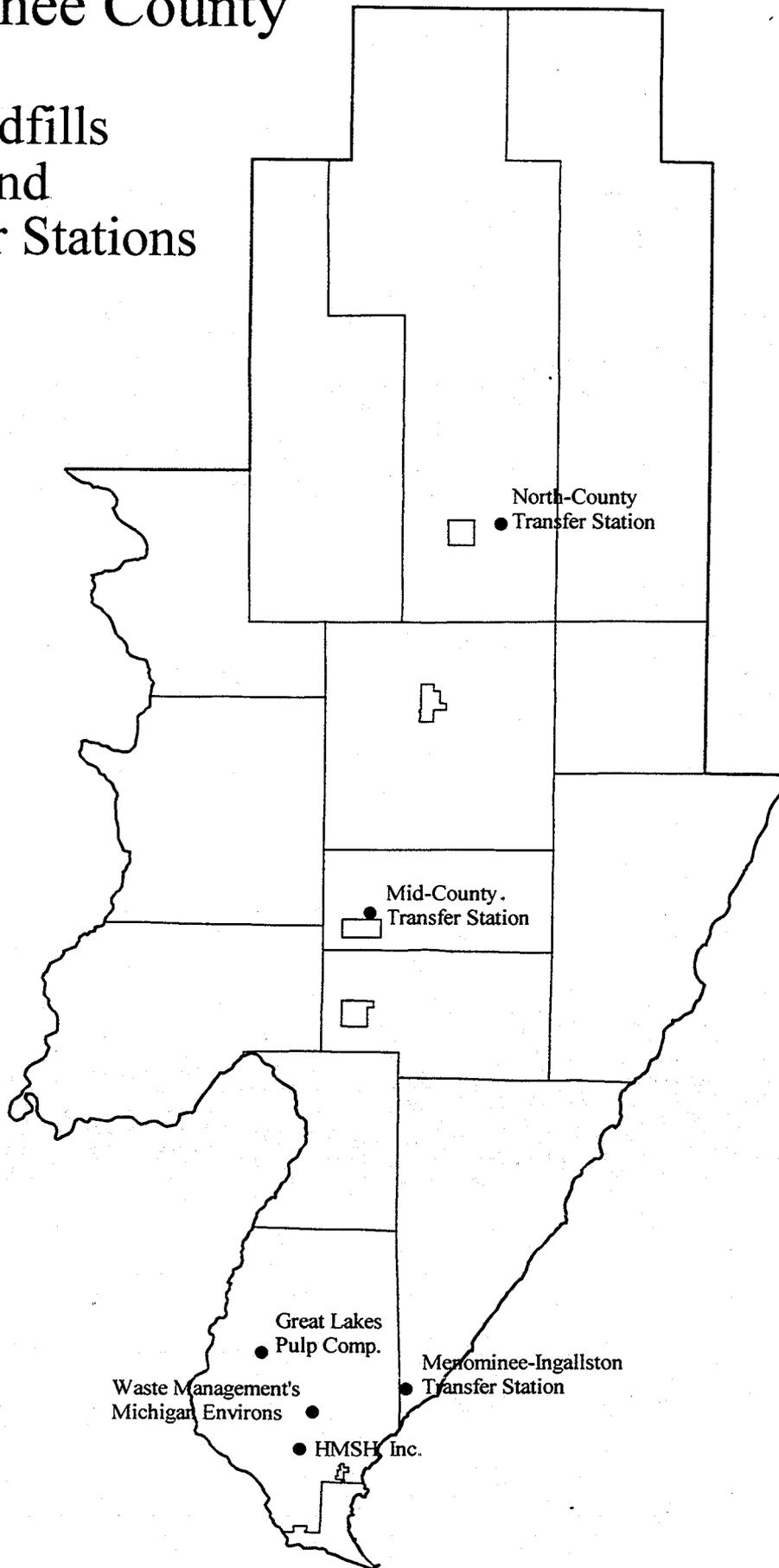
LEGAL DESCRIPTION - PARCEL 2:

All that part of Sections 3, 4, 8, 9, and 10 of Township 32 North - Range 27 West, Menominee Township, Menominee County, Michigan, being bounded and described as follows:

