STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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

INTERNET: www deq state mi us

RUSSELL J. HARDING, Director

October 3, 2000

Mr. Ronald Neuman, Chairperson
Cheboygan County Board of Commissioners
P.O. Box 70
Cheboygan, Michigan 49721

Dear Mr. Neuman:

The Department of Environmental Quality (DEQ) received the locally approved update to the Cheboygan County Solid Waste Management Plan (Plan) on July 23, 2000.

By this letter, this Plan is hereby approved and Cheboygan County (County) now assumes responsibility for the enforcement and implementation of this Plan. The DEQ would like to thank the County for their efforts in addressing the County's solid waste management issues.

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

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

If you have any questions, please contact Mr. Seth Phillips, Chief, Solid Waste Management Unit, at 517-373-4750.

Sincerely,

Gary R. Hughes acting

Russell J. Harding
Director
517-373-7917

cc: Senator Walter H. North
Representative Andrew W. Neumann
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Phil Roycraft, DEQ - Cadillac
Mr. Seth Phillips, DEQ
Mr. Stan Idziak, DEQ
Cheboygan County File

CHEBOYGAN COUNTY
SOLID WASTE MANAGEMENT PLAN
January, 2000

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:

PARICIPATING COUNTIES: Cheboygan

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 D.

Municipality	Original Planning County	New Planning County

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:
Northeast Michigan Council of Governments (NEMCOG)

CONTACT PERSON: Diane Rekowski, Director

ADDRESS: 121 E. Mitchell
PO Box 457
Gaylord, MI 49734

PHONE: (517) 732-3551 FAX: (517) 732-5578

E-MAIL: nemcog@nemcog.org

CENTRAL REPOSITORY LOCATION(S): Cheboygan County Building
County Board of Commissioner's Office
870 Main St.
Cheboygan, MI 49721

CHEBOYGAN COUNTY

SOLID WASTE MANAGEMENT PLAN

Resolutions for Plan Approval

Approval:

Cheboygan County Board of Commissioners
City of Cheboygan
Village of Mackinaw City
Village of Wolverine
Aloha Township
Benton Township
Burt Township
Ellis Township
Forest Township
Grant Township
Koehler Township
Mentor Township
Nunda Township
Tuscarora Township
Walker Township
Waverly Township

68.18% Local Approval Obtained

Resolution Pending:

Beaugrand Township
Hebron Township
Inverness Township
Mullett Township
Munro Township
Wilmont Township

Northeast Michigan Council of Governments
NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.mi.us
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

Meeting Notice

Cheboygan County Solid Waste Planning Committee
January 13, 2000
3:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

Agenda

I. Call to Order

II. Members Present

III. Minutes of Previous Meeting

IV. Review of Public Comments

V. Review of Draft Solid Waste Management Plan

VI. Public Comment

VII. Approval of Cheboygan County Solid Waste Management Plan

VIII. Adjournment

AUG 2 2000

Minutes of the

Cheboygan County Solid Waste Planning Committee
January 13, 2000
3:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI

Call To Order: The meeting was called to order by Chair Charles Brown.

Members Present: Charles Brown, Herb Makima, Scott McNeil, Ann Baughman, Matt Schindewolf, Ken Paquet, Deanna Gilbert, Robert Heilman. DPA: Diane Rekowski. Guests: Wayne Vermilya, Robert Morgan.

Minutes of Previous Meeting: Moved by K. Paquet, seconded by H. Makima to approve the minutes of the September meeting and the Public Hearing. Ayes all, motion approved.

Review of Public Comments: All public comments received were sent and passed out to committee members.

Review of Solid Waste Management Plan: Discussion then took place on the draft solid waste plan. D. Rekowski provided the committee with an outline of he changes that were made based on the public comments. Discussion then took place on the changes.

Public Comment: Wayne Vermilya discussed with the committee: his reasons for not wanting Cheboygan County to list the Elk Run Landfill as a disposal option; the disposal agreement between Presque Isle County and Charlevoix County; and other issues regarding solid waste management.

Approval of Solid Waste Plan: M. Schindewolf moved, seconded by R. Heilman to approve the Plan, subject to changes discussed at meeting, and move it forward to the County Board of Commissioners Ayes all, motion carried.

Other Business: C. Brown thanked everyone for their participation. The Plan, if approved by the County Board will then move forward to the municipalities for their approval. The Committee will receive a letter at that point thanking the members for their participation. D. Rekowski also thanked the Committee for their time and commented on the excellent leadership of Chair Charles Brown.

Adjournment: The meeting was adjourned at 4:15 p.m.

COUNTY OF CHEBOYGAN
BOARD OF COMMISSIONERS

County Building • P.O. Box 70
CHEBOYGAN, MICHIGAN 49721

Telephone (616) 627-8847

RESOLUTION OF APPROVAL
FOR CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to PA 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That the Cheboygan County Board of Commissioners hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Makima, seconded by Bolinger

To adopt the above resolution at a meeting held on April 25, 2000.

Ayes 9

Nays 0

Abstain 0

Absent 0

Dated: 4/25/00

Ronald J. Neuman
Chairman
Cheboygan County Board of Commissioners

Vicky L. Pyrzynski, County Clerk Register

CITY OF CHEBOYGAN
A RESOLUTION OF APPROVAL FOR
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, the Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the County; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the County Solid Waste Management Plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That the City Council of the City of Cheboygan hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Motion by Council Member Boardman, seconded by Council Member Krawczewski to adopt the above Resolution at a meeting held on May 23, 2000.

Yes Votes: Council Members Chlopan, Riddle, Boardman, Charboneau, Temple, Spinella and Krawczewski
No Votes: None
Abstain: None
Absent: None

Attested by: _____
Scott E. McNeil, City Manager

Witnessed by: _____
Kenneth J. Kwiatkowski, Clerk

A RESOLUTION
Of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated sold waste planning agency for the county; and

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county sold waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and it Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That the Village of Mackinaw City (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Williams, seconded by Alford to adopt the above resolution at a meeting held on May 18, 2000 (date).

Ayes 6

Nays 0

Abstain 0

Absent 1

Attested by: Sandra M. Krueger
Sandra M. Krueger
Village Clerk

Note: Please mail a copy to: Diane Rekowski,
NEMCOG
PO Box 457,
Gaylord, MI 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That The Village of Wolverine (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Robert Rochester, seconded by Rosie Hilliker

to adopt the above resolution at a meeting held on June 12, 2000 (date).

Ayes 6

Nays 0

Abstain 0

Absent 1

Attested by: Lissa N. Austin
Lissa N. Austin, Clerk

Witnessed by: Arlen Salgat
Arlen Salgat, President

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That ALOHA TOWNSHIP (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Charles Veneros, seconded by Marvin Shebel

to adopt the above resolution at a meeting held on 7/10/00 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Joyce Barr
Joyce Barr, Clerk

Witnessed by: Charles N. Veneros
Charles Veneros, Treasurer

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules,

NOW THEREFORE BE IT RESOLVED, That Benton Township hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Treasurer Ann Couture, seconded by Trustee Beverly Wixson to adopt the above resolution
at a meeting held on June 6, 2000.

Aye 4 Nays 0 Abstain 0 Absent 1

I hereby certify that the Township of Benton, County of Cheboygan, State of Michigan adopted the resolution shown above at its regular meeting on June 6, 2000.

Attest: Maureen Gustin
Maureen Gustin, Benton Township Clerk

Witnessed by: Ann M. Couture

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That BURT TOWNSHIP (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by GENE HODULIK, seconded by HARRY NAULT

to adopt the above resolution at a meeting held on JUNE 1, 2000 (date).

Ayes 5

Nays 0

Abstain 0

Absent _____

Attested by: Elmira L. Weaver, clerk

Witnessed by: [illegible]

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Ellis Township (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Kotar, seconded by Hilliker

to adopt the above resolution at a meeting held on June 13, 2000 (date).

Ayes IIII

Nays 0

Abstain 0

Absent 0

Attested by: Sheryl H. Hill

Witnessed by: Robert Hope

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Forest township Board (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Harry Hopkins, seconded by Shirley Crowe

to adopt the above resolution at a meeting held on June 6 2000 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Harry Hopkins

Witnessed by: Shirley Crowe

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That GRANT TOWNSHIP (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by COLLIN CLEARY, seconded by ROGER WOODEN

to adopt the above resolution at a meeting held on MAY 9, 2000 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Kathleen Dart

Witnessed by: Rachel G Vallance

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Koehler Twp (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by FRANK CRIBB, seconded by BRANDA NASTI

to adopt the above resolution at a meeting held on 6/12/2000 (date).

Ayes 4

Nays 0

Abstain 1

Absent _____

Attested by: [signature]

Witnessed by: Cheryl L. Rocan

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Mentor Township (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Don Renser, seconded by Phyllis Mattson

to adopt the above resolution at a meeting held on July 13, 2000 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Yvonne J. Rensel, Clerk.

Witnessed by: _____

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Nunda Township (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Gloria Pierson, seconded by Carl Edgmon

to adopt the above resolution at a meeting held on June 13, 2000 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: E. Marie Sloan

Witnessed by: Ralph T Kent

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Tuscarora Township (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Trustee Budrick, seconded by Trustee Weldin

to adopt the above resolution at a meeting held on June 12, 2000 (date).

Ayes 3

Nays 0

Abstain 0

Absent 2

Attested by: Eric A. Jacobson

Witnessed by: Diane M. Hoh

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That WALKER TOWNSHIP (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by HAROLD HANEL, seconded by HAYDEN WILSON to adopt the above resolution at a meeting held on JUNE 8, 2000 (date).

Ayes 5

Nays 0

Abstain 0

Absent 0

Attested by: Eli Hope Clerk

Witnessed by: Boyd Southard

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

A RESOLUTION
of Approval for
CHEBOYGAN COUNTY SOLID WASTE MANAGEMENT PLAN

WHEREAS, The Northeast Michigan Council of Governments (NEMCOG) is the designated solid waste planning agency for the county; and,

WHEREAS, NEMCOG and the Cheboygan County Solid Waste Planning Committee have prepared an update of the county solid waste management plan pursuant to P.A. 451, of 1994, as amended, Part 115, Solid Waste Management, and its Administrative Rules.

NOW THEREFORE BE IT RESOLVED, That Waverly Township (Local Government Name) hereby approves of the 1999 Update of the Cheboygan County Solid Waste Management Plan.

Moved by Mike Penfold, seconded by Jerry Young

to adopt the above resolution at a meeting held on May 11, 2000 (date).

Ayes 5

Nays _____

Abstain _____

Absent _____

Attested by: Tony Matelski

Witnessed by: Diana Gilbert

Note: Please mail a copy to: Diane Rekowski, NEMCOG, PO Box 457, Gaylord, MI, 49734

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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

Cheboygan County is located at the tip of the lower peninsula encompassing an area of 798 square miles. The county is bordered on the north by 325 miles of Lake Huron shoreline, to the east by Presque Isle County, to the west by Emmet County, and to the south by Otsego County.

The county is comprised of nineteen townships, one city, the City of Cheboygan, and two villages, the Village of Mackinaw City, and the Village of Wolverine. Small unincorporated communities are scattered throughout the county which include: Afton, Topinabee, Tower, and Indian River.

Cheboygan County, with the exception of a few coastal watersheds, is predominantly within the Cheboygan River Watershed. Some of Michigan's largest lakes and well renown blue ribbon trout streams are found within the county. The county has a total of 344 inland lakes covering 51,358 acres, and 420 miles of streams, of which 118 miles are designated trout streams. The largest water bodies include: Black Lake, Burt Lake, Douglas Lake, and Mullett Lake. The "Inland Waterway" which provides waterway access from Lake Huron through the Cheboygan River to Mullett Lake, Indian River, Burt Lake, Crooked River, and finally to Pickerel/Crooked lake has become a tourist destination and is widely used by recreational watercraft. Numerous bogs, marshes, and swamps, some of which are of statewide significance due to their size and wetland type are also found throughout the county.

Cheboygan County is primarily rural in character. Data from the 1998 Michigan Resource Information System (MIRIS) land cover/use inventory indicates that 63.8% of the County's 509,588 total acreage is forested, 6.3% agricultural, 10.7 % non-forest, 5.2 % wetlands, and 9.8% water. Approximately 4% of the County's land was used for urban-type purposes in 1998 including commercial, industrial/recreational and residential.

The economic base of Cheboygan County relies heavily on the tourist industry. The retail and service sectors employ the largest percentage of the county's wage and salary employment. Manufacturing in Cheboygan County has experienced an overall decline in its total number of employed persons over the past ten years, largely due to the closure of a paper mill in the City of Cheboygan. However, since the re-opening of the plant under new ownership, increases in employment in this sector continue to occur.

Cheboygan County Overview

Township or Municipality Name	Population	% Land Use		% of Economic Base*				
		Rural	Urban	Ag	For	Ind	Com	Oth
Aloha Twp	763	100	0	1	3	16	55	25
Beaugrand Twp	1,164	100	0	1	3	16	52	28
Benton Twp	2,577	100	0	1	3	13	58	25
Burt Twp	575	100	0	1	3	14	54	28
Cheboygan City	5,216	0	100	<1	<1	12	60	27
Ellis Twp	373	100	0	1	4	25	43	27
Forest Twp	1,002	100	0	1	3	25	49	22
Grant Twp	740	100	0	2	4	14	51	29
Hebron Twp	218	100	0	1	3	19	52	25
Inverness Twp	2,120	100	0	1	3	17	55	24
Koehler Twp	779	100	0	1	2	11	62	24
Mackinaw Twp	644	100	0	<1	<1	9	61	29
Mentor Twp	559	100	0	1	3	23	52	21
Mullett Twp	1,131	100	0	<1	<1	13	58	29
Munro Twp	552	100	0	1	3	28	38	30
Nunda Twp	785	100	0	2	6	24	50	18
Tuscarora Twp	2,480	100	0	1	3	10	62	24
Walker Twp	276	100	0	0	0	35	52	13
Waverly Twp	400	100	0	2	3	7	60	28
Wilmot Twp	639	100	0	2	4	24	58	12

Total Population 22,993 (1996 Census Population Estimates)

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

Conclusions

The Cheboygan County Solid Waste Planning Committee was established by the County Board of Commissioners after advertising in local newspapers and soliciting appointments from local businesses and organizations. Once committee positions were filled, the Cheboygan County Board of Commissioners voted on and approved appointments to the solid waste planning committee.

Committee meetings were then held to obtain input into the overall plan. The current solid waste management system was reviewed in detail and the deficiencies of this system were discussed. Tours were conducted of the present system which included: Type A and B transfer sites; the Elk Ridge, Montmorency-Oscoda-Alpena, and Waste Management Landfills; and the Emmet County Recycling

Center. In developing the selected system, attempts were made to solve the problems and deficiencies in the present system and to improve resource recovery programs in the county.

Each solid waste management alternative for Cheboygan County was assessed based on technical feasibility, economic feasibility, access to land, access to transportation, effects on energy, environmental impacts, public acceptability, and conservation of natural resources. Selection of the solid waste management system was based on the system that would be in the best interest of the residents of Cheboygan County. The committee then, over a series of meetings reviewed and deliberated on solid waste management options for Cheboygan County. The following provides an outline of the various components considered in the development of solid waste management alternatives:

Collection:

- Curbside collection
- Annual clean-up days
- Encourage additional Transfer Stations: Type A & B
- Volume-based Pricing
- Franchise collection services

Resource Recovery

- Recycling Coordination with Emmet County. Compartmentalized containers strategically located throughout county. Hauled to Emmet County facility. Educational efforts coordinated with existing agencies and Emmet County.
- Recycling Volunteer Program only.
- County established Material Recovery Facility.
- Establish new compost sites.
- Increase education on backyard composting.
- Household Hazardous Waste Days
- Regional Recycling Program

Disposal Import

- List counties able to import into transfer stations.
- No outside counties able to import waste into transfer facilities.

Disposal Export

- Counties where Cheboygan County Solid waste may be disposed.

The SWPC developed two solid waste management systems based from the above list. The two systems are:

Alternative I. Same solid waste management system as presently available: Curbside collection through private agreements, volunteer recycling program, and disposal at Elk Run Sanitary Landfill, Montmorency-Oscoda-Alpena Sanitary Landfill, and Waste Management Landfill in Waters, MI.

Alternative II. Expanded Solid Waste Management System to include increased cost-effectiveness of collection services, high priority placed on implementing a coordinated county-wide recycling program with Emmet County and/or a regional recycling initiative, an annual household hazardous waste collection program, and primary and contingency disposal at Elk Run Sanitary Landfill in Presque Isle County, Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County, and Waste Management Inc. Landfill in Crawford County.

with Emmet County and/or a regional recycling initiative, an annual household hazardous waste collection program, and primary and contingency disposal at Elk Run Sanitary Landfill in Presque Isle County, Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County, and Waste Management Inc. Landfill in Crawford County.

Selected Alternative

Alternative II was selected as the desired system for solid waste management in Cheboygan County. The selected system was chosen by a majority vote of the Solid Waste Planning Committee. The following is a brief overview of Alternative II.

Collection
Collection of solid waste will continue through private agreements between individuals and waste hauling firms. Townships may at their discretion continue to provide clean-up days for large item disposal and to discourage illegal disposal.

Resource Recovery
Resource recovery efforts will involve the development and implementation of a county –wide recycling program. The recycling program will be in coordination with Emmet County and/or a regional recycling initiative. The program will involve the placement of compartmentalized containers in strategic locations throughout the county. The containers will be transported to the Emmet County Recycling Center and/or a regional recycling facility for central processing and marketing. Resource recovery efforts will also involve establishing an annual household and agricultural hazardous waste collection day. The existing composting facility in the City of Cheboygan will be enhanced, new sites will be developed as determined necessary, and educational efforts will emphasize backyard composting techniques for those residing in rural areas of the county.

Disposal
Final disposal of solid waste will be at Elk Run Sanitary Landfill in Presque Isle County, Montmorency - Oscoda-Alpena Sanitary Landfill in Montmorency County, and the Waste Management Sanitary Landfill in Crawford County.

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:

Cheboygan County Solid Waste Goals and Objectives

Goal 1: Establish and maintain a resource recovery program to reduce the overall dependency on land disposal and to provide for the conservation of natural resources.

Objective 1a: Develop a plan for county-wide recycling, in coordination with adjacent counties.

A. Meet with Emmet County to develop an agreement for initially utilizing the Emmet County Processing Facility for processing of Cheboygan County's materials.

B. Determine type of collection system: drop-off centers, curbside.

C. Determine transportation system needed for selected system.

D. If drop-off centers, determine location, equipment, operation, and transportation needs.

E. Determine budget.

F. Continue to meet with adjacent counties to explore the feasibility of a regional recycling program.

Objective 1b: Investigate a partnership with municipalities and private companies for operations and transportation needs of the drop-off centers.

A. Organize a meeting with municipalities and private companies to discuss roles and partnerships for recycling program implementation.

B. Develop agreements with participating municipalities and private companies.

Objective 1c: Develop a funding mechanism to support the county-wide recycling program which may include a recycling fee or a surcharge on solid waste.

A. Explore alternatives for funding the county-wide recycling program.

B. Determine best funding mechanism for Cheboygan County.

Objective 1d: Develop a comprehensive resource recovery education program to increase the understanding of the benefits of reducing, reusing, and recycling solid wastes. The program will target schools, organizations, businesses, local government and the general public, etc

A. Institute a semi-annual newsletter on the "how- to's" of recycling.

B. Meet with Emmet County to coordinate educational efforts.

C. Determine educational dissemination strategy utilizing area service agencies and organizations.

D. Gather available information for local dissemination.

E. Designate an office where the public can direct questions about solid waste management and where they can obtain printed educational materials.

Objective 1e. Expand and improve composting opportunities in Cheboygan County.

A. On an annual basis, disseminate educational information to the general public on composting opportunities and backyard composting techniques.

B. Determine areas in need of composting sites.

C. Establish composting sites at selected locations.

Goal 2: Provide for the protection of the public's health and the quality of the natural resources: air, land, ground and surface waters, by increasing the overall efficiency of solid waste collection, transportation, and disposal.

Objective 2a. Develop a cost-effective means for the collection, transportation and disposal of solid waste in Cheboygan County.

A. Explore other county's approaches to maintaining competitive solid waste management services, which may include franchising of services, volume based pricing ordinance, etc.

B. Determine methods to maintain solid waste competition.

Objective 2b. Coordinate the collection and disposal of household and agricultural hazardous waste with Emmet County.

A. Biannually, organize and hold a household hazardous waste collection day.

B. Develop and distribute educational materials that describe which wastes classify as hazardous and explain proper disposal methods.

C. Meet with other counties in the region to discuss holding a multi-county collection day.

D. Research available hazardous waste disposal programs.

E. Promote existing hazardous waste programs; i.e. Operation Clean Sweep.

Objective 2c. Enact an anti-blight ordinance to reduce dumping in woods.

A. Draft an anti-blight ordinance to discourage improper disposal of solid waste.

B. On an annual basis, hold clean-up days throughout the county.

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.

Cheboygan County was included in the 1980 Northeast Solid Waste Stream Assessment. Base data from this Waste Stream Analysis was utilized to determine the quantity and composition of solid waste generated in the 1999 update of the Cheboygan County Solid Waste Plan. Residential/commercial solid waste data was calculated by staff based on the generation rate of 4 lbs/capita/day, which was calculated from the amount of Cheboygan County solid waste disposed of at area landfills in 1996 and 1997. The 1997 volumes are based on population estimates (Source: Bureau of Census, U.S. Department of Commerce) and the 2000, 2005 and 2010 generation volumes are based on population projections (Source: Michigan Department of Management and Budget). The projected solid waste generation for Cheboygan County, broken down by township, is shown in the following table. These figures are based on future population trends and do not take into consideration any factors affecting solid waste fluctuations.

Cheboygan County Solid Waste Generation
Residential and Commercial Waste

	1997 (tons/yr)	2000 (tons/yr)	2005 (tons/yr)	2010 (tons/yr)
Aloha Twp	588	607	623	641
Beaugrand Twp	823	849	873	898
Benton Twp	1,647	1,697	1,746	1,796
Burt Twp	420	433	445	458
City of Cheboygan	4,151	4279	4,402	4,525
Ellis Twp	235	242	250	256
Forest Twp	790	814	837	861
Grant Twp	471	485	499	513
Hebron Twp	151	156	161	165
Inverness Twp	1,781	1,836	1,889	1,942
Koehler Twp	622	641	659	678
Mackinaw City	319	329	339	348
Mackinaw Twp	134	139	142	147
Mentor Twp	371	382	393	403
Mullet Twp	756	780	802	824
Munro Twp	369	381	391	402
Nunda Twp	302	312	321	330
Tuscarora Twp	1,580	1,628	1,675	1,722
Walker Twp	218	225	231	238
Waverly Twp	353	364	375	385
Wilmot Twp	437	450	464	477
Village of Wolverine	285	294	303	312
Cheboygan County	**16,806**	**17,321**	**17,819**	**18,321**

Industrial waste data was calculated based on the generation rate of 3 lbs/capita/day. This was derived from a survey of industrial waste producers and the amount of waste landfilled in 1996 and 1997. The 1997 solid waste volumes are based on population estimates (Source: Bureau of Census, U.S. Department of Commerce) and the 2000, 2005 and 2010 volumes are based on population projections (Source: Michigan Department of Management and Budget). In 1997, Great Lakes Tissue was the largest industrial waste producer, generating 32,850 yds^3/year that needed to be landfilled. Other industrial waste generators generate only small amounts of solid waste needing disposal. A large percentage of industries in Cheboygan County recycle some or all of their industrial waste. It is expected that industrial waste needing disposal will actually decrease over time, as industries find ways to recycle their wastes. Already in 1998, Great Lakes Tissue has dramatically lowered the amount of industrial waste they landfill by locating a buyer for their plastic waste. This has reduced their amount of waste needing landfilling to approximately 27,000 yds^3/year in 1998 and to approximately 5,000yd3/year in 1999.

Cheboygan County Solid Waste Needing Disposal
Industrial Waste

	1997 (tons/yr)	2000 (tons/yr)	2005 (tons/yr)	2010 (tons/yr)
Industrial Waste	11,007	12,991	13,364	13,741

Cheboygan County does not anticipate major problems associated with managing the solid waste generated within its county. Many industries have found ways to recycle all or portions of their wastes. Collection of solid waste is currently available through private agreements with private hauling companies. Increase in waste due to increase in tourism and seasonal home development will be handled through private hauling companies. Increases in waste due to population growth will be moderated by the institution of a recycling program, a household hazardous waste collection program and an educational campaign to increase participation in composting.

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:

In 1997: 27,813 tons/yr
In 2000: 30,312 tons/yr
In 2005: 31,183 tons/yr
In 2010: 32,063 tons/yr

DATA BASE - SOLID WASTE DISPOSAL AREAS

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.

There are currently no landfills open for public use in Cheboygan County. All solid waste is exported out of the county and transported primarily to the Waste Management, Inc. Sanitary Landfill in Waters. Solid waste is also transported to the Montmorency–Oscoda –Alpena Sanitary Landfill (MOASL) in Montmorency County, and the Elk Run Landfill in Presque Isle County. However, the future use of the Elk Run Landfill is currently unknown as the landfill recently changed ownership to Republic, a waste management firm.

Transfer stations presently utilized for solid waste disposal are located in the City of Cheboygan and throughout the county. A Type A transfer station, owned and operated by Waste Management, Inc. is located in the City of Cheboygan's Industrial Park; Section 25, Township 38 N, Range 2 W. Benton, Inverness, Koehler and Wilmot townships each have one transfer station and Burt, Forest and Waverly townships each have two transfer stations. In addition, Emmet County's Type A Transfer Facility may also be used for solid waste disposal.

See Attachment C for a map showing the location of transfer stations, disposal sites and relative distances to disposal sites.

DATA BASE - FACILITY DESCRIPTIONS

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill
Facility Name: Waste Management, Inc. Sanitary Landfill of Waters
County: Crawford Location: Town: 28 N Range: 8 E Section(s): 4

Map identifying location included in Attachment Section: Yes

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

Owner: Privately owned by 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, closure pending	X special wastes *
	other:

* Explanation of special wastes, including a specific list and/or conditions:
Contaminated soils, non-friable materials

Site Size:

Total area of facility property:	252.2	acres
Total area sited for use:	252.2	acres
Total area permitted:	79.07	acres
Operating:	9.7	acres
Not excavated:	64.87	acres

Current capacity:	8.2 million	yds3
Estimated lifetime:	+ 20	years
Estimated days open per year:	313	days
Estimated yearly disposal volume:	185,000-200,000	yds3

Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill
Facility Name: Montmorency-Oscoda-Alpena Sanitary Landfill

County: Montmorency Location: Town: 29N Range: 3E Section(s): 6
Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency, Oscoda and Alpena Counties

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

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

Site Size:

Total area of facility property:	80	acres [1]
Total area sited for use:	80	acres
Total area permitted:	80	acres
Operating:	3-4	acres
Not excavated:	37-40	acres

Current capacity:	3,500,000	yds3
Estimated lifetime:	30	years
Estimated days open per year:	310	days
Estimated yearly disposal volume:	145,000	yds3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	Will be adding recovery in future	
Waste-to-energy incinerators:	NA	megawatts

1 Currently in the process of obtaining a construction permit for a new cell
NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill
Facility Name: Elk Run Sanitary Landfill

County: Presque Isle Location Town: T33N Range: R2E Section(s): NE ¼ of 5

Map identifying location included in Attachment Section: Yes

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

Owner: Republic, Inc.

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

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

Site Size:

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

Current capacity:	3, 400,000	yds3
Estimated lifetime:	35	years
Estimated days open per year:	52	days – will be open 1 day/week - 50 yds3/day
Estimated yearly disposal volume:	5,000	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station
Facility Name: Waste Management Transfer Station- City of Cheboygan

County: Cheboygan Location Town: T33N Range: R2E Section(s): NE ¼ of 5

Map identifying location included in Attachment Section: Yes

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 Sanitary Landfill, Inc., Crawford County

Owner: Waste Management, Inc.

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	300
Estimated yearly disposal volume:	56,628 yds3 /year (1999 estimate)

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Emmet County Type A Transfer Station

County: Emmet Location Town: T35N Range: R5W Section(s): NE ¼ of 5

Map identifying location included in Attachment Section: Yes

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 Sanitary Landfill, Inc., Crawford County

Owner: Emmet County

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, closure pending		special wastes *
			other:

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

Site Size:

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

Current capacity:		yds3
Estimated lifetime:		
Estimated days open per year:	300	
Estimated yearly disposal volume: (if applicable)	67,000	compacted cubic yards
Annual energy production:		
Landfill gas recovery projects:	NA	megawatts
Waste-to-energy incinerators:	NA	megawatts

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Benton Township
County: Cheboygan Location Town: 37N Range: 1E Section(s): 32

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Waste Management, Inc.

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Burt Township
County: Cheboygan Location Town: T36N Range: R3W Section(s): 20

Map identifying location included in Attachment Section: Yes

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, Inc., Crawford County

Owner: Burt Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Burt Township
County: Cheboygan Location Town: T36N Range: R3W Section(s): 12

Map identifying location included in Attachment Section: Yes

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, Inc., Crawford County

Owner: Burt Township

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

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

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

Current capacity: yds3
Estimated lifetime:
Estimated days open per year:
Estimated yearly disposal volume: yds3/month - minimal

(if applicable)
Annual energy production:
Landfill gas recovery projects: NA megawatts
Waste-to-energy incinerators: NA megawatts

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Forest Township
County: Cheboygan Location Town:T35N Range: R1E Section(s):10

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Forest Township

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

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

Site Size:

Total area of facility property:	acres
Total area sited for use:	acres
Total area permitted:	acres
Operating:	acres
Not excavated:	acres
Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Inverness Township
County: Cheboygan Location Town: T37N Range: R2W Section(s): 21

Map identifying location included in Attachment Section: Yes

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 Inc, Crawford County

Owner: Inverness Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Koehler Township
County: Cheboygan Location Town: T35N Range: R1E Section(s): 10

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Koehler Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Waverly Township
County: Cheboygan Location Town: T35N Range: 12E Section(s): 25

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Waverly Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Wilmot Township
County: Cheboygan Location Town: T33N Range: R3W Section(s): 11

Map identifying location included in Attachment Section: Yes

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 Inc. Crawford county

Owner: Wilmot Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

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.

Collection of residential and commercial solid waste in Cheboygan County is accomplished by commercial haulers. Curbside collection is the most common collection method with door to door pick up service provided in some instances. Cheboygan County is serviced by two commercial firms, however, Thunder Bay Sanitation services only a very small portion of the county. The haulers serving the county are:

Solid Waste Collection Services

Service Provider	Public/Private	Service Area	Payment	Disposal Facility
Waste Management, Inc.	Private	Cheboygan County	Customer	Waste Mgmt., Inc Elk Run Landfill
Thunder Bay Sanitation	Private	Onaway	Customer	MOASL[1]

[1]MOASL – Montmorency-Oscoda –Alpena Sanitary Landfill

DATA BASE - EVALUATION OF DEFICIENCIES AND PROBLEMS

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

Major deficiencies with regards to solid waste in Cheboygan County are primarily a result of minimal revenue available for solid waste management, lack of competition in refuse hauling, dumping in the woods and lack of recycling, composting and household hazardous waste programs.

One of the major deficiencies regarding solid waste in Cheboygan County is the lack of competition in refuse hauling. Providing competitive collection services is of major concern for the Cheboygan County Solid Waste Planning Committee. Currently, the county is serviced by two commercial haulers, Waste Management, Inc. and Thunder Bay Sanitation. However, Thunder Bay Sanitation services only a very small portion of the county in the area around Onaway. This results in the majority of the county being serviced by only one hauler. Lack of competition has resulted in price increases for residential and commercial collection services. Township officials operating greenbox transfer stations are also concerned about the lack of competitive bidding for greenbox collection services and the dramatic price increase experienced this past year. It is felt that the lack of competition in hauling services is a major deficiency of the current solid waste system in Cheboygan County.

Recycling opportunities in the county are limited and lack county-wide coordination. Existing recycling efforts are all run by volunteers. Several difficulties exist in starting a recycling program in Cheboygan, such as low volume, especially in rural areas, high costs of transporting materials to market, lack of a large centralized collection/storage site and lack of recycling equipment.

The current solid waste management system does not provide a means of proper disposal for household hazardous waste. A lack of knowledge by the general public of the proper disposal methods for household hazardous waste is a public health and environmental concern. Opportunities are lacking for proper disposal of household hazardous waste in the county.

There is a need to expand and improve composting opportunities in Cheboygan County. The City of Cheboygan operates the only composting facility in the county. Additional composting sites are needed for yard waste. Educational outreach to promote backyard composting throughout the county is needed. Increased educational outreach to the general public along with additional community composting sites would enhance participation by the public in backyard and community composting programs.

Improper disposal on state land was also identified as a problem throughout the county. Large items, in particular, are frequently found in the woods and include: refrigerators, water heaters, stoves, large furniture. Often the public does not know how to dispose of these items and consequently are disposed of in the woods.

DATA BASE - DEMOGRAPHICS

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

The Northeast Region of Michigan's Lower Peninsula is experiencing an increase in population. As the population ages, people are moving from urban to rural areas, seeking a higher quality of life than that found in the cities. Second home development is increasing throughout northeast Michigan and is expected to continue to increase as more people reach the retirement age.

Cheboygan County has experienced growth in total population over the past 70 years. Population growth rates between 1990 and 1997 for Cheboygan County and six of the surrounding counties was 13.4%. The County's average age is also increasing, in 1990, the largest age classification in the county was in the 25-44 year old bracket (27.2%). The 1996 estimates show that the 25-44 year old classification remains the largest followed by those 45-64 years old.

The major population centers of Cheboygan County are the City of Cheboygan and nearby areas of the adjacent townships. Concentrated growth has also occurred along the I-75 corridor near the communities of Wolverine, Indian River and Mackinaw City and along US-23. Population density in Cheboygan County from 1970 – 1990 increased between 9 – 100%. However, during this same period, the City of Cheboygan experienced a decline in population as people moved out into adjacent townships. Between 1990 – 1994, the percentage change in population density increased between 1 – 25%, with the exception of Walker and Munro Townships which experienced a decline.

Industrial development continues to be located primarily in the City of Cheboygan with new development occurring west of the City in Beaugrand Township.

The number of residential housing units in the county has been increasing at a rate greater than the population. Housing units, an indicator of seasonal population, saw a 5 –125% increase in the county from 1970 – 1980. From 1980 – 1990, housing units increased overall, although at a slower rate, except in Koehler Township where housing units declined.

In summary, population has increased in Cheboygan County and it is anticipated that this trend will continue at a steady pace. The trend of increased housing, an indicator of seasonal population, is also expected to continue as more people retire and move on a seasonal basis to less populated areas of the state.

DEPARTMENT OF MANAGEMENT AND BUDGET
POPULATION PROJECTIONS

	1995	2000	2005	2010
Aloha Twp	806	831	854	878
Beaugrand Twp	1,128	1,163	1,196	1,230
Benton Twp	2,256	2,325	2,392	2,460
Burt Twp	576	593	610	627
City of Cheboygan	5,686	5,861	6,030	6,199
Ellis Twp	322	332	342	351
Forest Twp	1,082	1,115	1,147	1,180
Grant Twp	645	664	684	703
Hebron Twp	207	214	220	226
Inverness Twp	2,440	2,515	2,587	2,660
Koehler Twp	852	878	903	929
Mackinaw City	437	451	464	477
Mackinaw Twp	184	190	195	201
Mentor Twp	508	523	538	552
Mullet Twp	1,036	1,068	1,098	1,129
Munro Twp	506	522	536	551
Nunda Twp	414	427	439	452
Tuscarora Twp	2,164	2,230	2,294	2,359
Walker Twp	299	308	317	326
Waverly Twp	484	498	513	527
Wilmot Twp	599	617	635	653
Village of Wolverine	391	403	415	427
Cheboygan County	**23,022**	**23,728**	**24,409**	**25,097**

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.

Land use trends in Cheboygan County indicate residential development occurring in and around the City of Cheboygan, along lakes, streams, and adjacent to major roads. Commercial development occurs primarily in and around the City of Cheboygan, near Mackinaw City and along I-75 and US-23. Industrial development occurs primarily in and around the City of Cheboygan.

The greatest number of housing units are found in and around the population centers. In Cheboygan County, the population and housing units are most numerous in the City of Cheboygan, the two townships east and south of the City, and in Tuscarora Township, mostly within and south of the community of Indian River and along the Burt Lake shoreline.

Tuscarora Township has the largest number of seasonal housing units within Cheboygan County due to the presence of Burt Lake. Seasonal housing units make up 41.6% of all housing units in the township. Burt, Grant, Mullett, Munro and Waverly townships all have a greater number of seasonal housing units than occupied (year-round) housing units.

Commercial development is primarily found in the City of Cheboygan, Village of Mackinaw City and the unincorporated community of Indian River. All serve the tourism industry and in addition the City of Cheboygan serves as a regional shopping center.

Industrial development is found primarily in the City of Cheboygan, with a few smaller manufacturing companies scattered throughout the county.

Future trends indicate that residential development will continue to increase at a faster pace than statewide averages. The development will continue to follow roads and will most likely occur on nonforest, upland forests, and agricultural lands. Commercial development will be concentrated near the City of Cheboygan, Mackinaw City and adjacent to I-75 and US-23. Industrial development will be concentrated in the City of Cheboygan and just outside the City in Beaugrand Township. Second home development will steadily increase as more people retire and move north. This will continue the trend of splitting off large parcels into smaller 5 and 10 acre sites.

DATA BASE - SOLID WASTE MANAGEMENT ALTERNATIVES

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.

Each solid waste management alternative for Cheboygan County was assessed based on the following criteria:

- Technical Feasibility
- Economic Feasibility
- Access to Land
- Access to Transportation
- Effects on Energy
- Environmental Impacts
- Public Acceptability
- Resource Conservation
- Waste Reduction
- Pollution Prevention
- Resource Recovery
- Ultimate Disposal Area Uses
- Institutional Arrangements

The majority of the selected alternatives focus on either sanitary landfilling, transfer stations, recycling, composting or combinations of each, a brief review of each follows:

Sanitary Landfilling: Sanitary landfilling is a cost-effective system in northern Michigan when implemented on a multi-county basis. Sufficient capacity exists at landfill sites located in northern Michigan. Potential environmental risks are primarily concerned with groundwater contamination.

Modular Incineration: Conversion of solid waste to energy is very attractive, however, a lack of markets makes this alternative prohibitively costly. Air pollution has also been problematic at existing facilities.

Volume Reduction: Volume reduction benefits from large scale shredding and baling of solid waste is not cost-effective since the region has excess landfill capacity and the cost of equipment is extremely high. For vehicle volume reduction, the rear loading packer truck is the most cost-effective vehicle for the region.

Transfer Stations: Transfer stations can be a very cost-effective method of transporting solid waste in rural areas or when long hauls are necessary to dispose of solid waste at a multi-county landfill.

Recycling: Recycling rates high public acceptability. Volume reduction through recycling and composting can be achieved in Cheboygan County, however, with the current markets, subsidy may be necessary for program success. A multi-county recycling effort would be most cost-effective for the county. Recycling of specific materials continues to be cost-effective for certain businesses and industries.

Composting: Composting is the least costly and energy intensive method of disposing of solid waste, especially in a rural region. Composting provides a reusable resource with economic value, and can be implemented individually or on a county-wide basis.

The Cheboygan County Solid Waste Planning Committee met and reviewed solid waste management options in the following areas:

Collection:

- Curbside collection
- Annual clean-up days
- Encourage additional Transfer Stations: Type A & B
- Volume-based Pricing
- Franchise collection services

Resource Recovery

- Recycling Coordination with Emmet County and/or a regional processing facility. Compartmentalized containers strategically located throughout county. Hauled to Emmet County facility. Educational efforts coordinated with existing agencies and Emmet County.
- Recycling Volunteer Program only.
- County established Material Recovery Facility.
- Establish new compost sites.
- Increase education on backyard composting.
- Household Hazardous Waste Collection

Disposal Import

- List counties able to import into transfer stations.

- No outside counties able to import waste into transfer facilities.

Disposal Export

- Counties where Cheboygan County solid waste may be disposed.

The SWPC then developed two solid waste management systems based from the above list. The two systems are:

I. Same Solid Waste Management System as presently available: Curbside collection through private agreements, volunteer recycling program, and disposal at Elk Run Sanitary Landfill, Montmorency-Oscoda-Alpena Sanitary Landfill, and Waste Management Landfill in Waters, MI.

II. Expanded Solid Waste Management System to include increased cost-effectiveness of collection services, high priority placed on implementing a coordinated county-wide recycling program with Emmet County and/or a regional processing facility, annual household hazardous waste collection, and primary and contingency disposal at Elk Run Sanitary Landfill in Presque Isle County, Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County, and Waste Management Inc. Landfill in Crawford County.

The following provides a detailed description of each of the alternatives.

ALTERNATIVE 1: SAME SOLID WASTE SYSTEM: COLLECTION THROUGH PRIVATE AGREEMENTS, RECYCLING PROGRAM ON A VOLUNTEER BASIS AND DISPOSAL AT THE ELK RUN SANITARY LANDFILL IN PRESQUE ISLE COUNTY, MONTMORENCY-OSCODA-ALPENA SANITARY LANDFILL IN MONTMORENCY COUNTY, AND THE WASTE MANAGEMENT SANITARY LANDFILL IN CRAWFORD COUNTY.

Collection of solid waste would continue to be private agreements between residents and hauling firm. Annual clean-up days would continue to be provided. Resource recovery efforts would continue to be through volunteer programs with no coordination throughout county. Composting operations (City of Cheboygan) would continue at its basic level. Disposal options would continue to be at Elk Run Sanitary Landfill in Presque Isle County, Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County, and Waste Management Inc. Landfill in Crawford County.

Technical Feasibility
The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. Recycling and composting are also both proven to be technically feasible.

Economic Feasibility
This alternative would require no additional revenues for solid waste management. However, measures would not be taken to reduce future costs through waste reduction efforts, volume based pricing, etc.

Access to Land
Land is available at the three disposal sites to meet future expansion needs.

Access to Transportation
Existing transportation routes will be utilized for solid waste delivery to the landfills.

Effects on Energy
Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also require energy to transport to the site and energy to mechanically cover the materials daily. Some energy is conserved by utilizing the existing transfer stations in the more rural areas.

Environmental Impacts
Since this alternative utilizes existing disposal sites, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations.

Maintaining the existing solid waste management system will not increase environmentally responsible solid waste management. This alternative focuses on land disposal of solid waste rather than reducing waste landfilled through recycling, composting, and reuse.

Public Acceptability
Public acceptability will continue for this program, but will be limited due to minimal emphasis on resource recovery programs.

Resource Conservation
Minimal conservation of natural resources will occur through the existing volunteer recycling program.,

Waste Reduction
As educational efforts will be limited, it is likely this alternative will not result in significant waste reduction.

Pollution Prevention
Pollution prevention efforts will be minimal through this alternative.

Resource Recovery
Resource recovery efforts will be minimal through this alternative.

Ultimate Disposal Area Uses
It is anticipated that the three landfills will ultimately be utilized for recreational purposes.

Institutional Arrangements
Municipalities will continue to be responsible for township transfer stations, and the City of Cheboygan will continue to operate the City's composting program. No new institutional arrangements would be necessary with this alternative.

ALTERNATIVE 2: COLLECTION THROUGH PRIVATE AGREEMENTS, INCREASED EMPHASIS ON RESOURCE RECOVERY INCLUDING IMPLEMENTATION OF A COUNTY-WIDE RECYCLING PROGRAM IN COORDINATION WITH EMMET COUNTY AND /OR A REGIONAL RECYCLING INITIATIVE, DISPOSAL AT THE ELK RUN SANITARY LANDFILL IN PRESQUE ISLE COUNTY, MONTMORENCY-OSCODA-ALPENA SANITARY LANDFILL IN MONTMORENCY COUNTY, AND THE WASTE MANAGEMENT SANITARY LANDFILL IN CRAWFORD COUNTY.

Collection of solid waste would continue to be through private agreements between residents and hauling firm for door to door pick-up, as well as drop-off at existing transfer stations located throughout the county. Annual clean-up days would continue to be provided. Resource recovery efforts would be emphasized with the development and implementation of a county-wide recycling program in coordination with Emmet County and/or a regional recycling initiative. An annual household hazardous waste collection program will be developed to reduce the amount of hazardous materials landfilled. Composting opportunities would be enhanced through improving existing City operation, creating new sites, and promoting backyard composting in rural areas. Disposal options would continue to be at Elk Run Sanitary Landfill in Presque Isle County, Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County, and Waste Management Inc. Landfill in Crawford County.

Technical Feasibility
The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. Recycling and composting are also both proven to be technically feasible.

Economic Feasibility
This alternative would require additional revenues for solid waste management. Funding is necessary for implementation of the recycling program, additional composting sites and educational efforts.

Access to Land
Land is available at the three disposal sites to meet future expansion needs.

Access to Transportation
Existing transportation routes will be utilized for solid waste delivery to the landfills.

Effects on Energy
Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also require energy to transport to the site and energy to mechanically cover the materials daily. Some energy is conserved by utilizing the existing transfer stations in the more rural areas.