From the Southeast Corner of said Section 9, measure $N88^{\circ}23'05''W$, 1480.17 feet along the South Line of said section and the centerline of Elmwood Road, to the Southeast Corner of the $SW1/4 - SE1/4$ of said section and the point of beginning of the parcel hereinafter described:
thence continue $N88^{\circ}23'05''W$, 1480.18 feet along said South Line and said centerline, to the South Quarter ($S1/4$) Corner of said Section 9; thence $N88^{\circ}20'55''W$, 2188.85 feet along said south line and said centerline; thence $N03^{\circ}37'45''E$, 200.00 feet; thence $N88^{\circ}20'55''W$, 150.00 feet; thence $S03^{\circ}37'45''W$, 200.00 feet to the South Line of said Section 9 and the centerline of Elmwood Road; thence $N88^{\circ}20'55''W$, 289.30 feet along said South Line and said centerline, to the Southeast Corner of said Section 8; thence $N87^{\circ}56'29''W$, 2788.28 feet to the South Quarter ($S1/4$) Corner of said Section 8; thence $N02^{\circ}49'27''E$, 2563.98 feet to the Center Quarter ($C1/4$) Corner of said section; thence $S89^{\circ}11'26''E$, 2666.79 feet along the East - West Quarter Line of said section, to the Northwest Corner of lands owned by the FEDERAL AVIATION ADMINISTRATION; thence $S43^{\circ}32'12''E$, 84.76 feet along said lands; thence $S88^{\circ}35'54''E$, 1685.00 feet along the South Line of said lands; thence $S12^{\circ}54'06''W$, 460.00 feet along the Westerly Line of said lands; thence $S77^{\circ}05'54''E$, 120.00 feet along the Southerly Line of said lands; thence $N12^{\circ}54'06''E$, 120.00 feet along the Easterly Line of said lands; thence $N77^{\circ}05'54''W$, 70.00 feet along said lands; thence $N12^{\circ}54'06''E$, 411.40 feet along the Easterly Line of said lands, to the South Line of the $SE1/4 - NW1/4$ of said Section 9; thence $N88^{\circ}35'54''W$, 403.07 feet to the Southwest Corner of said forty; thence $N01^{\circ}58'12''E$, 1321.17 feet to the Northwest Corner of said forty; thence $S88^{\circ}30'32''E$, 1364.01 feet to the Northeast Corner of said forty; thence $N02^{\circ}47'45''E$, 1319.21 feet to the South Quarter ($S1/4$) Corner of said Section 4; thence $N00^{\circ}04'57''E$, 2693.94 feet to the Center Quarter ($C1/4$) Corner of said Section 4; thence $S88^{\circ}14'28''E$, 2720.77 feet to the East Quarter ($E1/4$) Corner of said Section 4; thence $S87^{\circ}04'22''E$, 2649.01 feet to the Center Quarter ($C1/4$) Corner of said Section 3; thence $S01^{\circ}15'58''E$, 1350.25 feet to the Southeast Corner of the $NE1/4 - SW1/4$ of said Section 3; thence $N86^{\circ}50'49''W$, 1320.73 feet to the Southwest Corner of said forty; thence $S01^{\circ}26'32''E$, 1345.33 feet to the Northwest Corner of the $NE1/4 - NW1/4$ of said Section 10; thence $S86^{\circ}37'11''E$, 1317.00 feet to the North Quarter ($N1/4$) Corner of said Section 10; thence $S01^{\circ}00'03''W$, 1340.15 feet to the Southeast Corner of said forty; thence $N86^{\circ}07'59''W$, 1308.92 feet to the Southwest Corner of said forty; thence $S00^{\circ}37'50''W$, 1329.40 feet to the Southeast Corner of the $SW1/4 - NW1/4$ of said Section 10; thence $N85^{\circ}38'25''W$, 1300.92 feet to the East Quarter ($E1/4$) Corner of said Section 9; thence $S01^{\circ}51'08''W$, 1322.96 feet to the Southeast Corner of the $NE1/4 - SE1/4$ of said section; thence $N88^{\circ}29'27''W$, 1469.34 feet to the Southwest Corner of said forty; thence $S02^{\circ}19'23''W$, 1320.33 feet to the point of beginning, containing 1,077.7286 acres, Excluding Certified Survey No. 173, described as follows: From the East Quarter ($E1/4$) Corner of said Section 8, measure $S01^{\circ}26'59''W$, 826.05 feet along the East Line of said Section; thence $N88^{\circ}33'01''W$, 544.06 feet to the point of beginning; thence $N83^{\circ}20'00''W$, 115.22 feet to the East Line of County Road No. 577 (C.R. 577); thence $S09^{\circ}09'00''W$, 282.28 feet along said East Line; thence Southeasterly, 506.87 feet along the arc of a curve to the left, whose chord bears $S10^{\circ}42'00''E$, 496.80 feet; thence $S30^{\circ}33'24''E$, 83.76 feet along said Easterly Line; thence $N01^{\circ}42'00''E$, 825.96 feet to the point of beginning. The South 33 feet of the above described parcel is reserved for County Road purposes. Also reserving a 66 foot strip of land lying on 33 feet on either side of the centerline (as presently located) of County Road No. 577, as shown hereon, for County Road purposes.