Environmental Impacts
Since this alternative utilizes existing disposal sites, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations.

Improving the existing solid waste management system through resource recovery efforts will decrease environmental impacts of land disposal by reducing the amount of solid waste disposed of each year.

Public Acceptability
Public acceptability is expected to be high for this system, as it provides for recycling opportunities.

Resource Conservation
Conservation of natural resources will occur through the development and implementation of recycling, and composting systems.

Waste Reduction
Educational efforts through the resource recovery program will include emphasis on waste reduction.

Pollution Prevention
Pollution prevention efforts will be increased through the implementation of a recycling program and household hazardous waste collection program.

Resource Recovery
Resource recovery efforts will be increased and emphasized through this alternative.

Ultimate Disposal Area Uses
It is anticipated that the three landfills will ultimately be utilized for recreational purposes.

Institutional Arrangements
Municipalities will continue to be responsible for township transfer stations, and the City of Cheboygan will continue to operate the City's composting program. New institutional arrangements will be necessary with Emmet County for the implementation of the coordinated recycling program and household hazardous waste collection program.

THE SELECTED SOLID WASTE MANAGEMENT SYSTEM

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

Selection of the solid waste management system was based on the system that would provide for improved management of solid waste through resource recovery opportunities, competitive market place for solid waste disposal services, and would be cost-effective and efficient for the residents of Cheboygan County.

The selected solid waste management system is Alternative Two which involves the development and implementation of a county-wide resource recovery program and the utilization of the Elk Run Sanitary Landfill in Presque Isle County, Montmorency -Oscoda-Alpena Sanitary Landfill in Montmorency County, and the Waste Management Sanitary Landfill in Crawford County.

Collection of solid waste will continue through private agreements between individuals and waste hauling firms. Townships may continue at their discretion to provide clean-up days for large item disposal and to discourage illegal disposal.

Resource recovery efforts will involve the development and implementation of a county –wide recycling program, enhancement of the composting system, and development of an annual household hazardous waste collection program. The recycling program will likely be in coordination with Emmet County and/or a regional recycling initiative and may involve the placement of compartmentalized containers in strategic locations throughout the county. The containers could then be transported to the Emmet County Recycling Center and /or a regional recycling facility for central processing and marketing. Resource recovery efforts will also involve establishing a household and agricultural hazardous waste collection day. The existing composting facility in the City of Cheboygan will be enhanced, new sites will be developed as determined necessary, and educational efforts will emphasize backyard composting techniques for those residing in rural areas of the county.

Disposal of solid waste will be at Elk Run Sanitary Landfill in Presque Isle County, Montmorency - Oscoda-Alpena Sanitary Landfill in Montmorency County, and the Waste Management Sanitary Landfill in Crawford County.

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

Exporting County	Importing County	Facility Name[1]	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions[2]
Emmet	Cheboygan	Waste Management, Inc. Type A Transfer Station	100%	100%	
Presque Isle	Cheboygan	Waste Management, Inc. Type A Transfer Station	100%	100%	
Mackinaw	Cheboygan	Waste Management, Inc. Type A Transfer Station	100%	100%	
Charlevoix	Cheboygan	Waste Management, Inc. Type A Transfer Station	100%	100%	

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

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

SELECTED SYSTEM

If a new solid waste disposal area is constructed and operating in the future in the County, then disposal of solid waste generated by the EXPORTING COUNTY is authorized by the IMPORTING COUNTY up to the AUTHORIZED QUANTITY according to the AUTHORIZED CONDITIONS in Table 1-B.

Table 1-B

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

Exporting County	**Importing County**	**Facility Name[1]**	**Authorized Quantity/ Daily**	**Authorized Quantity/ Annual**	**Authorized Conditions[2]**
Presque Isle	Cheboygan	NA	NA	NA	
Charlevoix	Cheboygan	NA	NA	NA	
Crawford	Cheboygan	NA	NA	NA	
Montmorency	Cheboygan	NA	NA	NA	

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.

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]
Cheboygan	Crawford	Waste Mgt., Inc. Sanitary Landfill	100%	100%	P *
Cheboygan	Montmorency	Montmorency-Oscoda-Alpena Sanitary Landfill	100%	100%	P *
Cheboygan	Presque Isle	Elk Run Sanitary Landfill	100%	100%	P *
Cheboygan	Emmet	Type A Transfer Station	100%	100%	P *

* See Attachment for Definition of Primary and Contingency

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

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

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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[1]	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions[2]
Cheboygan	**Charlevoix**	**NA**	**NA**	**NA**	
Cheboygan	**Emmet**	**NA**	**NA**	**NA**	

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.

SOLID WASTE DISPOSAL AREAS

The following identifies the names of existing disposal areas which may 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:
Montmorency-Oscoda –Alpena Sanitary Landfill

Waste Management, Inc. Landfill ,Waters, MI

Elk Run Sanitary Landfill , Presque Isle County.

Type A Transfer Facility:
Waste Management Type A Transfer Facility, City of Cheboygan
Emmet County Type A Transfer Facility

Type B Transfer Facility:
Benton Township Type B Transfer Station
Burt Township Type B Transfer Stations (East & West)
Forest Township Type B Transfer Station
Inverness Township Type B Transfer Station
Koehler Township Type B Transfer Station
Waverly Township Type B Transfer Station
Wilmot Township Type B Transfer Station

Type III Landfill:
NA

Processing Plant:
Emmet County Recycling Center

Incinerator:
NA

Waste Piles:
NA

Waste-to-Energy Incinerator:
NA

Other:
None

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 Sanitary Landfill
Facility Name: Montmorency-Oscoda-Alpena Sanitary Landfill

County: Montmorency Location: Town: 29N Range: 3E Section(s): 6
Map identifying location included in Attachment Section: Yes

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

Owner: Publicly owned by Montmorency, Oscoda, and Alpena Counties

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

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

Site Size:

Total area of facility property:	80	acres [1]
Total area sited for use:	80	acres
Total area permitted:	80	acres
Operating:	3-4	acres
Not excavated:	37-40	acres

Current capacity:	3,500,000	yds3
Estimated lifetime:	30	years
Estimated days open per year:	310	days
Estimated yearly disposal volume:	145,000	yds3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	Will be adding recovery in future	
Waste-to-energy incinerators:	NA	megawatts

[1] Currently in the process of obtaining a construction permit for a new cell
NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill
Facility Name: Waste Management Inc. of Waters

County: Crawford Location: Town: 28 N Range: 8 E Section(s): 4

Map identifying location included in Attachment Section: Yes

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

Owner: Waste Management Inc.

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

* Explanation of special wastes, including a specific list and/or conditions:
Contaminated soils, non-friable materials.

Site Size:

Total area of facility property:	252.2	acres
Total area sited for use:	252.2	acres
Total area permitted:	79.07	acres
Operating:	9.7	acres
Not excavated:	64.87	acres

Current capacity:	8.2 million	yds3
Estimated lifetime:	+ 20	years
Estimated days open per year:	313	days
Estimated yearly disposal volume:	185,000-200,000	yds3

Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type II Sanitary Landfill
Facility Name: Elk Run Sanitary Landfill

County: Presque Isle Location Town: T33N Range: R2E Section(s): NE ¼ of 5

Map identifying location included in Attachment Section: Yes

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

Owner: : Republic, Inc.

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

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

Site Size:

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

Current capacity:	3, 400,000	yds3
Estimated lifetime:	35	years
Estimated days open per year:	52	days – will be open 1 day/week - 50 yds3/day
Estimated yearly disposal volume:	5,000	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station
Facility Name: Waste Management Transfer Station- City of Cheboygan

County: Cheboygan Location Town: T33N Range: R2E Section(s): NE ¼ of 5

Map identifying location included in Attachment Section: Yes

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 Sanitary Landfill, Inc., Crawford County
Owner: Waste Management, Inc.

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

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

Site Size:

Total area of facility property:		acres
Total area sited for use:		acres
Total area permitted:		acres
Operating:		acres
Not excavated:		acres
Current capacity:		yds3
Estimated lifetime:		
Estimated days open per year:	300	
Estimated yearly disposal volume:	56,628	yds3/year

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type A Transfer Station

Facility Name: Emmet County Type A Transfer Station

County: Emmet Location Town: T35N Range: R5W Section(s): NE ¼ of 5

Map identifying location included in Attachment Section: Yes

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 Sanitary Landfill, Inc., Crawford County

Owner: Emmet County

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, closure pending		special wastes *
			other:

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

Site Size:

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

Current capacity:		yds3
Estimated lifetime:		
Estimated days open per year:	300	
Estimated yearly disposal volume: (if applicable)	67,000	compacted cubic yards
Annual energy production:		
Landfill gas recovery projects:	NA	megawatts
Waste-to-energy incinerators:	NA	megawatts

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Benton Township
County: Cheboygan Location Town: 37N Range: 1E Section(s): 32

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Benton Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Burt Township
County: Cheboygan Location Town: T36N Range: R3W Section(s): 20

Map identifying location included in Attachment Section: Yes

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, Inc., Crawford County

Owner: Burt Township

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

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

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

Current capacity: yds3
Estimated lifetime:
Estimated days open per year:
Estimated yearly disposal volume: yds3/month - minimal

(if applicable)
Annual energy production:
Landfill gas recovery projects: NA megawatts
Waste-to-energy incinerators: NA megawatts

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Burt Township
County: Cheboygan Location Town: T36N Range: R3W Section(s): 12

Map identifying location included in Attachment Section: Yes

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, Inc., Crawford County

Owner: Burt Township

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

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

Site Size:

Total area of facility property:	acres
Total area sited for use:	acres
Total area permitted:	acres
Operating:	acres
Not excavated:	acres
Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Forest Township
County: Cheboygan Location Town: T35N Range: R1E Section(s): 10

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Forest Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Inverness Township
County: Cheboygan Location Town: T37N Range: R2W Section(s): 21

Map identifying location included in Attachment Section: Yes

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 Inc, Crawford County

Owner: Inverness Township

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

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

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

Current capacity: yds3
Estimated lifetime:
Estimated days open per year:
Estimated yearly disposal volume: yds3/month - minimal

(if applicable)
Annual energy production:
Landfill gas recovery projects: NA megawatts
Waste-to-energy incinerators: NA megawatts

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Koehler Township
County: Cheboygan Location Town: T35N Range: R1E Section(s): 10

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Koehler Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Waverly Township
County: Cheboygan Location Town: T35N Range: 12E Section(s): 25

Map identifying location included in Attachment Section: Yes

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 Inc., Crawford County

Owner: Waverly Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

FACILITY DESCRIPTIONS

Facility Type: Type B Transfer Station
Facility Name: Wilmot Township
County: Cheboygan Location Town: T33N Range: R3W Section(s): 11

Map identifying location included in Attachment Section: Yes

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 Inc. Crawford county

Owner: Wilmot Township

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

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

Site Size:

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

Current capacity:	yds3
Estimated lifetime:	
Estimated days open per year:	
Estimated yearly disposal volume:	yds3/month - minimal

(if applicable)
Annual energy production:

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

NA -- Not Applicable

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION:

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

Solid waste will continue to be collected by private haulers. Currently, Waste Management, Inc. is the only hauling waste firm servicing the entire county. Increased competitive services will be encouraged during this planning period.

Transfer stations may continue to be an integral component of the waste management system as long as it continues to be affordable for the townships. The Waste Management, Inc. Type A Transfer Station will continued to be utilized, in addition the Emmet County Type A Station may be used as a drop off site for refuse haulers and the general public. Existing Type B Transfer Stations will continue to be operated (as long as it is affordable) as drop off sites for applicable township resident's waste.

Existing transportation routes will continue to be utilized to transport solid waste to the landfills. The major roads utilized are I-75, M-68, M-32 and M-33.

RESOURCE CONSERVATION EFFORTS:

The following describes the selected systems 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**		
	Current	**5th yr**	**10th yr**
Recycling	600	968	2,000
Composting		312	641

Cheboygan County is committed to resource conservation efforts to reduce the overall dependency on landfilling. Resource conservation efforts will involve the implementation of a countywide recycling program, enhancement of the existing composting program, and the initiation of a comprehensive education program.

Cheboygan County's Recycling Program will initially involve the utilization of compartmentalized containers strategically located in the county and hauled to Emmet County's processing facility for baling and shipment. If a regional recycling facility is constructed in the I-75 corridor area, then consideration may be given to processing materials at the facility. Financing mechanisms are currently being explored to fund capital and operational costs of the recycling system. These include: a millage, surcharge on solid waste, and user fees. Leaf pick –up of municipal yard waste currently is being accomplished through the City of Cheboygan. Processing for compost is being done at a minimal level. Increasing the utilization of the existing finished product will be pursued as well as exploring the feasibility of expanding the current operations. Education of backyard composting methods will be emphasized for the rural component of the county.

The use of recycled products is paramount to increasing the demand and resultant markets for recycled products. Cheboygan County will analyze the feasibility of procurement of recycled products. Joint purchasing between county organizations and departments will be explored as a means of making it locally affordable.

Public Education is a key component of the program. Public education will be accomplished in coordination with municipalities, MSU Extension, Conservation District, lake associations, tip of the Mitt Watershed Council, Natural Resource Conservation Service, Health Department, NEMCOG, and other area, organizations. A committee will be established which, along with environmental groups, will be responsible for developing an organizational framework from which educational information will be disseminated to the public.

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. Documentation explaining achievements of implemented programs or expected results of proposed programs is attached.

Technique Description	Est. Air Space Conserved Yds^3/Yr		
	Current	5 th yr	10 th yr
Recycling	1,800	2,904	5,964
Composting		936	1,923

Recycling of materials will likely be conducted by utilizing a system involving a central processing facility with compartmentalized containers strategically located throughout the county. The majority of the recyclable materials will be dropped off by customers either at any of the drop-off sites in the county. The containers will be picked up and brought to a Central Processing Facility for processing and shipping. An educational program will be provided to increase the awareness of the program and to encourage participation and procurement of recycled products.

Composting efforts will involve the enhancement of the current City of Cheboygan program and the promotion of backyard composting techniques. Additional composting sites will be pursued to service areas in need of a disposal alternative.

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 Portion of Wastestream

Material	%	2005	5% Goal	2010	10% Goal
Paper	40	12,473 T/Yr	624 T/Yr	12,825 T/Yr	1,283 T/Yr
Plastics	10	3,118 T/Yr	156 T/Yr	3,206 T/Yr	321 T/Yr
Glass	5	1,559 T/Yr	78 T/Yr	1,603 T/Yr	160 T/Yr
Metals	6	1,870 T/Yr	94 T/Yr	1,924 T/Yr	192 T/Yr
Aluminum	1	312 T/Yr	16 T/Yr	321 T/Yr	32 T/Yr

Composting:

	2005	25% Goal	2010	50% Goal
4% of Wastestream	1,247 T/Yr	312 T/Yr	1,283 T/Yr	641 T/Yr

Education

5 Year Goal = 5% Reduction of solid waste through educational efforts.
10 Year Goal = 5% Reduction of solid waste through educational efforts.

The above chart shows the type and volume of material that potentially may be available for recycling and composting. The overall goal of the resource recovery program is to reduce dependency on landfills. Public support for the development and implementation of a resource recovery program in Cheboygan County is high. It is understood that in order to implement a program, financial support is necessary. The benefits of reducing the amount landfilled and the savings derived from the reuse and recycling of materials have direct social, environmental and economic benefits.

Impediments to recycling include the following:

* Long Distance to Markets
* Unavailable Markets
* Local Financial Support

It is anticipated that the above impediments to recycling can be overcome by increasing the volume of materials. This can be accomplished through the development of a multi-county approach. In addition, the program will strive to achieve a high quality, dependable product. This will attract long term relationships with markets dependant on volume and quality recyclable materials.

Elimination of household hazardous materials in the waste stream is a high priority for Cheboygan County. In coordination with the recycling program, a battery disposal program will be pursued. A household hazardous waste day will be explored in coordination with adjacent counties. Funding mechanisms will be researched for program implementation.

_X_ Recycling programs within the County are feasible. Details of existing and planned program are included on the following pages.

___ Recycling programs for the County have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:

_X_ Composting programs within the County are feasible. Details of existing and planned programs are included on the following pages.

___ Composting programs for the County have been evaluated and it has been determined that it is not feasible to conduct any programs because of the following:

X Programs for source separation of potentially hazardous materials are feasible and details are included on the following pages.

___ Separation of potentially hazardous materials from the County's waste stream has been evaluated and it has been determined that it is not feasible to conduct any separation programs because of the following:

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, the tables on pages III-18, 19, & 20 list the existing recycling, composting, and source separation of hazardous materials programs that are currently active in the County and which will be continued as part of this Plan. The second group of three tables on pages III-21, 22, & 23 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.

Various recycling programs were reviewed prior to the selection of the selected program. The Solid Waste Planning Committee held several discussions on the development of a recycling program for the county and toured the Emmet County Recycling Center. Meetings were also held with the Emmet County Department of Public Works Director to discuss the potential for processing Cheboygan County's recyclable materials at the Emmet County facility.

After reviewing options, it was decided to develop a program initially utilizing the Emmet County Recycling Center for material processing. If a regional recycling facility is located within the I-75 corridor, consideration may then be given to utilize that facility for material processing. Drop-off sites will be established in key locations throughout the county, most likely at the existing transfer facilities. Collection of the containers will be conducted on a weekly or bi-weekly basis and taken to the central processing site for baling and shipping. The transportation of the containers to the sites will be contracted with hauling firms.

Financing for expansion of the recycling program will be through a combination of local, grant and user fee funding. It is anticipated that local funds will be generated from a millage or surcharge on the waste. Local initiatives will also be pursued from donations (such as adopt a container program) and business and industry support. Grant funding from State and Federal sources will be pursued for equipment purchase.

The focus of the composting program will be to improve material processing of the existing program operated by the City of Cheboygan and to expand operations in areas of need. In the rural portions of the county backyard composting for leaf and yard waste disposal will be promoted through educational outreach.

TABLE III-1

EXISTING RECYCLING

Program Name	Service Area[1]	Public/ Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Waste Mgt., Inc	Cheboygan County	Private	c	w	c	5	5	5
	City Of Cheboygan	Private	d	d	B	5	5	5

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

---

1 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.
2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).
3 Identified by c = curbside; d = dropoff; o = onsite; and if other, explained.
4 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.
5 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 25.

TABLE III-2

EXISTING COMPOSTING

Program Name	Service Area[1]	Public/ Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
City of Cheboygan	City	Public	c	Sp, Fa	L	3	3	3

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

---

1 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.
2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).
3 Identified by c = curbside; d = dropoff; o = onsite; and if other, explained.
4 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.
5 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 25.

TABLE III-3

EXISTING SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

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

Program Name	Service Area[1]	Public/ Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation

NONE

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

---

1 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.
2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).
3 Identified by c = curbside; d = dropoff; o = onsite; and if other, explained.
4 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.
5 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 and 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

Program Name	Service Area[1]	Public/ Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Cheboygan County	Cheboygan County	Public	d	d	A B C D E F	1, 2	2	2

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

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1 Identified by where the program will be offered. If througout 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.
2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).
3 Identified by c = curbside; d = dropoff; o = onsite; and if other, explained.
4 Idendtified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.
5 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 25.

SELECTED SYSTEM

TABLE III-5

PROPOSED COMPOSTING

Program Name	Service Area[1]	Public/ Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Cheboygan County	Southern Cheboygan County (site to be determined)	Public	d	d=Sp, Su, Fa .	G,L	1,2	O= Township	O= Township

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

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1 Identified by where the program will be offered. If througout 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.
2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).
3 Identified by c = curbside; d = dropoff; o = onsite; and if other, explained.
4 Idendtified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.
5 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 25.

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS

Program Name	Service Area[1]	Public/ Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Cheboygan County	Cheboygan County	Public	d	Annual	AR A AN B2 C H P PS PH (To be Determined)	2	2	2

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

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1 Identified by where the program will be offered. If througout 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.
2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 24); 5 = Private Owner/Operator; 6 = Other (Identified on page 24).
3 Identified by c = curbside; d = dropoff; o = onsite; and if other, explained.
4 Idendtified by d = daily; w = weekly; b = biweekly; m = monthly; and if seasonal service also indicated by Sp = spring; Su = summer; Fa = fall; Wi = winter.
5 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 and 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:

Tip of the Mitt Watershed Council

Other:

City of Cheboygan: Municipal Composting Program

Health Department: Household Hazardous Waste Program, Education Dissemination

Cheboygan County: Recycling Program, Funding and Program Development

NRCS: Education Dissemination

MSU Extension: Education Dissemination

Townships: Annual Clean-up Days

Cheboygan County SCD: Education Dissemination

Emmet County Recycling Center

SELECTED SYSTEM

PROJECTED DIVERSION RATES:

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

Collected Material:	Projected Annual Tons Diverted:			Collected Material:	Projected Annual Tons Diverted		
	Current	5th Yr	10th Yr		Current	5th Yr	10th Yr
A. TOTAL PLASTICS:	0	156	321	G. GRASS AND LEAF	3	312	641
B. NEWSPAPER:				H. TOTAL WOOD WASTE:	3	312	641
C. CORRUGATED CONTAINERS:	520			I. CONSTRUCTION AND DEMOLITION:	-	-	-
D. TOTAL PAPER:	520	624	1283	J. FOOD AND FOOD PROCESSING:	-	-	-
E. TOTAL GLASS:	0	78	160	K. TIRES:	-	-	-
F. OTHER MATERIALS:				L. TOTAL METALS:	-	94	192
F1.				F3. Aluminum		16	32
F2.				F4.			

MARKET AVAILABILITY FOR COLLECTED MATERIALS:

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

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

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

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

Program Topic[1]	Delivery Medium[2]	Targeted Audience[3]	Program Provider[4]
1	R, T, N, O, F, E	p, b, i, s = K-12	EX, HD, DPA,
2	N, O, F, E	p	EX, HD, 0=Cheboygan County Soil Conservation District (SCD), Natural Resource Conservation Service (NRCS)
3	R, T, N, O, F	p	HD
4	N, O, F, E	p	EX, DPA, HD, 0=Cheboygan County, Cheboygan SCD, NRCS
5	N, O, F, E	p	EX, DPA, HD,0= Cheboygan County, Cheboygan SCD, NRCS

[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.

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
Recycling Program	
Program Development	2000 - 2001
Program Implementation	2001-Ongoing
Resource Conservation Education Program	
Recycling Education Program Development	2000-2001
Recycling Education Program Implementation	2001-Ongoing
Composting Education Program Development	2000-2001
Composting Education Program Implementation	2001-Ongoing
Household Hazardous Waste Education Program Development	2000-2001
Household Hazardous Waste Education Program Implementation	2001-Ongoing
Reduce, Reuse Education Program Development	2000-2001
Reduce, Reuse Education Program Implementation	2001-Ongoing
Household Hazardous Waste Disposal Program	
Program Development	2000-2001
Program Implementation	2001-Ongoing
Composting Program	
Program Development	2000-2001
Program Implementation	2001-Ongoing
Township Clean-up Day Program	
Program Development	2000-2001
Program Implementation	2001-Ongoing

SITING REVIEW PROCEDURES

I. AUTHORIZED DISPOSAL AREA TYPES

This Plan's Enforceable Program and process allows new disposal areas within the county. The following disposal areas are consistent with the Goals and Objectives of the County Solid Waste Plan and the implementation of the Selected Alternative. Disposal areas will be sited following the Plan's siting mechanism as provided for in this chapter as will any changes in type or expansions of any existing disposal area unless provided for elsewhere in this Plan.

A. Facilities included in this Plan:

The following facilities are consistent with the County Solid Waste Plan and as such are assumed to have been successful in meeting Part 1 of the two part Siting Criteria and Process that is described in the following section of the Plan. An application for such a facility must still be submitted for Part 2 of the two part Siting Criteria and Process Section.

A.1 Type II and Type III Sanitary Landfills
Construction of a Type II and/or Type III sanitary landfill is consistent with the intent of this Plan. However, final consistency determination will be made only after all application and siting criteria requirements are adhered to for further evaluation of the site.

A.2 Solid Waste Transfer Stations
Construction of Type A Transfer Stations are consistent with this plan. Type A transfer stations are required to adhere to the siting criteria requirements for further evaluation of the site.

B. Facilities Not included in this Plan:

A proposal for any other disposal area as defined in Part 115 of NREPA, i.e. incinerator, is not included in this Plan and, thus, is not consistent with this Plan. Should such an application be submitted this determination shall be made at the conclusion of Part 1 of the two part Siting Criteria and Process that is described in the following section of the Plan.

C. Plan Amendment for a Facility Not Included in this Plan

If a facility is proposed which is not consistent with this Plan, than the facility proposer can request to amend the County Plan. Plan amendments follow the same procedures for adopting this Plan, according to Part 115 of NREPA. A request to amend the Plan should be made to the Cheboygan County Board of Commissioners. The County Board will prepare a budget of anticipated costs to amend the Plan. Once adopted by the Board of Commissioners, the total amount of the budget shall be the fee charged to process the Plan amendment.

II. SITING CRITERIA AND PROCESS

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

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

A.1 Initiating a Facility Siting Evaluation Request:

To initiate the Siting Evaluation Process the applicant may submit 15 copies of the facility siting proposal to:

Cheboygan County Controller's Office
Cheboygan County Building
PO Box 70
Cheboygan, MI 49721
(231) 627-8855

The office will serve as the administrator for the County in the Siting Evaluation and Review Process and will be referred to as the "Agency."

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

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

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

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

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

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

3: Name, address, and telephone number for;

a) The applicant and its parent company, if any:
b) Property owner of the site (if different)
c) Operator of the proposed disposal area (if different);
d) Designer/Engineer of the proposed disposal area; and
e) Designated contact for the Siting Review Process.

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

5. General site location(s) map. The general site location map(s) shall include more than one drawing where required for clarity. One set of the general site location map(s) shall be drawn at a scale and of such accuracy that one can readily interpret the general site location map(s). Another set of the general site location map(s) shall be reduced so each sheet shall fit on 81/2 by 11 inch or 81/2 by 14 inch paper. Such general site location map(s) shall be designed and prepared by a registered professional architect, landscape architect, engineer, land surveyor, or community planner. The general site location map(s) shall include the following information:

a) The parcel(s), identified by parcel lines and location including dimensions, angles and size, correlated with the legal description of said parcel(s). Such site plan shall be designed and prepared be a registered professional architect, landscape architect, engineer, land surveyor, or community planner.

b) The scale, north point, boundary dimensions, topography (at least two (2) feet contour intervals), and existing natural features such as woodlots, streams, rivers, lakes, drainage and similar features.

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

1) Access roads to the site;
2) Proposed access point(s) to the site;
3) Location of any public use airports licensed by the bureau of Aeronautics, of the Michigan Department of Transportation, that are within ten thousand feet of the proposed active disposal area;
4) Location of public and private water wells within one mile of the proposed active disposal area and showing established / approved wellhead protection areas; and
5) Residences, commercial establishments, industries, institutions including schools, churches, hospitals, and historic or archaeological sites within one mile of the proposed active disposal area.

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

6. A detailed site plan or plans describing, 1) the site as it exists, and 2) the site in use as a solid waste disposal area. The site plan shall include more than one drawing where required by clarity. One set of the site plans shall be drawn at a scale not to be greater than one (1) inch equals twenty (20) feet, nor less than one (1) inch equals two hundred (200) feet, and of such accuracy one can readily interpret the site plan. Another set of the site plan shall be reduced so each sheet shall fit on 8 ½ by 11 inch, or 8 ½ by 14 inch paper. Such site plan shall be designed and prepared by a registered professional architect, landscape architect, engineer, land surveyor, or community planner. The site plan shall contain the following information:

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

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

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

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

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

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

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

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

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

c) Location and boundary dimensions of existing man-made features within the boundaries of the site including buildings, structures, high tension towers, pipelines, water wells,

existing utilities including water and sewer lines, excavations, bridges, culverts, drains, easements and any known existing contamination.

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

i) Solid waste processing and disposal areas;

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

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

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

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

vi) Connections to existing utilities and proposed extensions thereof;

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

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

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

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

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

e) Conceptual engineering plans for construction of the facility.

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

a) Name and type of solid waste facility.

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

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

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

i) Well permit,
ii) Type II water supply permit,
iii) Type III water supply permit
iv) On site sewage disposal permit,

v) Soil Erosion permit,
vi) Land division or subdivision approval,
vii) Waste disposal or storage or monitor permits(s),
viii) Sand Dune mining permit,
ix) Permit to cut forest products,
x) Forestry use or special use permit,
xi) Easements for utilities and public agencies (on state or federal lands),
xii) Dam construction permit,
xiii) Certificate of Public Convenience and necessity for pipelines,
xiv) Air quality installation permit, operating permit,
xv) National Pollutant discharge elimination system permit,
xvi) Groundwater discharge permit,
xvii) Wastewater collection and treatment facilities construction permit,
xviii) Great Lakes Shorelands permit and
xix) Inland Lakes and Streams permit,
xx) Wetlands permit

e) An inventory of public services (fire protection, sewer, water, sanitation, Cheboygan County Emergency Services/Response, quasi-public utility companies (gas, electric, telephone) showing:

1. Public services which are required by the solid waste facility,
2. Public services which exist to service the site of the solid waste facility.

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

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

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

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

E. <u>Step Two: Application Review – Engagement of Review Committee:</u> Upon receipt of an Application, the Agency shall notify the County Board of Commissioners (Board) who shall appoint the Solid Waste

Facility Sitting Committee (SWFSC) as described below. In the absence of an appointed SWFSC the County Board shall serve in its place.

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

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

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

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

i) The applicant;

ii) The owners of the property for which approval is being considered,

iii) The owners of any property within 300 feet of the boundary of the property for which approval is being considered, as shown by the latest equalization roll;

iv) All occupants of structures within 300 feet of the property in question. If the name of an occupant is not known, the term "occupant" may be used in the notice. Notification need not be given to more than one (1) occupant of a structure, except that, if a structure contains more than one (1) dwelling unit or spatial area owned or leased by different individuals, partnerships, businesses or organizations, one (1)_ occupant of each unit or spatial area shall receive notice. In the case of a single structure containing more than four (4) dwelling units or other distinct spatial areas owned or leased by different individuals, partnerships, businesses, or organizations, notice may be given to the manager or owner of the

structure who shall be requested to post the notice at the primary entrance to the structure;

v) The chief elected official of the municipality the site is proposed to be located;

vi) Members of the SWFSC;

vii) Any other notification required by the Michigan Open Meeting Act, P.A. 267 of 1976, as amended; and

viii) Any other notification required by Part 115 of NREPA.

b) The agenda shall indicate:

i) The applicant;

ii) The property which is the subject of the application;

iii) The date, time and location of the first SWFSC meeting;

iv) The order of business for the meeting with action items identified; and

v) A short overview of the Site Review Process.

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

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

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

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

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

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

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

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

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

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

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

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

c) A meeting packet, containing a copy of the Agency's written review of the Application, including preliminary findings and scoring of the Application against the Minimum Standard Siting Criteria, shall accompany the agenda for the following recipients of the agenda:
   i) The applicant;
   ii) The owners of the property for which approval is being considered;
   iii) The owners of all property within 300 feet of the boundary of the property for which approval is being considered, as shown by the latest equalization roll;
   iv) All occupants of structures within 300 feet of the property in question. If the name of an occupant is not known, the term "occupant" may be used in the notice. Notification need not be given to more than one (1) occupant of a structure, except that, if a structure contains more than one (1) dwelling unit or

spatial area owned or leased by different individuals, partnerships, businesses or organizations, one (1) occupant of each unit or spatial area shall receive notice. In the case of a single structure containing more than four (4) dwelling units or other distinct spatial areas owned or leased by different individuals, partnerships, businesses, or organizations, notice may be given to the manager or owner of the structure who shall be requested to post the notice at the primary entrance to the structure;

v) The chief elected official of the municipality the site is proposed to be located in;

vi) Members of the SWFSC; and

vii) Any individuals that have made a request in writing to the Agency to receive the meeting packet.

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

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

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

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

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

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

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

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

ATTACHMENT A to PLAN SITING MECHANISM
Definition of the Facility Siting Committee

The SWFSC will consist of the following membership:

- 1 Person representing environmental concerns
- 1 Person representing the County Soil Conservation Service
- 1 Person representing the County Board of Commissioners
- 1 Person representing the County Panning Commission
- 1 Person representing the County Road Commission
- 1 Person representing the Regional Solid Waste Planning Agency
- 2 Persons representing the municipality in which the facility site is proposed including the chief elected official or designee

- 2 Persons from any municipality located within three (3) miles of the active work area of the proposed site including the chief elected official or the designee, and another representative from that municipality. Only one (1) of these persons will be a voting member, the other will be an ex-officio member. In the event that more than one municipality is located within three (3) miles of the active work area of the proposed site, then these municipalities will together choose only one person to be a voting member to represent these municipalities, and each municipality will designate one (1) ex-officio member.

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

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

The SWFSC will be dissolved when either the Application is deemed inconsistent with the Plan, or 10 days after the MDEQ issues the facility an operating License to the Applicant.

Attachment B to Plan Siting Mechanism
Minimum Standard Siting Criteria

To be found consistent with the Plan, a proposed solid waste disposal area must comply with all the siting criteria and requirements describe in subparts **A** to **O** below.

	YES	NO	CRITERION (See detailed descriptions following checklist)
A			Site Ownership
B			Distance from property lines, roads, lakes and streams
C			Distance of work area from domiciles or public schools
D			Distance from a licensed airport runway
E			Floodplain restrictions on facility location
F			Wetland restrictions on facility location
G			Farmland and Open Space Preservation restriction on facility location
H			Sensitive environmental area restrictions on facility location
I			Groundwater recharge restrictions on facility location
J			Designated historic or archaeological area restrictions on facility location
K			Restrictions of expansion onto Federally or State owned land
L			Zoning restrictions on facility location
M			Owner agreement for future pollution prevention, recycling, etc.
N			Road upgrade/ maintenance restrictions serving the facility
O			Distance from water wells serving a dwelling
P			Distance from dwellings, hospitals, medical care and foster care facilities
Q			Land conservancy restrictions on site
R			Distance from schools and educational establishments
S			Distance from certain recreational facilities
T			Distance from specified types of natural resource lands
U			Distance from certain additional recreational lands
V			Design incorporates certain setback requirements w/signed statement
W			Analysis submitted documenting availability of required public services
X			Signed statement to abide by certain regulatory requirements

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

B. The active work area for a new facility or expansion of an existing facility shall not be located closer than 1,000 feet from adjacent property lines, road rights-of-way, lakes, and perennial streams.

C. The active work area for a new disposal facility shall not be located closer than 500 feet from domiciles or public schools existing at the time of submission of the application.

D. A sanitary landfill shall not be constructed within 10,000 feet of a licensed airport runway.

E. A facility shall not be located in a 100 year floodplain as defined by Rule 323.311 of the administrative rules of Part 31, Water Resources Protection, of Act 451.

F. A facility shall not be located in a wetland regulated by Part 303, Wetlands Protection, of Act 451, unless a permit is issued.

G. A facility shall not be constructed in lands enrolled under Part 361, Farmland and Open Space Preservation , of Act 451.

H. A facility shall not be located in a sensitive environmental area (wetlands, steep slopes exceeding 15 %, high risk erosion areas) as defined by 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.

I. A facility shall not be located in an area of groundwater recharge as defined by the DEQ or in a designated Wellhead Protection Area as approved by the DEQ.

J. A facility shall not be located in a designated historic or archaeological area defined by the state historical preservation officer.

K. A facility shall not be located or permitted to expand on land owned by the United States of America or the State of Michigan. Disposal areas may be located on State land only if both of the following conditions are met:

a. Thorough investigation and evaluation of the proposed site by the facility developer indicates, to the satisfaction of the DEQ, that the site is suitable for such use.

b. The State determines that the land may be released for landfill purposes and the facility developer acquires the property in fee title from the State in accordance with state requirements for such acquisition.

L. Facilities may only be located on property zoned as agricultural, industrial, or commercial at the time the facility developer applies to the county for a determination of consistency under the Plan. Facilities may be located on unzoned property, but may not be located on property zoned residential.

M. The owner and operator of a facility shall agree to participate with the county on all current and future pollution prevention, recycling and composting activities. The owner and operator will provide a written statement of this agreement.

N. A Facility shall be located on a paved, all weather "Class A" road. If a facility is not on such a road, the developer shall agree to provide for upgrading and/or maintenance of the road serving the facility. The developer will provide a written statement of this agreement.

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

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

Q. No part of the site and respective parcel(s) is located within or less than 300 feet from lands which are held by a land conservancy or which have development restrictions held by a land

conservancy, either of which were in existence on the date the disposal area application was found complete.

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

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

1. Snowmobile and all terrain vehicle trails which are marked and signed and receive care, grooming with public funds;
2. Horse, bicycle, hiking and ski trails which are marked and signed and receive care, grooming with public funds;
3. Abandoned rail road right-of-ways when owned by a railroad company or a public agency;
4. The parcel boundary of state game area;
5. The parcel boundary of municipal and county parks with recreation facility improvements;
6. A national park or recreation area designated by the U.S. Department of Interior;
7. A national scenic river designated by the U.S. Department of Interior; and
8. A special interest area as designated by the U.S. Forest Service.

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

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

1. The parcel boundary of a state park;
2. The licensed area of public and private campgrounds licensed by the District Health Department;
3. The parcel boundary of day, summer and retreat camps;

4. Federally designated wild and scenic river corridors;

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

      ii. Shall consist of the following for any side of the parcel that is adjacent to an industrial or commercial zoned area:

         - A buffer area setback of fifty (50) feet, or
         - A berm four (4) feet or more high, not slped greater than one (1) vertical for each of the same two units horizontal, or
         - A solid wall four (4) feet or more, in height, or
         - A proportionately adjusted combination of all the above.

      iii. Shall consist of the following for any side of the parcel that is adjacent to all other uses:

         - A buffer area setback of one hundred (100) feet, ore
         - A buffer area setback of fifty (50) feet followed by a berm four (4) feet or more high, not sloped great than (1) vertical for each of the same two units horizontal, or
         - A buffer area setback of twenty-five (25) feet followed by a solid wall four (4) feet or more, in height.

   c. No Service Access Area is required.

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

X. Applicant has submitted a written and signed statement that the disposal area will abide by and remain in compliance with any applicable part of the Michigan Subdivision Control Act, Michigan Soil Erosion and Sedimentation Control Act, Michigan Construction Code,

applicable state air and water pollution standards, local wellhead protection ordinances, applicable building codes, state and local health codes, local noise ordinances and local junk ordinances as determined with the advice of appropriate state and local officials and as specified in the Solid Waste Plan, Local Ordinances and Regulations Section. Submittal by the applicant of this signed statement is required to satisfy this criteria. The adequacy of the submittal will not be used to determine if this criteria has been satisfied.

SOLID WASTE MANAGEMENT COMPONENTS

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.

Cheboygan County Board of Commissioners

The Cheboygan County Board of Commissioners shall be responsible for the implementation and enforcement of the Cheboygan County Solid Waste Management Plan. The Cheboygan County Board of Commissioners may direct the Prosecutor to take such legal action as may be necessary to enforce the plan.

The Cheboygan County Board of Commissioners shall take such actions as necessary to secure funds to provide for the implementation and enforcement of the plan including, but not limited too, applying for federal, state and foundation grants, or other funding sources that may be available, including the levy of a special millage, or solid waste surcharge.

The Cheboygan County Board of Commissioners is also responsible for any legislative actions that may be necessary to implement the goals of the plan. This includes such as: flow control, recycling incentives, special hazardous waste collection, and related policy in harmony with the state statute.

Northeast Michigan Council of Governments (NEMCOG)

NEMCOG will continue to provide assistance for solid waste planning and implementation for the County Board of Commissioners, as funds are available. NEMCOG will assist with grant writing to secure the funds for plan implementation, upon request, and will continue to promote regional coordination with recycling and other resource recovery efforts. Updates on regional and statewide solid waste issues will also be provided. NEMCOG is the designated planning agency for plan update and amendments.

Cheboygan County Soil Conservation District

The Cheboygan County Soil Conservation Districts will provide technical assistance for public education, recycling, composting and natural resource conservation.

Natural Resource Conservation Service

The Natural Resource Conservation Service will assist with dissemination of information and literature regarding recycling, composting and household hazardous waste collection programs.

MSU Extension

MSU Extension will assist with public educational and promotional programs necessary for implementing various components of the plan, including recycling, composting and household hazardous waste collection programs. MSU Extension will assist with dissemination of information and literature designed to inform the pubic on matters related to recycling, resource recovery, and conservation.

*** Involvement is not limited to these groups.**

IDENTIFICATION OF RESPONSIBLE PARTIES

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

Resource Recovery Programs	Responsible Parties
Composting-	City of Cheboygan Private waste companies
Recycling-	Cheboygan County Private waste companies
Volume Reduction Techniques	Private waste companies
Collection Processes-	Private waste haulers
Transportation	Private waste haulers
Disposal Areas Processing Plant-	Emmet County Recycling Center
Transfer Stations-	Private waste companies Townships (at their discretion) Emmet County Transfer Station
Sanitary Landfills	Montmorency-Oscoda-Alpena Sanitary Landfill Elk Run Sanitary Landfill Waste Management, Inc. of Waters
Educational and Informational Programs:	Cheboygan County Health Department Cheboygan County Conservation District NRCS MSU Extension Tip of the Mitt Watershed Council

Documentation of acceptance of responsibilities is contained in Appendix D.

LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

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

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

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

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

Regulations meeting these qualifications may be adopted and implemented by the appropriate governmental unit without additional authorization from, or formal amendment to, the Solid Waste Management Plan. Allowable areas of local regulation include:

1. Certain ancillary construction details, such as landscaping and screening
2. Hours of operation
3. Noise, litter, odor and dust control
4. Operation records and reports
5. Facility security
6. Monitoring of wastes accepted and prohibited
7. Composting and recycling (ie volume based pricing ordinance, no burn ordinance)

CAPACITY CERTIFICATIONS

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

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

___ Ten years of disposal capacity has not been identified in this Plan. The County will annually submit capacity certifications to the DEQ by June 30 of each year on the form provided by DEQ. The County's process for determination of annual capacity and submission of the County's capacity certification is as follows:

The following table identifies landfill disposal sites, available air space, and usage rates which demonstrates that the County will have more than ten years of disposal capacity for the ten year planning period.

Disposal Area	Available Air Space (Gate CY)	Gate CY Delivered 1996/97	Landfill Life (in yrs) Based on 1996/97 Delivery Rates	Landfill Life (in yrs) based on 1996/97 Rates w/2% Growth
Montmorency-(MOASL)	3,500,000	89,155	62	50
Crawford County-Waste Mgt.	8,200,000	318,398	60	49
Elk Run Sanitary Landfill	3,400,000	69,794	77	62
Total	15,100,000	477,347	50	40

Available air space and delivery rates are based on information provided to NEMCOG from landfills or from the information provided to the State of Michigan.

Cheboygan County has more than ten years of capacity available for solid waste disposal. The Montmorency-Oscoda–Alpena Sanitary Landfill has a current capacity of 3,500,000 yds^3 and an estimated lifetime of 30 years. Additionally, the Waste Management, Inc. Landfill in Waters, has a current capacity of 8.2 million yds^3 and an estimated lifetime of more than 20 years, and the Elk Run Landfill has 3,400,000 yd3 and an estimated life of 77 years. Documentation that Cheboygan County has access to the disposal capacity at the Montmorency-Oscoda-Alpena Sanitary Landfill , the Waste Management, Inc. Landfill in Waters, and the Elk Run facility in Presque Isle County is contained in Attachment B.

APPENDIX A

ADDITIONAL INFORMATION

REGARDING THE

SELECTED

SYSTEM

APPENDIX A

EVALUATION OF RECYCLING AND COMPOSTING

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

Recycling and composting rate high in public acceptability. Volume reduction through recycling and composting can be achieved in Cheboygan County, however, with start-up costs for equipment and the status of current markets, subsidy for program success may be necessary. A recycling effort in coordination with the Emmet County Recycling Program and/or a regional recycling initiative was determined to be the most cost-effective means for initiating a county-wide program in Cheboygan County. This approach provides for a higher volume of materials to be processed at an existing facility, lower initial capital investments, and lower program operation and maintenance costs. In addition, the Emmet County Recycling program has a well proven track record for long term relationships with markets, as well as excellence in operating a highly successful recycling program. Costs for recycling materials utilizing the Emmet County facility will include processing charges, drop-off bins, and transportation of the containers. Cost savings for coordinating recycling with Emmet County include: capital and operating expenditures for a material recovery facility, labor, and administration.

Public support for increasing resource recovery within Cheboygan County is high. A survey to quantify the level of support will be conducted of Cheboygan County residents. The benefits of reducing the amount landfilled and the savings derived from the reuse and recycling of materials have direct social, environmental and economic benefits.

Impediments to recycling include the long distance required to transport goods to markets, the sometimes unavailable markets, and lack of local financial support. Several difficulties exist in developing a county-wide program in Cheboygan County. These include: high costs of transporting materials to the Emmet County Recycling Facility, lack of recycling equipment, and a funding mechanism for program support. It is anticipated that the above impediments to recycling can be overcome by initiating either a surcharge on waste generated in the county, an assessment per household, and/or a millage.