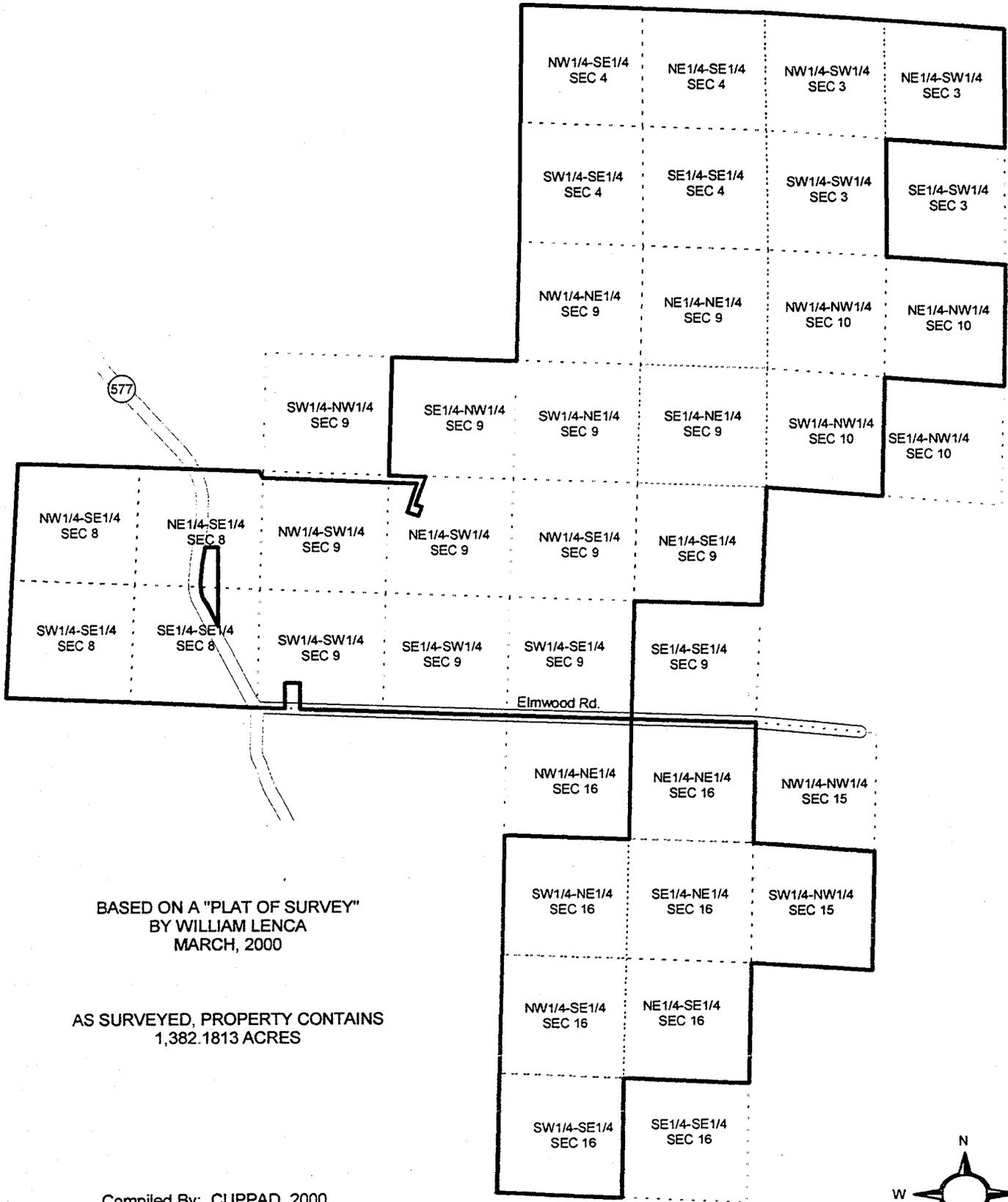
Menominee County

Landfills And Transfer Stations



Lands of Waste Management's Michigan Environs Landfill

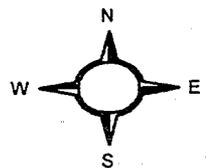
PART OF SECTIONS 3, 4, 8, 9, 10, 15, AND 16 OF TOWNSHIP 32 NORTH - RANGE 27 WEST
MENOMINEE TOWNSHIP, MENOMINEE COUNTY, MICHIGAN



BASED ON A "PLAT OF SURVEY"
BY WILLIAM LENCA
MARCH, 2000

AS SURVEYED, PROPERTY CONTAINS
1,382.1813 ACRES

Compiled By: CUPPAD, 2000



ATTACHMENTS

Inter-County Agreements

Copies of Inter-County agreements with other Counties (if any).

None at this time.

ATTACHMENTS

Special Conditions

None