The technical feasibility of recycling is well proven. Public health concerns in regards to groundwater contamination and methane gas production will be reduced with increasing recycling, as less material will be landfilled. Recycling reduces the dependency on landfills, the environmental impacts associated with landfilling and the overall energy needed to produce products from raw materials.

Composting is a well proven means of disposing of yard wastes. Composting is the least costly and least energy intensive method of disposing of solid waste, especially in a rural region. Composting provides a reusable resource with economic value and can be implemented individually or on a county-wide basis. Public health impacts are minimized due to a reduction in the amount of waste being landfilled. Due to the reduction of wastes being landfilled, environmental health impacts at the landfill, such as leachate formation and potential ground water contamination, are minimized. Composting reduces the amount of energy required to transport and landfill yard wastes.

Composting in Cheboygan County will be accomplished by increasing the efficiency of the City of Cheboygan's composting facility, siting a new facility in Tuscarora Township for use by area lawn care providers and the general public, and by promoting backyard composting techniques for residents in the rural portions of the county.

APPENDIX A

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:

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

The following table provides an estimate of waste composition and volumes of the recyclable portion of the waste stream based on the 1980 NEMCOG Solid Waste Stream Assessment. The majority of the materials in the waste stream are available for recycling or composting, however, it is not presently feasible to recycle or compost the entire waste stream in Cheboygan County.

Material	% of waste stream	Amount of waste stream (tons/day)	Amount recycled 25% participation (tons/day)	Amount recycled 10 % participation (tons/day)
Paper	48%	40.0	10.0	4.0
Plastics	9.2%	7.6	1.9	0.8
Metals	6.6%	5.5	1.4	0.6
Glass	3.3%	2.7	0.7	0.3

Composting:

	2005	25% Goal	2010	50% Goal
4% of Waste stream	1,247 T/Yr	312 T/Yr	1,283 T/Yr	641 T/Yr

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.

Recycling Equipment Selection

Selection of the equipment that will be used in the proposed recycling program will be based on information gathered by the Cheboygan County Solid Waste Planning Committee. Different types of equipment that have been used successfully in rural programs are being reviewed. Equipment needs are being assessed and costs are being investigated. Recycling compartmentalized containers will be strategically located throughout the county, most likely at the existing transfer stations. Future recycling equipment selections will be made based on the growing needs of the program.

Recycling Drop-off Site Availability & Selection

The process used for selection of drop-off sites for the recycling program will involve an inventory of potential site locations, a detailed analysis of selected sites, and final determination of selected sites. Recycling drop-off sites will be selected based on convenience, accessibility, and willingness of landowners to allow containers on site. If it is determined that none of the selected sites are suitable, then the committee will investigate additional sites that could be utilized. Future recycling site location selections will be made based on the growing needs of the program.

APPENDIX 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:

Program Name:	pH Range	Heat Range	Other Parameter	Measurement Unit

Monitoring for these parameters at the City of Cheboygan composting site is not currently being conducted nor is it being recommended in future program development. The existing program operated by the City of Cheboygan will continue to be low tech, however, increased attention will be given to windrow piles, turning and the finished pile. Recommendations from the DEQ's guidebook: "Best Management Practices for Composting" will be used to increase the efficiency of the operations.

Proposed Programs:

Program Name	pH Range	Heat Range	Other Parameter	Measurement Unit

Monitoring program is not being proposed. The composting program proposed will involve increasing the efficiency and quality of the end-product of the City of Cheboygan's composting operations and will also include the establishment of new sites. The committee will complete a composting study which will identify potential sites, site needs, and startup costs. Recommendations from the DEQ's guidebook: "Best Management Practices for Composting" will be used to guide the development of new programs.

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.

The Cheboygan County Board of Commissioners is ultimately responsible for implementation of the Solid Waste Management Plan, as part of their duties as general governance. The Board of Commissioners will coordinate the solid waste implementation activities with local municipalities, agencies, organizations, and planning commissions. Additionally, the Board of Commissioners has charged the county and municipal planning commissions to be aware of any pertinent ordinances or approved land use plans within the county, and any pertinent restrictions or requirements contained in plans for air quality, water quality, or waste management which may be required to meet state or federal standards. Any county-level decisions affecting current or anticipated programs for solid waste management, air quality, water quality or land use planning will be made only after thorough consultation with the townships planning commissions.

The Cheboygan County Board of Commissioners, through intergovernmental agreements with municipalities will administer the selected solid waste management system that may include funding mechanisms, recycling program operations, service contracts, and county-wide ordinance.

APPENDIX A

COSTS & FUNDING:

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

System Component	Estimated Costs	Potential Funding Sources
Resource Conservation Efforts	$20,000	User Fees Community Foundations State Grant Programs Federal Grant Programs Inkind Sources
Recycling Program **Year One** Roll-off Bins (30yd3): 10 @ $6,000 Processing Cost: $6.75/yd Transportation Costs: $200/bin Processing and Transportation $ City: @ 52 wks = $21,000 Twps (9) @ $4,830 = $43,470	 **Approximate Cost: $124,470.00** $60,000 $64,470	 .2 mills = approx. $150,000 State and Federal Grants Donations Surcharge Foundations
Composting Program City of Cheboygan New Site Development Household Hazardous Waste Program	 Increased labor costs Varies depending on site selection Varies up to an estimate $10,000/day	 Inkind Municipalities User fee Millage User Fee
Volume Reduction Techniques	$5,000	Inkind Sources Community Foundations State Grant Programs Federal Grant Programs
Educational & Informational	$5,000-$30,000	Inkind Sources Community Foundations State Grant Programs Federal Grant Programs
Management Arrangements	Will be determined	Will be determined

Costs and funding sources for the recycling program are currently in the development stage. Funding sources to be explored will include: user fees, community foundations, and state and federal grant programs.

Local agencies will provide outreach activities through existing work activities. Material will be available at various offices, and disseminated through various newsletters. Funding will be sought through local foundations to assist with the costs of development and printing of educational materials.

APPENDIX A

EVALUATION SUMMARY OF THE SELECTED SYSTEM

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

Selection of the solid waste management system was based on which system was best for the residents of Cheboygan County. This alternative provides for primary and contingency solid waste disposal at the Montmorency- Oscoda - Alpena Sanitary Landfill in Atlanta, Waste Management, Inc. Sanitary Landfill in Waters, and Elk Run Sanitary Landfill in Onaway. Emphasis will be placed on reducing the dependency on landfills. Recycling and composting will be an integral component of this system and present recycling and composting programs will be improved and expanded. The current recycling program will be expanded to service residents throughout the county by coordinating efforts with Emmet County. Composting sites will be established in population centers and backyard composting programs will be promoted for the rest of the rural portions of the county. Household hazardous waste collection programs will be developed and implemented on an annual basis. Annual clean-up days for big items will be continued. Education will be a key component of the program emphasizing reduce, reuse, and recycle.

Technical Feasibility
The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. The technical feasibility of recycling and composting is well proven.

Economic Feasibility
The economic feasibility of implementing the resource recovery initiatives will require additional funds.

Access to Land
Between the three authorized landfills there is more than enough capacity and land for landfill expansion to serve Cheboygan County for the planning period.

Access to Transportation
Existing transportation routes will be utilized for solid waste delivery to the landfills.

Effects on Energy
Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also require energy to transport to the site and energy to mechanically cover the materials daily. Some energy will be conserved by utilizing transfer stations. Recycling of materials can reduce the

overall energy costs for production of goods. Energy savings will be realized by the recycling of materials.

Environmental Impacts

Since this alternative utilizes an existing site, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations. Recycling of materials will reduce the overall environmental impacts related to the manufacturing of products.

Public Acceptability

Public acceptability for this alternative is expected to be good since it will increase options for solid disposal locations by establishing additional transfer stations and provides for increased recycling and composting opportunities.

Conservation of Natural Resources

Conservation of natural resources will occur through expanding resource recovery programs.

Selection Process

The selected system was chosen by a majority vote of the Solid Waste Planning Committee.

APPENDIX A

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. Enhances current programs for recycling and composting.

2. Allows for coordination and program development with Emmet County recycling program.

3. Coordinates with existing agencies and organizations.

4. Provides a cost-effective means of providing increased services in recycling.

5. More household hazardous waste will be removed from the waste stream and less will be landfilled.

6. Reduces resource recovery costs for residents.

DISADVANTAGES:

1. Additional funds will be necessary to implement county wide recycling program

2. Additional funds will be necessary to enhance and add new composting facilities.

APPENDIX B

NON-SELECTED SYSTEMS

Before selecting the solid waste management system contained within this Plan update, the County developed and considered other alternative systems. The details of the non-selected systems are available for review in the County's repository. The following section provides a brief description of these non-selected systems and an explanation why they were not selected. Complete one evaluation summary for each non-selected alternative system.

SYSTEM COMPONENTS

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

RESOURCE CONSERVATION EFFORTS:

Recycling and composting operations currently in operation in Cheboygan County would continue at their present level of operation. The county would continue to hold annual clean-up days.

VOLUME REDUCTION TECHNIQUES:

Waste reduction would be encouraged through promoting and maintaining current recycling and composting at their present level of operation.

RESOURCE RECOVERY PROGRAMS:

Recycling and composting operations currently in operation in Cheboygan County would continue at their present level of operation. Household hazardous waste would not be collected in the counties.

COLLECTION PROCESSES:

Collection would be carried out by private haulers. Continue system of curbside collection and Type B Transfer Stations.

TRANSPORTATION:

Existing transportation routes to the authorized landfills would be utilized.

DISPOSAL AREAS:

This alternative utilizes the following landfills for primary and contingency disposal: Montmorency-Oscoda - Alpena Sanitary Landfill in Atlanta, Waste Management, Inc. Sanitary Landfill in Waters, Elk Run Sanitary Landfill.

INSTITUTIONAL ARRANGEMENTS:

None

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Educational efforts would involve utilizing existing agencies and organizations for information dissemination.

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

Costs associated with alternative would be minimal as it would utilized already existing programs and agencies. Existing agencies would be utilized for dissemination of educational materials.

EVALUATION SUMMARY OF NON-SELECTED SYSTEM

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

ALTERNATIVE 1: SAME SOLID WASTE SYSTEM : COLLECTION THROUGH PRIVATE AGREEMENTS, RECYCLING PROGRAM ON A VOLUNTEER BASIS AND DISPOSAL AT THE ELK RUN SANITARY LANDFILL IN PRESQUE ISLE COUNTY, MONTMORENCY-OSCODA-ALPENA SANITARY LANDFILL IN MONTMORENCY COUNTY, AND THE WASTE MANAGEMENT SANITARY LANDFILL IN CRAWFORD COUNTY.

Collection of solid waste would continue to be private agreements between residents and hauling firm. Annual clean-up days would continue to be provided. Resource recovery efforts would continue to be through volunteer programs with no coordination throughout county. Composting operations (City of Cheboygan) would continue at its basic level. Disposal options would continue to be at Elk Run Sanitary Landfill in Presque Isle County, Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County, and Waste Management Inc. Landfill in Crawford County.

Technical Feasibility
The technical feasibility of sanitary landfilling is well proven and the most utilized system of solid waste management in the U.S. Recycling and composting are also both proven to be technically feasible.

Economic Feasibility
This alternative would require no additional revenues for solid waste management. However, measures would not be taken to reduce future costs through waste reduction efforts, volume based pricing, etc.

Access to Land
Land is available at the three disposal sites to meet future expansion needs.

Access to Transportation
Existing transportation routes will be utilized for solid waste delivery to the landfills.

Effects on Energy
Sanitary landfilling is an energy intensive system. The disposal of materials which required energy to produce, also require energy to transport to the site and energy to mechanically cover the materials daily. Some energy is conserved by utilizing the existing transfer stations in the more rural areas.

Environmental Impacts
Since this alternative utilizes existing disposal sites, initial environmental impacts have not been considered. The negative environmental impacts primarily concern the development of leachate within the site and the contamination of groundwater. Methane gas can also be a concern, however, technology exists for utilization of gas for operations.

Maintaining the existing solid waste management system will not increase environmentally responsible solid waste management. This alternative focuses on land disposal of solid waste rather than reducing waste landfilled through recycling, composting, and reuse.

Public Acceptability
Public acceptability will continue for this program, but will be limited due to minimal emphasis on resource recovery programs.

Resource Conservation
Minimal conservation of natural resources will occur through the existing volunteer recycling program.,

Waste Reduction
As educational efforts will be limited, it is likely this alternative will not result in significant waste reduction.

Pollution Prevention
Pollution prevention efforts will be minimal through this alternative.

Resource Recovery
Resource recovery efforts will be minimal through this alternative.

Ultimate Disposal Area Uses
It is anticipated that the three landfills will ultimately be utilized for recreational purposes.

Institutional Arrangements
Municipalities will continue to be responsible for township transfer stations, and the City of Cheboygan will continue to operate the City's composting program. No new institutional arrangements would be necessary with this alternative.

Why this System Was Not Selected
This system was not selected due to the interest in implementing resource recovery activities in Cheboygan County. There is general agreement that the public is interested in the development and implementation of a county-wide recycling effort, composting and household hazardous waste program.

APPENDIX B

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM, Alternative 1:

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

ADVANTAGES:

1. Minimal costs.

2. Existing recycling and composting programs would be maintained.

DISADVANTAGES:

1. Minimal material recovery.

2. Expansion of resource recovery programs not likely.

3. Problems with marketing recycled material.

4. Little effort towards reduction, reuse.

5. No household hazardous waste program. Hazardous waste still being landfilled.

6. With few changes to existing system, current problems will likely continue.

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.

The process for establishing the Cheboygan Solid Waste Planning Committee involved advertisement in the local newspapers. After responses from the advertisements were received, the Cheboygan County Board of Commissioners requested committee appointments and solicited potential members for the various categories. Once the committee positions were filled, the Cheboygan County Board of Commissioners voted on and approved the committee.

Committee meetings, and tours of facilities were then held to obtain input and oversight into the overall plan. The following provides an overview of the meetings and accomplishments.

APPENDIX C 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. See Attachment G for documentation of the Public Involvement Process.

Meeting #1 October 6, 1998

I. Election of Chair
II. Solid Waste Management Planning Overview
III. Review of Cheboygan County Solid Waste Management System
IV. Identification of issues/problems/deficiencies

Meeting #2 October 27, 1998

V. Discussion of Goals and Objectives
VI. Discussion of Collection System

Landfill Tour: December 2, 1998

Tour of Elk Run Landfill, Montmorency-Oscoda –Alpena Landfill, Waste Management, Inc. Landfill

Meeting #3 January 7, 1999

VII. Discussion/determination of resource recovery options
VIII. Import/Export Authorization Discussion

Transfer Station/Recycling Center Tour: February 1, 1999.

Meeting #4 March 24, 1999

IX. Resource Recovery Program Discussion
X. Discussion of Solid Waste Management Alternatives

Meeting #5 May 18, 1999

IX. Resource Recovery Program Discussion
X. Discussion of Solid Waste Management Alternatives

Meeting #6 June 22, 1999

XI. Review Draft Plan

Meeting #7 July 27,1999

XI. Review Draft Plan

Meeting #8 September 14, 1999

XI. Review Draft Plan
XII. Authorize plan for 90 day Public Comment/Review period

Public Input September 17, 1999 – December 17, 1999

XIII. Conduct Public Hearing: November 10,1999

XIV. Write up comments

XV. Meeting #9 January 13, 2000

A. Review comments, and make any necessary changes to Plan.

B. Approve Plan, send to County for action.

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

In establishing the Cheboygan County Solid Waste Planning Committee, the Cheboygan County Board of Commissioners requested committee appointments and solicited potential members for the various categories. Several of the proposed appointees were formerly on the Cheboygan County Solid Waste Planning Committee. New appointees were interviewed by the controller with concurrence of the Personnel Committee Chairman. Once the committee positions were filled, the Cheboygan County Board of Commissioners voted on and approved the committee. Committee members were appointed to serve a two year term.

PLANNING COMMITTEE

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

Four representatives of the solid waste management industry:
1. Matthew Schindewolf, Earth Tech, Inc. – Wastewater Treatment Plant Operator
2. Ken Paquet, Waste Management , Inc
3. Don Babcock, Burt Township Transfer Station

One representative from an industrial waste generator:
1. Greg Elliott, Great Lakes Tissue

Two representatives from environmental interest groups from organizations that are active within the County:
1. Ann Baughman, Tip of the Mitt Watershed Council
2. Jeanette Mateer, Wal-Mart Recycling Committee

One representative from County government. All government representatives shall be elected officials or a designee of an elected official.
1. Charles Brown, Cheboygan County Controller

One representative from township government:
1. Richard Kolb, Tuscarora Township

One representative from city government:
1. Scott McNeil, City of Cheboygan

One representative from regional government:
1. Herb Makima, Northeast Michigan Council of Governments

Three representatives from the general public who reside within the County:
1. Robert Heilman, Mackinaw City
2. Rose Neuman, Cheboygan County
3. Deanna Gilbert, Waverly Township

APPENDIX D

PLAN IMPLEMENTATION STRATEGY

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 Cheboygan County Board of Commissioners are ultimately responsible for implementing the Solid Waste Management Plan, as part of their duties as general governance. The Board of Commissioners will coordinate the solid waste implementation activities with local municipalities, agencies, organizations, and planning commissions.

Cheboygan County will work with the Solid Waste Planning Committee to implement the Solid Waste Plan. It is likely that money to fund plan implementation will be limited, so the county will try to utilize existing agencies. NRCS, MSU Extension, Cheboygan Soil Conservation District and the local Health Department will be involved in Education Dissemination.

Subcommittees will be established to help with implementation of the Selected Solid Waste Management System. Subcommittees will address implementing the recycling program, resource conservation education program, household hazardous waste disposal program, composting program, and clean-up day program. An education subcommittee will be established to assemble educational materials dealing with recycling, composting, household hazardous waste collection, resource conservation, and volume reduction. The education subcommittee will also assess what new types of educational materials are needed, if any, and develop an effective dissemination strategy. Existing agencies within the county will be utilized to disseminate the information to the general public.

A partnership agreement will be developed to outline the responsibilities of each entity involved in implementing the plan. The partnership agreement will aid in plan implementation by providing a means for local agencies to work together. Until a partnership agreement can be developed, the following letters provide documentation of acceptance of responsibilities from all entities involved in implementing the Solid Waste Plan, as required by the plan.

MICHIGAN STATE
UNIVERSITY
EXTENSION

February 29, 2000

Diane Rekowski
Northeast Michigan Council of Governments
P.O. Box 457
Gaylord, Michigan 49734

Dear Diane,

The Cheboygan County MSU Extension Office has been identified in the proposed Cheboygan County Solid Waste Plan update as a key participant in the implementation of the plan. Our role focuses on the educational portion of the plan, which follows our organizational mission: "To provide quality, research based information and educational programs that empower people to improve both their personal and community quality of life."

Cheboygan County MSU Extension will assist with the development and dissemination of public education and promotional programs necessary for implementing various components of the Cheboygan County Solid Waste Plan, including recycling, composting, and household hazardous waste collection programs. Cheboygan County MSU Extension will continue to offer research based information and literature designed to inform the public on matters related to recycling, resource recovery and conservation.

We are working in many program areas within Cheboygan County, including those associated with Agriculture and Natural Resources, Children, Youth and Family Programs, and Community and Economic Development. We continually re-focus our program goals to meet important needs identified within the county.

We are happy to provide continuing public education on these and other very important issues.

Sincerely,

Ann H. Chastain
County Extension Director

cc: Charles Brown, Cheboygan County Controller

CHEBOYGAN COUNTY
MSU Extension
870 S. Main St.
Room 111
P.O. Box 70
Cheboygan, Michigan
49721
616/627-8815
Fax: 616/627-8408
e-mail:
cheboyga@msue.msu.edu

Michigan State University Extension programs and materials are open to all without regard to race, color, national origin, sex, disability, age or religion. Michigan State University, U.S. Department of Agriculture and counties cooperating. MSU is an affirmative-action equal opportunity institution.

Watershed Council

Protecting Northern Michigan's Water Resources

December 9, 1999

Diane Rekowski
NEMCOG
P.O. Box 457
Gaylord, MI 49734

Dear Diane,

I am writing on behalf of the Tip of the Mitt Watershed Council to offer our continued involvement on the Cheboygan County Solid Waste Planning Committee to implement the Cheboygan County Solid Waste Plan. Specifically, we will assist with educational efforts to promote recycling and pollution prevention as well as other resource conservation efforts identified in the plan.

Recycling is an important component of water resource protection. We look forward to continuing our participation to increase recycling in Cheboygan County.

Sincerely,

Ann Baughman

Ann Baughman
Water Resource Program Director

P.O. Box 300, Conway, MI 49722
phone: 231 347.1181 fax: 231.347.5928
email: water@freeway.net

CHEBOYGAN CONSERVATION DISRICT

825 S Huron - Suite 2
Cheboygan, Michigan 49721

Phone (231)-627-3383
Fax (231)-627-8190

March 24, 2000

Diane Rekowski, Director
Northeast Michigan Council of Governments
P.O. Box 457
Gaylord, Michigan 49721

RE: Cheboygan County Proposed Solid Waste Plan

Dear Diane:

The Cheboygan Conservation District hereby accepts it's role of informing and educating the public on recycling, composting and resource conservation in the implementation of the proposed Cheboygan County Solid Waste Plan.

The district is in full support of the plan and is looking forward to assisting with the implementation.

Sincerely,

Wayne Spray

Wayne Spray, Chairman

ATTACHMENTS

ATTACHMENTS

ATTACHMENT A: Resolutions and Ordinances
Resolutions, ordinances and host community agreements.

ATTACHMENT B: Listed Capacity
Documentation from landfills that the County has access to their listed capacity.

ATTACHMENT C: Maps
Map showing locations of solid waste disposal facilities used by the County.

Map of percent change in population density from 1970 to 1990 in Northeast Michigan.

Map of percent change in population from 1970 to 1990 in Northeast Michigan.

ATTACHMENT D: Inter-County Agreements
Copies of Inter-County agreements with other counties (if any).

ATTACHMENT E: Special Conditions
Special conditions affecting import or export of solid waste.

ATTACHMENT F: Tipping Fee Projections
Tipping fee projections for the Montmorency-Oscoda Sanitary Landfill.

ATTACHMENT G: Public Involvement Process
Documentation of the Public Involvement Process.

ATTACHMENT H: Definition of Primary and Contingency
Primary and contingency definitions.

ATTACHMENT A

Resolutions and Ordinances

ATTACHMENT B

Listed Capacity

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

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION
PO BOX 30241
LANSING MI 48909-7741

January 14, 2000

Ms. Diane Rekowski
Northeast Council of Governments
121 East Mitchell
Gaylord, Michigan 49735

Dear Ms. Rekowski:

I am writing in response to your request during our phone conversation on January 11, 2000, in which you asked that the Department of Environmental Quality (DEQ) include in the Presque Isle County Solid Waste Management Plan Update (Plan), that we are preparing, authorization for import of solid waste from Cheboygan County.

While I cannot provide any specific assurances as to which counties will be authorized to import solid waste in Presque Isle County until the DEQ completes preparations of the Presque Isle Plan, we expect to provide import authorizations for a sufficient number of Northern Michigan counties to ensure a reasonable service area for the Elk Run Landfill. We will keep your request in mind as we move ahead to develop the Plan. In order to make sure that Cheboygan County waste can go to Presque Isle County for disposal in the event the final Presque Isle Plan authorizes such imports, I suggest that you include authorization in Cheboygan County's Plan for export of its' solid waste to Presque Isle County.

If you have any questions regarding this matter, please contact me at the telephone number below, or by e-mail, at idziaks@state.mi.us.

Sincerely,

Stan Idziak

Stan Idziak
Solid Waste Management Unit
Waste Management Division
517-373-4740

cc: Presque Isle County Solid Waste Management File
Cheboygan County Solid Waste Management File

CITY ENVIRONMENTAL SERVICES, INC. OF WATERS • 11375 SHERMAN ROAD • FREDERIC, MICHIGAN 49733
(517) 732-3553
(800) 968-0237
FAX: (517) 732-8182

November 20, 1998

Diane Rewkowski
Cheboygan County Solid Waste Management Planning Committee
PO Box 457
Gaylord, Michigan 49735

RE: Disposal Capacity
Waste Management - Waters Landfill

Dear Ms. Rewkowski,

The purpose of this letter is to certify that Waters Landfill located in Crawford County has sufficient disposal capacity to accept Cheboygan County's waste. Waters Landfill has a total permitted capacity of 6,968,000 bank cubic yards. Therefore, more than 66 months of capacity is available to Cheboygan County.

Cheboygan County can rely on Waters Landfill for its future disposal needs. Please feel free to contact me if I can provide any further information.

Sincerely,
Waste Management

Debora L. Johnston
Divisional Engineer

c: Chad Crawford, WM - Waters

CITY

Recycled Paper

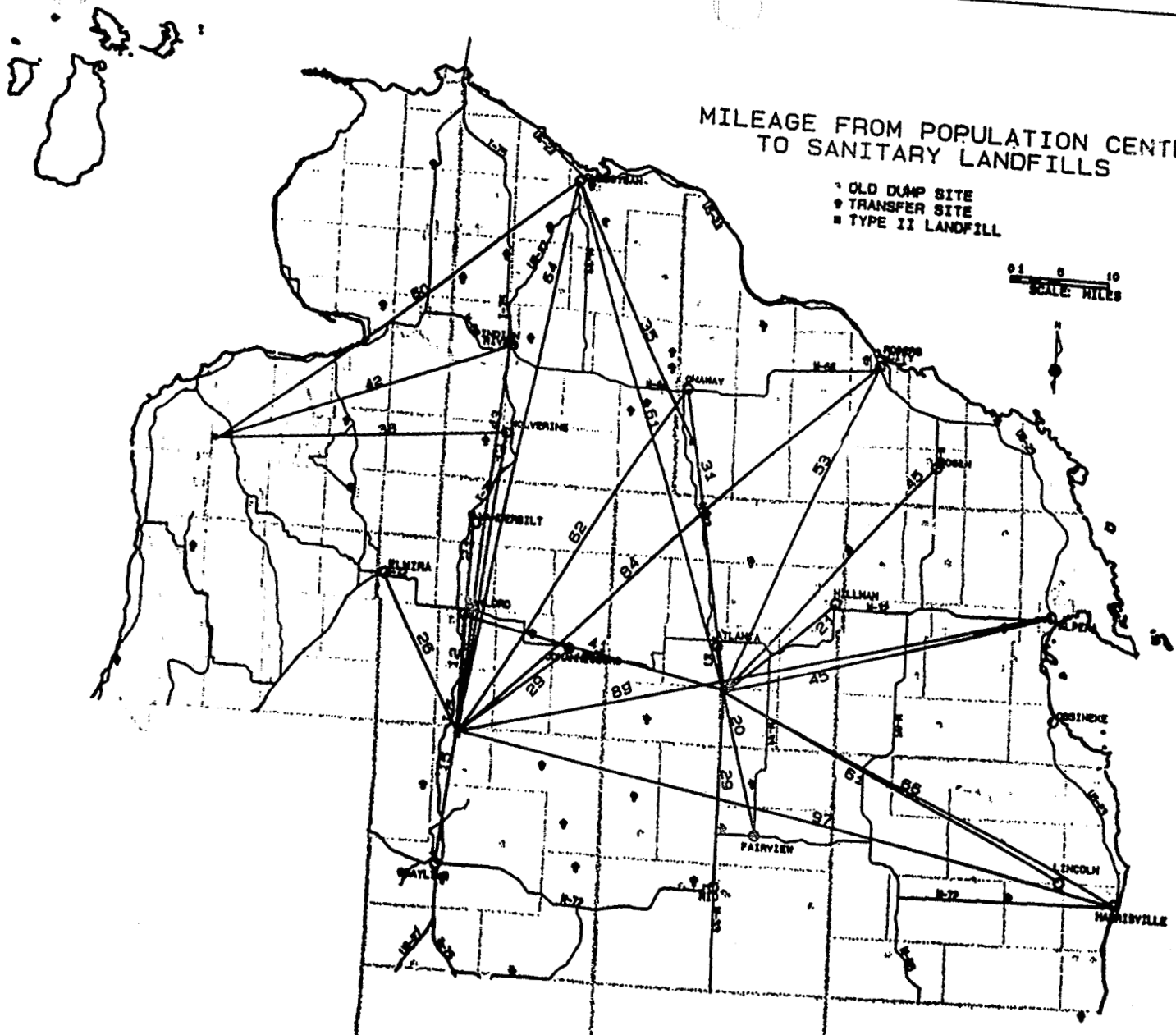
ATTACHMENT C

Maps

Map showing locations of solid waste disposal facilities used by the County.

Map of percent change in population density from 1970 to 1990 in Northeast Michigan.

Map of percent change in population from 1970 to 1990 in Northeast Michigan.


MILEAGE FROM POPULATION CENTERS
TO SANITARY LANDFILLS
OLD DUMP SITE
TRANSFER SITE
TYPE II LANDFILL
SCALE MILES
ELMIRA
HILLMAN
FAIRVIEW
LINCOLN
HARRISVILLE
42
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ATTACHMENT D

Inter-County Agreements

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

Solid Waste Disposal Agreement with Presque Isle County.

SOLID WASTE DISPOSAL AGREEMENT

AGREEMENT ENTERED INTO by the counties of Presque Isle and Cheboygan on the date as executed and for a term that commences immediately and terminates upon agreement of the parties or upon a showing of good cause.

WHEREAS the Solid Waste Management Act encourages regional and multi-county planning: and

WHEREAS it best serves the interests of all citizens to cooperate and coordinate the disposal of solid waste: now then

IT IS AGREED:

1) As long as either county has waste disposal facilities with 20 years capacity for that county, or such other period as may hereafter be required under 641, then such county agrees to accept waste generated in the other county;

2) Presque Isle County will accept waste generated in the County of Cheboygan only up to a maximum of 68.6 tons per day (average calculated over a period of one year); Cheboygan County commits to maintain siting criteria in its Solid Waste Management Plan so to allow the potential for future land fill development;

3) Each county shall promote a program of recycling, composting and household hazardous waste collection;

4) Transportation, disposal and material recovery shall all be in accordance with the Solid Waste Management Plan of the recipient county and the regulations which implement Act 641, and nothing contained in this Agreement relieves any party of obligations to comply with all Federal and State laws, and local ordinances as may be applicable.

PRESQUE ISLE COUNTY BOARD OF COMMISSIONERS, by

Charles Rhode, Chairman Dated: 8-30-93

CHEBOYGAN COUNTY BOARD OF COMMISSIONERS, by

, Chairman

ATTACHMENT E

Special Conditions

Special conditions affecting import or export of solid waste.

None.

ATTACHMENT F

Tipping Fee Projections

Tipping fee projections for the Montmorency-Oscoda Sanitary Landfill.

MONTMORENCY/OSCODA LANDFILL PROJECTION
145,000 CYD/YR @$10/CYD; 10 YR BOND PAYBACK

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
EXPENSES CAPITAL										
Cell Construction Area (Acres)	-	5.4	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
Cell Construction	$0	$2,400,000	$800,000	$800,000	$800,000	$400,000	$400,000	$400,000	$400,000	$400,000
Financial Assurance			A	A	A	B	B	B	B	B
Cash	$0	$0	$293,760	$108,800	$108,800	$108,800	$54,400	$54,400	$54,400	$54,400
Financial Test	$579,828	$0	$684,720	$253,600	$253,600	$253,600	$126,800	$126,800	$126,800	$126,800
Bonding Required	$0	$2,400,000	$735,472	$655,229	$748,520	$455,094	$465,491	$531,767	$607,480	$683,973
EXPENSES ANNUAL										
Financial Assurance (Cash)	$0	$0	$293,760	$108,800	$108,800	$108,800	$54,400	$54,400	$54,400	$54,400
Operations and Capping	$651,200	$671,900	$750,000	$750,000	$750,000	$800,000	$800,000	$800,000	$800,000	$800,000
Bond Payment	$128,800	$128,100	$341,712	$446,429	$539,720	$646,294	$711,091	$777,367	$853,080	$939,573
Total	$780,000	$800,000	$1,385,472	$1,305,229	$1,398,520	$1,555,094	$1,565,491	$1,631,767	$1,707,480	$1,793,973
REVENUE ANNUAL										
Total Potential CYD/Yr	85,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000	150,000	150,000
Tipping Fee - Gate	$10	$10	$10	$10	$10	$10	$10	$10	$10	$10
Tipping Fee - Average	$9.30	$10	$10	$10	$10	$10	$10	$10	$10	$10
Total	$790,500	$1,450,000	$1,450,000	$1,450,000	$1,450,000	$1,500,000	$1,500,000	$1,500,000	$1,500,000	$1,500,000
BALANCE										
(Not including cell construction)	$10,500	$650,000	$64,528	$144,771	$51,480	($55,094)	($65,491)	($131,767)	($207,480)	($293,973)
NET CASH	$10,500	$650,000	$0	$0	$0	$0	$0	$0	$0	$0

NOTE: This spreadsheet utilizes many assumptions and estimates to allow an indication of future financing of the Landfill expansion. Capital Consultants Engineers is NOT an accounting firm and this spreadsheet does not represent a business plan.

The principle assumptions utilized for these calculations are as follows:

- Bond payments are for prior year bonding required for cell construction with a TEN year payback at SEVEN % interest
- Financial assurance "Cash" is 30% of the overall financial assurance required
- Financial assurance "Financial Test" is 70% of the overall financial assurance required
- The refuse volume is 145,000 CYD/Yr, the maximum anticipated with Montmorency, Oscoda, and Alpena counties refuse
- The tipping fee for the new landfill will be $10/CYD

MONTMORENCY/OSCODA LANDFILL PROJECTION
145,000 CYD/YR @$11/CYD; 10 YR BOND PAYBACK

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
EXPENSES CAPITAL										
Cell Construction Area (Acres)	-	5.4	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
Cell Construction	$0	$2,400,000	$800,000	$800,000	$800,000	$400,000	$400,000	$400,000	$400,000	$400,000
Financial Assurance			A	A	A	B	B	B	B	B
Cash	$0	$0	$293,760	$108,800	$108,800	$108,800	$54,400	$54,400	$54,400	$54,400
Financial Test	$579,828	$0	$684,720	$253,600	$253,600	$253,600	$126,800	$126,800	$126,800	$126,800
Bonding Required	$0	$2,400,000	$590,472	$489,583	$559,290	$233,922	$212,828	$243,130	$277,747	$317,293
EXPENSES ANNUAL										
Financial Assurance (Cash)	$0	$0	$293,760	$108,800	$108,800	$108,800	$54,400	$54,400	$54,400	$54,400
Operations and Capping	$651,200	$671,900	$750,000	$750,000	$750,000	$800,000	$800,000	$800,000	$800,000	$800,000
Bond Payment	$128,800	$128,100	$341,712	$425,783	$495,490	$575,122	$608,428	$638,730	$673,347	$712,883
Total	$780,000	$800,000	$1,385,472	$1,284,583	$1,354,290	$1,483,922	$1,462,828	$1,493,130	$1,527,747	$1,567,293
REVENUE ANNUAL										
Total Potential CYD/Yr	85,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000	150,000	150,000
Tipping Fee - Gate	$10	$11	$11	$11	$11	$11	$11	$11	$11	$11
Tipping Fee - Average	$9.30	$11	$11	$11	$11	$11	$11	$11	$11	$11
Total	$790,500	$1,595,000	$1,595,000	$1,595,000	$1,595,000	$1,650,000	$1,650,000	$1,650,000	$1,650,000	$1,650,000
BALANCE (Not including cell construction)	$10,500	$795,000	$209,528	$310,417	$240,710	$166,078	$187,172	$156,870	$122,253	$82,707
NET CASH	$10,500	$795,000	$0	$0	$0	$0	$0	$0	$0	$0

NOTE: This spreadsheet utilizes many assumptions and estimates to allow an indication of future financing of the Landfill expansion. Capital Consultants Engineers is NOT an accounting firm and this spreadsheet does not represent a business plan.

The principle assumptions utilized for these calculations are as follows:

- Bond payments are for prior year bonding required for cell construction with a TEN year payback at SEVEN % interest
- Financial assurance "Cash" is 30% of the overall financial assurance required
- Financial assurance "Financial Test" is 70% of the overall financial assurance required
- The refuse volume is 145,000 CYD/Yr, the maximum anticipated with Montmorency, Oscoda, and Alpena counties refuse
- The tipping fee for the new landfill will be $11/CYD

MONTMORENCY/OSCODA LANDFILL PROJECTION
145,000 CYD/YR @$12/CYD; 10 YR BOND PAYBACK

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
EXPENSES CAPITAL										
Cell Construction Area (Acres)	-	5.4	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
Cell Construction	$0	$2,400,000	$800,000	$800,000	$800,000	$400,000	$400,000	$400,000	$400,000	$400,000
Financial Assurance			A	A	A	B	B	B	B	B
Cash	$0	$0	$293,760	$108,800	$108,800	$108,800	$54,400	$54,400	$54,400	$54,400
Financial Test	$579,828	$0	$684,720	$253,600	$253,600	$253,600	$126,800	$126,800	$126,800	$126,800
Bonding Required	$0	$2,400,000	$445,472	$323,938	$370,061	$12,750	$0	$0	$0	$0
EXPENSES ANNUAL										
Financial Assurance (Cash)	$0	$0	$293,760	$108,800	$108,800	$108,800	$54,400	$54,400	$54,400	$54,400
Operations and Capping	$651,200	$671,900	$750,000	$750,000	$750,000	$800,000	$800,000	$800,000	$800,000	$800,000
Bond Payment	$128,800	$128,100	$341,712	$405,138	$451,261	$503,950	$505,765	$505,765	$505,765	$505,765
Total	$780,000	$800,000	$1,385,472	$1,263,938	$1,310,061	$1,412,750	$1,360,165	$1,360,165	$1,360,165	$1,360,165
REVENUE ANNUAL										
Total Potential CYD/Yr	85,000	145,000	145,000	145,000	145,000	150,000	150,000	150,000	150,000	150,000
Tipping Fee - Gate	$10	$12	$12	$12	$12	$12	$12	$12	$12	$12
Tipping Fee - Average	$9.30	$12	$12	$12	$12	$12	$12	$12	$12	$12
Total	$790,500	$1,740,000	$1,740,000	$1,740,000	$1,740,000	$1,800,000	$1,800,000	$1,800,000	$1,800,000	$1,800,000
BALANCE (Not including cell construction)	$10,500	$940,000	$354,528	$476,062	$429,939	$387,250	$439,835	$439,835	$439,835	$439,835
NET CASH	$10,500	$940,000	$0	$0	$0	$0	$39,835	$39,835	$39,835	$39,835

NOTE: This spreadsheet utilizes many assumptions and estimates to allow an indication of future financing of the Landfill expansion. Capital Consultants Engineers is NOT an accounting firm and this spreadsheet does not represent a business plan.

The principle assumptions utilized for these calculations are as follows:

- Bond payments are for prior year bonding required for cell construction with a TEN year payback at SEVEN % interest
- Financial assurance "Cash" is 30% of the overall financial assurance required
- Financial assurance "Financial Test" is 70% of the overall financial assurance required
- The refuse volume is 145,000 CYD/Yr, the maximum anticipated with Montmorency, Oscoda, and Alpena counties refuse
- The tipping fee for the new landfill will be $12/CYD

ATTACHMENT G

Public Involvement Process

Documentation of the Public Involvement Process.

Northeast Michigan Council of Governments
NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.mi.us
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

Meeting Notice

Cheboygan County Solid Waste Planning Committee
January 13, 2000
3:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

Agenda

I. Call to Order

II. Members Present

III. Minutes of Previous Meeting

IV. Review of Public Comments

V. Review of Draft Solid Waste Management Plan

VI. Public Comment

VII. Approval of Cheboygan County Solid Waste Management Plan

VIII. Adjournment

Minutes of the

Cheboygan County Solid Waste Planning Committee
January 13, 2000
3:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI

Call To Order: The meeting was called to order by Chair Charles Brown.

Members Present: Charles Brown, Herb Makima, Scott McNeil, Ann Baughman, Matt Schindewolf, Ken Paquet, Deanna Gilbert, Robert Heilman. DPA: Diane Rekowski. Guests: Wayne Vermilya, Robert Morgan.

Minutes of Previous Meeting: Moved by K. Paquet, seconded by H. Makima to approve the minutes of the September meeting and the Public Hearing. Ayes all, motion approved.

Review of Public Comments: All public comments received were sent and passed out to committee members.

Review of Solid Waste Management Plan: Discussion then took place on the draft solid waste plan. D. Rekowski provided the committee with an outline of he changes that were made based on the public comments. Discussion then took place on the changes.

Public Comment: Wayne Vermilya discussed with the committee: his reasons for not wanting Cheboygan County to list the Elk Run Landfill as a disposal option; the disposal agreement between Presque Isle County and Charlevoix County; and other issues regarding solid waste management.

Approval of Solid Waste Plan: M. Schindewolf moved, seconded by R. Heilman to approve the Plan, subject to changes discussed at meeting, and move it forward to the County Board of Commissioners Ayes all, motion carried.

Other Business: C. Brown thanked everyone for their participation. The Plan, if approved by the County Board will then move forward to the municipalities for their approval. The Committee will receive a letter at that point thanking the members for their participation. D. Rekowski also thanked the Committee for their time and commented on the excellent leadership of Chair Charles Brown.

Adjournment: The meeting was adjourned at 4:15 p.m.

Northeast Michigan Council of Governments
NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-55
email: nemcog@northland.lib.m
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

MEETING NOTICE

Cheboygan County Solid Waste Planning Committee

PUBLIC HEARING

November 10, 1999

7:00 p.m.

Commissioner's Room

Cheboygan County Building

Cheboygan, Michigan

Northeast Michigan Council of Governments

NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.mi.us
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

October 25, 1999

Cheboygan Daily Tribune
308 N. Main
PO Box 290
Cheboygan MI 49721-0290

Dear Sir:

Please place the following notice of a public hearing in the November 1, 1999 edition of your paper.

NOTICE

A PUBLIC HEARING on the proposed 1999 Update to the Cheboygan County Solid Waste Management Plan will be held 7:00 p.m. on Wednesday, November 10, 1999 in the Commissioner's Room, at the Cheboygan County Building, Cheboygan, Michigan. The plan is available for review at the County Board of Commissioners office in Cheboygan or at any of the township halls within the county. Written comments will be accepted until December 17, 1999 , and can be sent to NEMCOG, PO Box 457, Gaylord, MI, 49734.

Please send the bill to NEMCOG at the above address, along with a tearsheet of the notice. Thank you for your prompt attention to this notice.

Sincerely,

Diane Rekowski

Diane Rekowski
Director

ptAir jetliner plun h Atlantic; 217 feared dead

(AP) — An EgyptAir
[redacted] 217
[redacted]
minutes, crashing into
ff Nantucket Island
rch was suspended
it ships continued
ea. The Coast Guard
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ere slim.
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expected to join the
Monday, with orders
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pt and the Nile. Alan

Four from Michig

pid descent

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h, the National Weather
said. The Coast Guard
gentle seas.
EgyptAir plane was on
milar to the one taken by
Flight 111, a McDonnell
MD11 which crashed off
Scotia with 229 people
Planes on that route fly
nnedy to Nantucket, then
rth to Nova Scotia and
ndland before heading east
e Atlantic.
EgyptAir plane, named

Fahim Rayan was asked about reports that the Federal Aviation Administration had warned EgyptAir of a terrorist threat.

"We take all precautions and we have plenty of warnings from everybody, including the FAA," he replied.

Armed security guards routinely fly on EgyptAir flights. After the airline's passengers go through the normal airport security check, they are again subjected to baggage search just before they board the aircraft.

Plane crash at sea

[redacted] delivered to [redacted] flight hours.

NOTICE

A PUBLIC HEARING on the proposed 1999 Update to the Cheboygan County Solid Waste Management Plan will be held at **7:00 pm on Wednesday, November 10, 1999** in the Commissioner's Room, at the Cheboygan County Building, Cheboygan, MI The plan is available for review at the County Board of Commissioners office in Cheboygan or at any of the township halls within the county. Written comments will be accepted until December 17, 1999, and can be sent to NEMCOG, PO Box 457, Gaylord, MI 49734

[redacted] ANIMAL trans
AIRPORT/ LEVERING Road
CARPENTER- APPLY

Public Comments Received At NEMCOG

Northeast Michigan Council of Governments
NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.m
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 4

Cheboygan County Solid Waste Planning Committee
Public Hearing
November 10, 1999
7:00 p.m.
Cheboygan County Commissioner's Room
Cheboygan County Building
Cheboygan, MI

Chair Charles Brown opened the Public Hearing at 7:00 p.m.. An overview of the public hearing was provided.

Committee Members Present: Charles Brown, Matthew Schindewolf, Scott McNeil, Robert Heilman, Richard Kolb, Ken Paquet. DPA: Diane Rekowski

Introduction of Committee Members: Committee members were introduced to the public.

Public Comment: Bill Morgan discussed two areas of the Plan that are a concern to the Townships. One concern is the reference that the townships will provide clean-up days. The townships will continue to provide clean-up days as long as they can afford it. Doesn't see why that should be in the County Plan. Second area of concern is the reference to the townships providing transfer stations. Same situation. Some townships are having trouble providing transfer stations. County Plan is something that the County is responsible for. Would like be favorable to changing the Plan to where it says will provide to may provide in regards to clean-up days and transfer stations.

Marcia Rocheleau, Beaugrand Township Supervisor agreed with Bill Morgan's comments. Also she discussed her concerns about tying Cheboygan County's recycling with Emmet County's recycling. Why would we do that and not try to do something on our own. Would hate to tie in with another county when this county would not have any control over the costs.

No Other Public Comment.

The Public Hearing was closed at 7:30 p.m..

The Neuman Family

Perry, Rosemary, Travis, Tanya & Toni
109 South F. Street * Cheboygan, MI 49721
(231) 627-6331

Post-it® Fax Note 7671
To DIANE REKOWSKI
Co./Dept.
Phone #
Fax # 517-732-5578
Date 12/1/99
From CH BROWN
Co.
Phone # 231-627-8855
Fax #
# of pages ▶ 2

November 23, 1999

Cheboygan County Solid Waste Committee
Cheboygan County Building
County Board of Commissioner's Office
870 Main Street
Cheboygan, MI 49721

RE: Public Comment - Cheboygan County Solid Waste Plan

Dear Solid Waste Committee,

Let me first begin by introducing myself. My name is Rosemary Neuman (aka Rose Neuman). A couple of months ago I received a draft copy of the Cheboygan County Solid Waste Management Plan from Diane Rekowski, Director of NEMCOG. I found the plan to contain interesting information and while reading through it, I noticed my name included as a member of the planning committee (page 109). I placed a call to Ms. Rekowski to explain that I had never served on this committee. Not that I wasn't asked, but because I was unable to attend the first couple of meetings because of sickness. I did receive the minutes of the first meetings that were held and did not read my name as a committee member that was absent. I also had a couple of people question the fact that a lay person would be on a committee such as this one. Therefore, I did not attend any meetings. This being the case, you can imagine my surprise to see my name listed as a planning committee member, a representative from the general public who resides within the County.

After reviewing the draft, I would like to congratulate the committee on the work that they performed and the information that they obtained. I would also like to apologize that I did not attend these meetings and visits to the facilities that you toured. It appears that you all did a fantastic job with the task set before you.

Therefore, I feel that my name should not be included on the committee and wish for it to be removed.

I would also like to add that I would very much like to see Cheboygan County implement a recycling program, whether it be with the Emmet County Recycling Facility or on our own. I am skeptical as to whether the voters will approve yet another millage for another program. I would much rather see these projected monies be obsorbed from funds that Cheboygan County might have, combined with user fees. I believe that everyone who would like to see a recycling program implemented would not mind paying their share, but the majority of people do not want higher taxes.

My thinking is this: Educate the people, make it easy for the people, keep it low cost, and the people will participate. Eventually people will realize that it is much better to recycle their trash than to bury it. And yes, in some communities it is mandated that recycleables be seperated from the refuse for pick-up. I hope that the committee is sincere with regards to a recycling program and continue to be aggresive to get this much needed program implemented. Keep up the great work and thank you for your time.

Sincerely,

Rosemary Neuman

Rosemary Neuman

LAW OFFICES
HONIGMAN MILLER SCHWARTZ AND COHN
2290 FIRST NATIONAL BUILDING
660 WOODWARD AVENUE
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LANSING, MICHIGAN

September 2, 1999

Ms. Diane Rekowski
Cheboygan County Solid Waste Planning Committee
121 East Mitchell
P.O. Box 457
Gaylord, MI 49735

RE: Cheboygan County Solid Waste Management Plan Update

Dear Ms. Rekowski:

We are attorneys representing the Michigan Waste Industries Association ("MWIA"). MWIA is a Michigan nonprofit corporation representing approximately 50 individual Michigan-based solid waste companies, some of which operate within Cheboygan County. MWIA submits the enclosed document ("Comments") for inclusion in the administrative record of public comments on Cheboygan County's draft solid waste management plan update (the "Plan"). The Comments address MWIA's concerns with certain provisions that may be contained in the Plan that exceed Cheboygan County's authority. Cheboygan County does not have unlimited authority to include provisions in a solid waste management plan. Rather, Cheboygan County only has such powers that have been granted by the Michigan Legislature. Although the Legislature authorized Cheboygan County to prepare a solid waste management plan under Part 115 of the Natural Resources and Environmental Protection Act ("Part 115"), Cheboygan County may only include in the Plan those provisions that are expressly identified in Part 115 or the administrative rules promulgated by the Michigan Department of Environmental Quality ("MDEQ") under Part 115 (the "Part 115 Rules"). The provisions discussed in the Comments are clearly not authorized under Part 115 or the Part 115 Rules.

To the extent the Plan contains any of the provisions discussed in the Comments, or incorporates such provisions into the Plan by reference to other documents, MWIA requests that Cheboygan County either: (1) revise the Plan to eliminate the offending provisions; or (2) provide a written response to MWIA's concerns in the Plan's appendix, as required by Rule 711(g) of the Part 115 Rules, which sets forth the basis for retaining such provisions in the Plan. Feel free to call me with any questions regarding MWIA's Comments.

Sincerely,

Jeffrey L. Woolstrum

cc: Mr. Jim Sygo, Chief Waste Management Division, MDEQ
Mr. Terry Guerin, President -- MWIA

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MICHIGAN WASTE INDUSTRIES ASSOCIATION
GENERAL COMMENTS ON
COUNTY SOLID WASTE MANAGEMENT PLAN UPDATES

Michigan Waste Industries Association ("MWIA") submits the following general comments on the contents of solid waste management plan updates that are currently being prepared by various counties under the authority of Part 115 of the Natural Resources and Environmental Protection Act ("Part 115") and the administrative rules promulgated thereunder (the "Part 115 Rules"). The discussion contained in this document is divided into two main sections. The first section discusses a county's limited authority to regulate matters in general, and the Legislature's narrow delegation of authority under Part 115 to include provisions in a solid waste management plan. In light of this narrow delegation of authority, the second section reviews eleven provisions that have appeared in one or more of the draft solid waste management plan updates. These eleven provisions generally relate to:

- disposal fees;
- disposal area operating criteria;
- mandated recycling;
- mandated data collection;
- preservation of more than 10 years of disposal capacity;
- disposal area volume caps;
- identification of specific disposal areas that may accept county waste;
- restrictions on special waste importation;
- enforcement activities by uncertified health departments;
- transporter licensing; and
- the severablity of unlawful plan provisions without a formal plan amendment.

MWIA contends that these provisions exceed the limited authority that has been delegated to the counties under Part 115. Further, because the Michigan Department of Environmental Quality ("MDEQ") can only approve or disapprove a county solid waste management plan without conditions, MWIA contends that MDEQ cannot approve a plan that contains one or more of these offending provisions.

I. PERMISSIBLE CONTENTS OF COUNTY SOLID WASTE MANAGEMENT PLANS

Although Part 115 authorizes counties, among other government entities, to prepare solid waste management plans, counties do not have carte blanch to include any provision related to solid waste in their plans. To the contrary, counties must work within the narrow confines of the Legislature's delegation of authority under Part 115. Thus, when reviewing a plan submitted by a county for final approval, MDEQ must *not* ask, "does Part 115 *prohibit* this particular provision." Rather, MDEQ must ask whether a specific section of Part 115 or the Part 115 Rules *clearly authorizes* each provision included in a solid waste management plan including each

provision incorporated by reference into the plan. If the answer to that question is not an unqualified "yes," MDEQ must deny approval of the plan.

A. COUNTIES ONLY POSSESS DELEGATED POWERS AND CANNOT REGULATE FOR THE HEALTH AND SAFETY OF THEIR RESIDENTS

MWIA's comments on the contents of solid waste management plans are rooted in the fact that Michigan counties have delegated powers only and do not have any inherent power to regulate for purposes of the public's health, safety and general welfare. A "county has only such powers as have been granted to it by the Constitution or the state Legislature." *Alan v. Wayne Co.*, 388 Mich. 210, 245 (1972); *Berrien Co. Probate Judges v. Michigan Am. Fed'n of State, Co. & Mun. Employees Council 25*, 217 Mich. App. 205 (1996). Where counties have been clearly delegated such powers, the Michigan Constitution provides that the powers "shall be liberally construed in [the counties'] favor" and that "[p]owers granted to counties . . . shall include those fairly implied and not prohibited by this constitution." Const. 1963, art. VII, § 34. This constitutionally imposed rule of interpretation, however, is not an independent grant of authority. "As these provisions are not self-executing, the rights which they bestow and the duties which they impose may not be enforced without the aid of legislative enactment." *County Comm'r of Oakland Co. v. Oakland Co. Executive*, 98 Mich. App. 639, 646 (1980). Thus, counties have no inherent authority to include provisions in solid waste management plans without clear authorization by Legislature under Part 115.

The Office of the Attorney General ("AG") has consistently opined that counties are without authority to regulate matters that have not been clearly delegated by the Legislature. For example, the AG most recently opined that a non-charter county does not have authority to regulate the emissions from a municipal waste incinerator. OAG, 1998, No. 6,992 (Aug. 13, 1998). In that opinion, the AG first noted that townships, cities and villages *have* been granted authority by the Michigan Legislature to adopt ordinances for the purpose of protecting the public's health, safety and general welfare. Therefore, the AG opined that a township, city or village *may* adopt an air pollution control ordinance, provided that it is reasonably related to this purpose. For counties, however, the AG noted that, while chartered counties are expressly authorized by statute to adopt ordinances to abate air pollution, *the Legislature "has not seen fit to grant this power to noncharter counties."* *Id.*, slip op. p. 3 (emphasis added). The AG concluded that a "noncharter county is thus not authorized to adopt an air pollution ordinance." *Id*; *see also*, OAG, 1969-1970, No. 4,696, p. 197 (Nov. 25, 1970) (county could not adopt air pollution control ordinance because no Michigan statute authorized a non-chartered county to abate air pollution and county ordinance would interfere with local affairs of villages and townships). This opinion is particularly significant with respect to solid waste management plans prepared under Part 115 because a municipal waste incinerator is a disposal area that must be consistent with such a plan. *See* M.C.L. § 324.11529(4).

Other AG opinions express a similar narrow view of a county's authority to regulate in the absence of clear enabling legislation. In OAG, 1989-1990, No. 6,665, p. 401 (Nov. 15, 1990), the AG opined that counties lacked the general authority to regulate the location of cigarette vending machines because such a county ordinance would interfere with the authority of the villages and townships to regulate such matters. In OAG, 1979-1980, No. 5,617, p. 526 (Dec. 28, 1979), the AG opined that a county could not adopt the Michigan Vehicle Code as

an ordinance because "[t]he adoption of the motor vehicle code by a county would not be consistent with the legislative intention [to grant certain exclusive powers to the county road commission], would have the effect of contravening the general laws of the state, and of extending or increasing the powers or jurisdiction of a county board of commissioners." In OAG, 1977-1978, No. 5,341, p. 556 (July 31, 1978), the AG opined that a county had no authority to operate a spay and neuter clinic for dogs and cats because "[n]o provision of the [Michigan Dog Law] specifically or impliedly authorizes a county to establish and maintain a spay and neuter clinic and cats are not mentioned in either the title or body of the act." In OAG, 1977-1978, No. 5,304, p. 427 (April 27, 1978), the AG opined that a county board of commissioners could not establish a county police or security force because "the delegation of law enforcement responsibilities to any entity other than the sheriff would contravene general state laws [and] would tend to increase the powers, duties and jurisdiction of the county board of commissioners by transferring a measure of the sheriff's authority to an organization responsible to the board and not to the sheriff." Finally, in OAG, 1971-1972, No. 4,741, p. 82 (April 13, 1972), the AG opined that a county was without authority to adopt an ordinance banning the discharge of firearms in the county because there was "no express or implied power in the county which would support the adoption of [such] an ordinance."

B. PART 115 ESTABLISHES THE SPECIFIC CONTENTS OF A SOLID WASTE MANAGEMENT PLAN AND COUNTIES CANNOT INCLUDE EXTRANEOUS PROVISIONS THAT WOULD EXPAND THEIR LIMITED DELEGATION OF AUTHORITY.

The contents of a solid waste management plan are limited to the provisions that are authorized in Part 115 and the Part 115 Rules, which are summarized below. A solid waste management plan must "encompass all municipalities within the county" and "take into consideration solid waste management plans in contiguous counties and existing local approved solid waste management plans as they relate to the county's needs." M.C.L. § 324.11533(2). A solid waste management plan must contain an evaluation of the "best available information" regarding recyclable materials within the planning area, including an evaluation of how the planning entity is meeting the state's waste reduction and recycling goals, and, based on that analysis, either provide for recycling and composting of such materials or establish that recycling and composting are not necessary or feasible or is only necessary or feasible to a limited extent. M.C.L. § 324.11539(1)(a), (b) and (d). If the solid waste management plan proposes a recycling or composting program, the plan must contain details of the major features of that program, including ordinances or other measures that will ensure collection of the material; however, as discussed below, Part 115 does not operate as enabling legislation for such ordinances. M.C.L. § 324.11539(1)(c). A solid waste management plan must "identify specific sites for solid waste disposal areas for a 5-year period after approval of a plan or plan update," and either identify specific sites for disposal areas for the remaining portion of the ten-year planning period, or include a process to annually certify the remaining solid waste disposal capacity available to the plan area and an interim siting mechanism[1] that becomes operative when the annual certification

[1]"An interim siting mechanism shall include both a process and a set of minimum siting criteria, both of which are not subject to interpretation or discretionary acts by the planning entity,

indicates that the available capacity is less than 66 months. M.C.L. § 324.11538(2). The solid waste management plan must "explicitly authorize" another county, state, or country to export solid waste into the county. M.C.L. § 324.11538(6).[2] In addition, "[w]ith regard to intercounty service within Michigan, the service must also be explicitly authorized in the exporting county's solid waste management plan." *Id.*

In addition to the plan content requirements expressly contained in Part 115, Section 11538(1) authorizes MDEQ to promulgate rules "for the development, form, and submission of initial solid waste management plans." M.C.L. § 324.11538(1). Part 115 directs MDEQ to provide for the following in its administrative rules regarding solid waste management plans:

> (a) The establishment of goals and objectives for prevention of adverse effects on the public health and on the environment resulting from improper solid waste collection, processing, or disposal including protection of surface and groundwater quality, air quality, and the land.
>
> (b) An evaluation of waste problems by type and volume, including residential and commercial solid waste, hazardous waste, industrial sludges, pretreatment residues, municipal sewage sludge, air pollution control residue, and other wastes from industrial or municipal sources.
>
> (c) An evaluation and selection of technically and economically feasible solid waste management options, which may include sanitary landfill, resource recovery systems, resource conservation, or a combination of options.
>
> (d) An inventory and description of all existing facilities where solid waste is being treated, processed, or disposed of, including a summary of the deficiencies, if any, of the facilities in meeting current solid waste management needs.
>
> (e) The encouragement and documentation as part of the plan, of all opportunities for participation and involvement of the public, all affected agencies and parties, and the private sector.

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and which if met by an applicant submitting a disposal area proposal, will guarantee a finding of consistency with the plan." M.C.L. § 324.11538(3).

[2]*See also*, M.C.L. § 324.11513; Mich. Admin. Code r. 299.4711(e)(iii)(C). In *Fort Gratiot Sanitary Landfill, Inc. v. Department of Natural Resources*, 504 U.S. 353 (1992), the United States Supreme Court invalidated Part 115's flow control provisions to the extent they regulated the interstate flow of solid waste because such regulation violated the Commerce Clause of the United States Constitution.

(f) That the plan contain enforceable mechanisms for implementing the plan, including identification of the municipalities within the county responsible for the enforcement. This subdivision does not preclude the private sector's participation in providing solid waste management services consistent with the county plan.

(g) Current and projected population densities of each county and identification of population centers and centers of solid waste generation, including industrial wastes.

(h) That the plan area has, and will have during the plan period, access to a sufficient amount of available and suitable land, accessible to transportation media, to accommodate the development and operation of solid waste disposal areas, or resource recovery facilities provided for in the plan.

(i) That the solid waste disposal areas or resource recovery facilities provided for in the plan are capable of being developed and operated in compliance with state law and rules of the department pertaining to protection of the public health and the environment, considering the available land in the plan area, and the technical feasibility of, and economic costs associated with, the facilities.

(j) A timetable or schedule for implementing the county solid waste management plan.

M.C.L. § 324.11538(1)(a)-(j). MDEQ has promulgated such rules in Part 7 of the Part 115 Rules. Mich. Admin. Code r. 299.4701 *et seq.*

Rule 711 of the Part 115 Rules sets forth the general structure and the required contents of a county solid waste management plan. "To comply with the requirements of [Part 115,] . . . county solid waste management plans shall be in compliance with the following general format": (i) executive summary;[3] (ii) introduction;[4] (iii) data base;[5] (iv) solid waste management system

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[3]The executive summary must include an overview of the plan, the conclusions reached in the plan and the selected solid waste disposal alternatives. Mich. Admin. Code r. 299.4711(a).

[4]The introduction must establish the plan's goals and objectives for protecting the public health and the environment by properly collecting, transporting, processing, or disposing of solid waste, and by reducing the volume of the solid waste stream through resource recovery, including source reduction and source separation. Mich. Admin. Code r. 299.4711(b).

[5]The data base must include: (i) an inventory and description of the existing facilities serving the county's solid waste disposal needs; (ii) an evaluation of existing problems related to solid waste collection, management, processing, treatment, transportation, and disposal, by type and volume of solid waste; (iii) the current and projected population densities, centers of population, and centers of waste generation for five- and twenty-year periods; and (iv) the current and projected land

alternatives; (v) plan selection; (vi) management component; and (vii) documentation of public participation in the preparation of the plan.[6] Mich. Admin. Code r. 299.4711(a)-(d). Under this general format, the operative portions of a solid waste management plan are contained in the solid waste management system alternatives, plan selection, and management component elements of the plan. The required contents of these three elements are discussed below.

First, each solid waste management system alternative developed in the plan must address the existing problems identified in the plan's data base related to solid waste collection, management, processing, treatment, transportation, and disposal and must address the following components: (i) resource conservation and recovery, including source reduction, source separation, energy savings, and markets for reusable materials; (ii) solid waste volume reduction; (iii) solid waste collection and transportation; (iv) sanitary landfills; (v) ultimate uses for disposal areas following final closure; and (vi) institutional arrangements, such as agreements or other organizational arrangements or structures, that will provide for the necessary solid waste collection, transportation, processing and disposal systems. Mich. Admin. Code r. 299.4711(d)(i)(A)-(H). In addition, the plan must evaluate public health, economic,[7] environmental, siting, and energy impacts associated with each alternative. Mich. Admin. Code r. 299.4711(d)(ii).

Second, the plan must select the preferred solid waste management system alternative developed and evaluated in the plan. The selection must be based on "[a]n evaluation and ranking of proposed alternative systems" using factors that include: (i) technical and economic feasibility; (ii) access to necessary land and transportation networks; (iii) effects on energy usage, including the impacts of energy shortages; (iv) environmental impacts; and (v) public acceptability. Mich. Admin. Code r. 299.4711(e)(i)(A)-(G). The basis for the selection must be set forth in the plan, including a summary of the evaluation and ranking system. Mich. Admin. Code r. 299.4711(e)(ii)(A). The plan must state the advantages and disadvantages of the selected alternative based on the following factors: (i) public health; (ii) economics; (iii) environmental effects; (iv) energy use; and (v) disposal area siting problems. Mich. Admin. Code r. 299.4711(e)(ii)(B)(1)-(5). The selected alternative must "be capable of being developed and operated in compliance with state laws and rules of the Department pertaining to the protection of the public health and environment," include a timetable for implementing the plan, and be "consistent with and utilize population, waste generation, and other [available] planning information." Mich. Admin. Code r. 299.4711(e)(ii)(C)-(E). With respect to disposal areas, the selected alternative must "identify specific sites for solid waste disposal areas" for a five-year

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development patterns and environmental conditions as related to solid waste management systems for five and twenty-year periods. Mich. Admin. Code r. 299.4711(c)(i)-(iv).

[6]The public participation in the preparation of the solid waste management plan must be documented by including in an appendix to the plan a record of attendance at the public hearing and the planning agency's responses to citizens' concerns and questions. Mich. Admin. Code r. 299.4711(g).

[7]The evaluation of the economic impacts must include an estimate of the capital, operational, and maintenance costs for each alternative system. Mich. Admin. Code r. 299.4711(d)(ii).

period following MDEQ approval of the plan and, "[i]f specific sites cannot be identified for the remainder of the 20-year period, the selected alternative shall include specific criteria that guarantee the siting of necessary solid waste disposal areas for the 20-year period subsequent to plan approval." Mich. Admin. Code r. 299.4711(e)(iii)(A), (B). As of June 9, 1994, however, "a county that has a solid waste management plan that provides for siting of disposal areas to fulfill a 20-year capacity need through use of a siting mechanism, is only required to use its siting mechanisms to site capacity to meet a 10-year capacity need." M.C.L. § 324.11537a.

Third, the "management component" element of a solid waste management plan must "identif[y] management responsibilities and institutional arrangements necessary for the implementation of technical alternatives." Mich. Admin. Code r. 299.4711(f). The management component must contain the following: (i) "[a]n identification of the existing structure of persons, municipalities, counties, and state and federal agencies responsible for solid waste management, including planning, implementation, and enforcement"; (ii) an assessment of such persons' and governmental entities' technical, administrative, financial and legal capabilities to fulfill their responsibilities under the plan; (iii) "[a]n identification of gaps and problem areas in the existing management system which must be addressed to permit implementation of the plan"; and (iv) a "recommended management system for plan implementation."[8] Mich. Admin. Code r. 299.4711(f)(i)-(iii).

Solid waste management plans that contain provisions that have not been clearly authorized under the specific sections of Part 115 and the Part 115 Rules discussed above are unlawful. A plan containing such unlawful provisions cannot be approved by MDEQ.

II. MWIA'S COMMENTS ON COUNTY PLAN PROVISIONS

With the foregoing limitations on the specific contents of a solid waste management plan in mind, MWIA contends that the following provisions that are either contained expressly in a solid waste management plan, or that are contained elsewhere (*e.g.* ordinances, regulations or resolutions) but are incorporated by reference into a solid waste management plan, clearly exceed a county's authority under Part 115:

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[8]The recommended management system must: (i) identify specific persons and governmental entities that are responsible for implementing and enforcing the plan, including the legal, technical, and financial capability of such persons and entities to fulfill their responsibilities; (ii) contain a process for "ensuring the ongoing involvement of and consultation with the regional solid waste management planning agency," and for "ensuring coordination with other related plans and programs within the planning area, including, but not limited to, land use plans, water quality plans, and air quality plans"; (iii) identify "necessary training and educational programs, including public education"; (iv) contain a "strategy for plan implementation, including the acceptance of responsibilities from all entities assigned a role within the management system"; and (v) identify "funding sources for entities assigned responsibilities under the plan." Mich. Admin. Code r. 299.4711(f)(iii)(A)-(F).

DISPOSAL FEES

Nothing in the Part 115 or Part 115 Rule provisions discussed above authorizes a county to *require* the payment or collection of fees as part of a solid waste management plan. At most, Rule 711(f)(iii)(F) authorizes the "management component" of a plan to "*recommend*" a "financial program that identifies funding sources." Mich. Admin. Code r. 299.4711(f)(iii)(F). The underlying authority for such a funding program, however, cannot arise from the plan itself and must be found in some other enabling legislation.

Although the Michigan Court of Appeals has recently held that that Section 11520(1) of Part 115 authorized Saginaw County to adopt an *ordinance* that imposes a surcharge on the disposal of solid waste within the county, the court did not hold that such an ordinance may be included in a solid waste management plan or that a solid waste management plan may operate as the underlying authority for such a fee. *County of Saginaw v. Peoples Garbage Disposal, Inc.*, 232 Mich. App. 202 (1998). Indeed, the ordinance at issue in *County of Saginaw* was merely mentioned in the plan as a possible source of revenue and was adopted *after* MDEQ had approved the Saginaw County Solid Waste Management Plan. This distinction is significant because a disposal area that operates "contrary" to an approved solid waste management plan may be subject to an enforcement action under Part 115, which may include a cease and desist order. M.C.L. § 324,11519(2). Clearly, nothing in Part 115 indicates that a disposal area could be ordered to cease operations merely because it failed to pay a fee imposed by a local ordinance.

Moreover, the holding in *County of Saginaw* is inapplicable to counties that do not have certified health departments under Part 115. Section 11520(1) of Part 115, which the court relied upon for its holding, provides:

> Fees collected by a *health officer* under this part shall be deposited with the city or county treasurer, who shall keep the deposits in a special fund designated for use in implementing this part. If there is an ordinance or charter provision that prohibits a health officer from maintaining a special fund, the fees shall be deposited and used in accordance with the ordinance or charter provision. Fees collected by the department under this part shall be credited to the general fund of the state.

M.C.L. § 324.11520(1) (emphasis added). A *health officer* is expressly defined as in Part 115 as "a full-time administrative officer of a *certified* city, county or district department of health." M.C.L. § 324.11504(1) (emphasis added). A certified department of health must be "specifically delegated authority by [MDEQ] to perform designated activities prescribed by [Part 115]." M.C.L. § 324.11502(5). Part 2 (Certification of Local Health Departments) of the Part 115 Rules sets forth the specific requirements that a county health department must meet in order to become certified. Mich. Admin. Code r. 299.4201 *et seq*. Part 115 contains absolutely no authority for the collection of fees by a county that does not have a certified health department.

Further, even if Part 115 did authorize the inclusion of a fee provision in the solid waste management plan of a county with a certified health department (which it does not), MDEQ is prohibited from approving such a plan if the fee is really a disguised tax that violates the Headlee Amendment to the Michigan Constitution, which prohibits local units of government from imposing new taxes without voter approval. Mich. Const. art. 9, § 31; *See Bolt v. City of*

Lansing, 459 Mich. 152 (1998) (storm water fee invalidated under Headlee Amendment as disguised tax). MDEQ's act of approving a solid waste management plan is not merely a rubber stamp of a county's independent act. Rather, MDEQ's approval is the final step in establishing a statewide "cohesive scheme of uniform controls" over the disposal of solid waste. *Southeastern Oakland Co. Incinerator Auth. v. Avon Twp.*, 144 Mich. 39, 44 (1986). By approving a solid waste management plan, MDEQ incorporates that plan into the State solid waste management plan, M.C.L. § 324.11544(1), and, thereafter, a person may not "establish a disposal area" or "conduct, manage, maintain, or operate" a disposal area "contrary" to that approved plan. M.C.L. §§ 324.11509(1), .11512(2). Accordingly, MDEQ could not approve a solid waste management plan that imposes a fee on the disposal of solid waste *unless* MDEQ can demonstrate that the amount of any fee imposed will be reasonable related to the services provided to the persons paying the fee, and that the fee will not otherwise constitute a tax that requires voter approval.

MWIA also believes that, because the decision in *County of Saginaw* has been appealed to the Michigan Supreme Court, MDEQ should use its discretion and refrain from approving county solid waste management plans that contain fee provisions until this issue has been fully resolved. In this regard, MWIA notes that the appeals court's analysis of Section 11520(1) is clearly erroneous because it failed to consider the history and development of Part 115. Section 11520(1) was originally enacted as Section 18 of 1978 PA 641. M.C.L. § 299.418 (repealed, now Section 11520(1) of Part 115). In 1978, the only fees expressly contemplated in Act 641 were nominal disposal area operating license and construction permit application fees, which ranged between $100 and $700. Further, the language of Section 18 of Act 641 was nearly identical to Section 3(3) of the Garbage and Rubbish Disposal Act of 1965, which imposed similar nominal application fees and imposed very few obligations on counties with respect to the solid waste disposal. M.C.L. § 325.293(3) (repealed by Act 641). The Legislature's intent with respect to Section 11520(1) was to allow certified county health departments to retain and use these application fees solely for the purpose of processing the applications. The Legislature clearly did not intend for Section 11520(1) to operate as enabling legislation for counties to impose fees on the disposal of solid waste in order to fund an extensive county solid waste or recycling program.[9] Accordingly, the appeals court's interpretation of Part 115 will likely be overturned.

OPERATING CRITERIA

A solid waste management plan may not contain disposal area operating criteria. Nothing in Part 115 or the Part 115 Rule provisions discussed above authorizes a solid waste management plan to regulate the day-to-day operations of a disposal area. To the contrary, Part 115 provides MDEQ with exclusive authority to regulate disposal area operation. Further, Michigan Appellate Court decisions have unanimously interpreted Part 115 as preempting all local regulation of disposal area operation. *County of Saginaw v. Peoples Garbage Disposal, Inc.*, 232 Mich. App. 202 (1998); *Southeastern Oakland County Incineration Authority v. Avon Township*, 144 Mich. App. 39 (1985); *Weber v. Orion Twp. Bldg. Inspector*, 149 Mich. App. 660

[9] It is also noteworthy that, for the last three years, bills that would authorize county-imposed fees have been proposed in the Michigan Legislature.

(1986) ("all local regulations concerning the operation of a landfill are preempted"); *Dafter Township v. Reid*, 159 Mich. App. 149 (1987). Thus, disposal area operating criteria are not appropriate for a solid waste management plan.

MANDATED RECYCLING

A solid waste management plan may not mandate a quota on the volume of solid waste that is recycled within the planning area. Nothing in Part 115 or the Part 115 Rule provisions discussed above authorizes a county or any another planning agency to mandate such a quota system. Rather, Part 115 only authorizes a county to "*propose* a recycling or composting program" in a county plan. M.C.L. § 324.11539(1)(b). Such a program may only set recycling *goals*, rather than require absolute volume reductions. M.C.L. § 324.11539(1)(d). Further, a program that prohibits a disposal area from accepting a particular type of solid waste, such as waste that could be recycled, would directly conflict with Section 11516(5) of Part 115, which states that "[i]ssuance of an operating license by [MDEQ] *authorizes the licensee to accept waste for disposal.*" M.C.L. §§ 324.11533(1), .11516(5) (emphasis added). Thus, any recycling program may, at most, be referenced as a goal.

MANDATED DATA COLLECTION

A solid waste management plan may not require the owner or operator of a disposal area to collect and report data concerning the volume of solid waste that is recycled or disposed of. Nothing in Part 115 or the Part 115 Rule provisions discussed above authorizes a county to impose such an on-going duty on disposal area owners and operators. Rather, Part 115 only requires that, at the time a plan is prepared, a county evaluate "how the planning entity is meeting the state's waste reduction goals." M.C.L. § 324.11539(1)(d).[10] Further, Part 115 expressly delegates the authority to impose such data-collection duties solely to MDEQ and not to the counties. M.C.L. § 324.11507a. Thus, data collection requirements imposed in a solid waste management plan exceed the authority delegated under Part 115.

PRESERVATION OF MORE THAN 10 YEARS OF CAPACITY

A solid waste management plan should provide for the free flow of solid waste to the extent the plan otherwise demonstrates 10 years of disposal capacity. A county has no duty or obligation under Part 115 to demonstrate more than 10 years of disposal capacity. M.C.L. § 324.11538(2). Therefore, a county has no legitimate interest in preserving additional disposal capacity by restricting or prohibiting the importation of out-of-county waste. While the preservation of disposal capacity beyond the legitimate needs of a county may ultimately benefit county residents, the cost of providing that benefit is imposed solely on the disposal area owners and operators doing business within the county. Such a restriction on the use of a disposal area's air space constitutes a taking without compensation that violates the federal and Michigan constitutions.

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[10] A bill that would authorize such mandated data collection regarding recycled material was proposed in the Michigan Legislature last year.

VOLUME RESTRICTIONS

A solid waste management plan cannot restrict the volume of solid waste that may be accepted for disposal at a disposal area during any given time period. Such a restriction is not authorized by that Part 115 Part 115 Rule provisions discussed above and directly conflicts with Section 11516(5) of Part 115, which states that "[i]ssuance of an operating license by [MDEQ] *authorizes the licensee to accept waste for disposal*," without limitation. M.C.L. §§ 324.11533(1), .11516(5) (emphasis added). Such a volume cap would also constitute local regulation of disposal area operating criteria, which, as discussed above, is preempted by Part 115. *Southeastern Oakland County Incineration Authority v. Avon Township*, 144 Mich. App. 39 (1985); *Weber v. Orion Twp. Bldg. Inspector*, 149 Mich. App. 660 (1986) ("all local regulations concerning the operation of a landfill are preempted"); *Dafter Township v. Reid*, 159 Mich. App. 149 (1987). Moreover, such a restriction is an unconstitutional taking of property because it temporarily prevents the use of air space at the disposal area without compensating the owner or operator.

IDENTIFICATION OF SPECIFIC DISPOSAL AREAS

While a solid waste management plan may identify specific disposal areas that are available and willing to accept a county's waste in order to demonstrate that a county has 10 years of disposal capacity and that the plan does not require an interim siting mechanism under Section 11538(2) of Part 115, nothing in Part 115 authorizes a county to restrict the disposal of its solid waste to those specifically identified facilities. Rather, Sections 11513 and 11538(6) of Part 115 require that a plan authorize the "acceptance" of out-of-county waste and the disposal "service" provided either by or for another Michigan county; however, these sections do not require that such acceptance or service be limited to specifically identified disposal areas. M.C.L. §§ 324.11513, .11538(6). At most, a solid waste management plan may limit the disposal of a county's solid waste to specific *counties* that are explicitly authorized in the plan to accept the waste and to serve the county's disposal needs. Furthermore, to the extent that Rule 711(e)(iii)(C) of the Part 115 Rules can be interpreted as requiring the identification of specific disposal areas in solid waste management plans, MWIA contends that such a requirement exceeds MDEQ's authority under Part 115 and is unenforceable.

RESTRICTIONS ON SPECIAL WASTE

A solid waste management plan may not restrict the importation of specific types of solid waste. With the possible exception of municipal solid waste incinerator ash, nothing in Part 115 authorizes a solid waste management plan to distinguish between different types of solid waste. *See* M.C.L. §§ 324.11513, 11538(6). Therefore, to the extent a solid waste management plan authorizes solid waste to be imported from or exported to other counties, such authorization must extend to all forms of solid waste, as that term is defined in Part 115.

ENFORCEMENT BY UNCERTIFIED HEALTH DEPARTMENT

Part 115 and the Part 115 Rules only grant enforcement powers to county health departments that have been certified by MDEQ. For example, Part 115 expressly provides that a health officer of a certified health department may inspect a licensed disposal area at any reasonable time and may issue a cease and desist order, establish a schedule of closure or remedial action, or enter into a consent agreement with an owner or operator of a disposal area that violates the provisions of Part 115 or the Part 115 Rules. M.C.L. § 324.11516(3); Mich. Admin. Code r. 299.4203. In addition, a health officer of a certified health department may inspect a solid waste transporting unit that is being used to transport solid waste along a public road or is being used for the overnight storage of solid waste and may order the unit out of service if it does not comply with the requirements of Part 115 or the Part 115 Rules. M.C.L. §§ 324.11525, .11528(3); Mich. Admin. Code r. 299.4205. None of these enforcement and inspection powers, however, has been delegated to a county that does *not* have a certified health department. Therefore, to the extent a county does not have a certified health department, any enforcement and inspection provisions contained in a solid waste management plan are unlawful.

It should also be noted that several counties without certified health departments are attempting incorporating ordinances into their solid waste management plans under the guise of "enforceable mechanisms," which regulate matters that have been delegated solely to a counties that have certified health departments. For example, at least one such ordinance includes a provision that would authorize a county without a certified health department to issue a "stop order" that prohibits the operation of a disposal area in violation of any provision of the ordinance. As discussed above, this authority has been delegated solely to counties with certified health departments. M.C.L. § 324.11516(3). Further, such a "stop order" would operate as a suspension of a license issued under Part 115 without any of the procedural protections provided under the Michigan Administrative Procedures Act. M.C.L. § 24.101 *et seq.*

It should also be noted that, although a solid waste management plan must include a "program and process" to assure that solid waste is properly collected and disposed of, Part 115's planning provisions are not enabling legislation for county ordinances. M.C.L. § 324.11533(1). The "program and process" included in a solid waste management plan is only "enforceable" to the extent the plan incorporates "enforceable mechanisms" that are specifically authorized under enabling statutes other than Part 115. M.C.L. § 324.11538(1)(f). Although the Legislature contemplated that "enforceable mechanisms" may include ordinances,[11] Part 115 expressly states that it does not "validate or invalidate an ordinance adopted by a county" for purposes of assuring solid waste collection and disposal. M.C.L. § 324.11531(2). Thus, it is clear that the Legislature intended that Part 115 would not operate as enabling legislation for the adoption of such enforceable mechanisms. Such authority, if any, must be specifically delegated to counties in some other enabling legislation. Accordingly, to the extent a solid waste management plan incorporates a county ordinance that provides enforcement powers to a county, MDEQ may not approve such a

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[11]Part 115 defines the term "enforceable mechanism" as "a legal method whereby the state, a county, a municipality, or a person is authorized to take legal action to guarantee compliance with an approved county solid waste management plan. Enforceable mechanisms include contracts, intergovernmental agreements, laws, ordinances, rules and regulations." M.C.L. § 324.11503(5).

plan until MDEQ has reviewed each provision of that ordinance and determined that it has been authorized by some enabling legislation and does not exceed a county's delegated authority under that legislation.

TRANSPORTER LICENSING

A solid waste management plan may not impose a licensing requirement on solid waste transporting units. Nothing in the Part 115 or Part 115 Rule provisions discussed above authorizes a county to implement such a licensing program. Rather, Part 115 imposes certain minimum requirements on solid waste transporting units. *See* M.C.L. § 324.11528(1); Mich. Admin. Code r. 299.4601(1). While MDEQ, a health officer of a certified health department, or a law enforcement officer may order a solid waste transporting unit out of service if it does not comply with these minimum requirements, Part 115 is expressly "intended to encourage the continuation of the private sector in the solid waste . . . transportation business *when in compliance with the minimum requirements of this part.*" M.C.L. §§ 324.11528(3), .11548(2) (emphasis added). Moreover, as discussed in the previous section, Part 115's planning provisions do not operate as enabling legislation for counties to adopt ordinances regulating the transportation of solid waste. It should be noted that the Legislature repealed Part 115's licensing requirement for solid waste transporting units in 1979. *See* 1979 Public Act 10. Therefore, licensing requirements applicable to solid waste transporting units exceed a county's authority and a solid waste management plan containing such requirements (or incorporating an ordinance containing such requirements) may not be approved by MDEQ.

SERVERABILITY CLAUSE

The provisions of a solid waste management plan are not severable. Part 115 does not authorize such piecemeal revisions to a solid waste management plan without following the specific plan amendment procedures set forth in Part 115 and the Part 115 Rules. *Michigan Waste Systems, Inc. v. Department of Natural Resources*, 157 Mich. App. 746 (1987). Rather, an amendment to a solid waste management plan to remove an unlawful provision must proceed through a specific five-step approval process. M.C.L. § 324.11535; Mich. Admin. Code r. 299.4708, .4709. To the extent any portion of a plan is declared unlawful or invalid and the county does not properly amend its plan to remove the offending provision, MDEQ must withdraw its approval of the entire plan and establish a schedule for the county to amend the plan in order to comply with Part 115. M.C.L. § 324.11537(2). Therefore, counties and MDEQ should make every effort at this time to ensure that each plan fully complies with Part 115.

DET_B\172131.1

Resolution
Cheboygan County Solid Waste Plan Update

WHEREAS: The Cheboygan County Solid Waste Plan has been released for public comment. And;

WHEREAS: The proposed update does not reference the existing Solid Waste Disposal Agreement if effect between Cheboygan County and Presque Isle County And;

WHEREAS: The proposed update contains language that conflicts with the terms of the Solid Waste Disposal Agreement. And;

WHEREAS: The proposed update attempts to provide municipalities overly broad authority to adopt ordinances that may be unenforceable under Part 115 of P.A. 451 (the Solid Waste Act). And;

WHEREAS: The update attempts to improperly restrict the siting and operation of solid waste disposal facilities in Cheboygan County.

NOW THEREFORE BE IT RESOLVED:

That the North Allis Township Board of Trustees hereby authorizes the Township Supervisor and Clerk to sign the attached letter and submit it to the Cheboygan County Solid Waste Planning Committee as comment to the proposed Update to the Cheboygan County Solid Waste Plan.

BE IT FURTHER RESOLVED:

That copies of this resolution and letter be sent to the Cheboygan County Board of Commissioners, Jim Sygo (Chief Waste Management Division DEQ), State Representative Andy Neumann, State Senator Walter North, and Governor John Engler.

Post-it® Fax Note 7671	Date 12/27/99 # of pages ▶ 4
To Diane Rekowski	From LHB
Co./Dept NEMCOG	Co. Cheb. Cnty
Phone #	Phone # 231-627-8855
Fax # 517/732-5578	Fax #

RECEIVED
DEC 21 1999
CONTROL

Cheboygan County Solid Waste Plan Update

The North Allis Twp. Board of Trustees respectfully submits the following as comment to the Draft Cheboygan County Solid Waste Management Plan Update which was released by the Cheboygan County Solid Waste Planning Committee to the 90 day public comment period in September, 1999, in accordance with the solid waste management act.

The (Update) does not reference the existing Solid Waste Disposal Agreement (reciprocal agreement) that remains in effect between Cheboygan and Presque Isle Counties and that "terminates upon agreement of the parties or upon a showing of good cause." (see attached exhibit 1). It is the position of the North Allis Twp. Board that the terms of the (agreement) provide the foundation for the future ability of Cheboygan County to fulfill the reciprocal requirements of the solid waste act. The Solid Waste Disposal Agreement is a "contract" between Presque Isle County and Cheboygan County. **We therefore oppose the proposed update as presented.**

The (Update) contains language that conflicts with the terms and conditions of the (reciprocal agreement) Although Presque Isle County is named as a potential import county to Cheboygan County, the only specific reference to or guarantee that Presque Isle County would be allowed to use disposal capacity in Cheboygan County is (page 38) to a Type A Transfer Station. The solid waste management act requires that counties that wish to export waste to another county must provide for the import of waste from that county. We expect that to mean, under the terms of the Solid Waste Disposal Agreement, "final disposal." The Solid Waste Act supercedes all local zoning. The (Update) attempts to rely on local zoning to control siting of solid waste facilities in Cheboygan County. The siting criteria therefore does not guarantee the siting of future disposal capacity in Cheboygan County. The (Update) page 39 Table 1-B, does not name Presque Isle County as an import county in the event that new solid waste disposal facility is sited in Cheboygan County. **We therefore oppose the proposed update as presented.**

The (Update) page 85, attempts to provide municipalities overly broad authority to adopt ordinances that may be unenforceable under Part 115 of P.A. 451 (the solid waste act). **We therefore oppose the proposed update as presented.**

The (Update) attempts to improperly restrict the siting and operation of solid waste disposal facilities in Cheboygan County **We therefore oppose the proposed the update as presented.**

Sincerely:

Dan Webster Twp. Supervisor Thol M Wilson Clerk

Date 12-14-99

Resolution
Cheboygan County Solid Waste Plan Update

WHEREAS: The Cheboygan County Solid Waste Plan has been released for public comment. And;

WHEREAS: The proposed update does not reference the existing Solid Waste Disposal Agreement if effect between Cheboygan County and Presque Isle County. And;

WHEREAS: The proposed update contains language that conflicts with the terms of the Solid Waste Disposal Agreement. And;

WHEREAS: The proposed update attempts to provide municipalities overly broad authority to adopt ordinances that may be unenforceable under Part 115 of P.A. 451 (the Solid Waste Act). And;

WHEREAS: The update attempts to improperly restrict the siting and operation of solid waste disposal facilities in Cheboygan County.

NOW THEREFORE BE IT RESOLVED:

That the Ellis Township Board of Trustees hereby authorizes the Township Supervisor and Clerk to sign the attached letter and submit it to the Cheboygan County Solid Waste Planning Committee as comment to the proposed Update to the Cheboygan County Solid Waste Plan.

BE IT FURTHER RESOLVED:

That copies of this resolution and letter be sent to the Cheboygan County Board of Commissioners, Jim Sygo (Chief Waste Management Division DEQ), State Representative Andy Neumann, State Senator Walter North, and Governor John Engler.

Post-it® Fax Note 7671	Date 12/15/99	# of pages ▶ 2
To Diane Pekowski	From CHB	
Co./Dept. NEMCOG	Co. Cheb Cnty	
Phone #	Phone # 231-627-8855	
Fax # 517-732-5578	Fax #	

RECEIVED
DEC 2 1999
CHEBOYGAN CO. CLERK

Cheboygan County Solid Waste Plan Update

The Ellis Twp. Board of Trustees respectfully submits the following as comment to the Draft Cheboygan County Solid Waste Management Plan Update which was released by the Cheboygan County Solid Waste Planning Committee to the 90 day public comment period in September, 1999, in accordance with the solid waste management act.

The (Update) does not reference the existing Solid Waste Disposal Agreement (reciprocal agreement) that remains in effect between Cheboygan and Presque Isle Counties and that "terminates upon agreement of the parties or upon a showing of good cause." (see attached exhibit 1). It is the position of the Ellis Twp. Board that the terms of the (agreement) provide the foundation for the future ability of Cheboygan County to accept waste from Presque Isle County. The Solid Waste Disposal Agreement is a "contract" between Presque Isle County and Cheboygan County. **We therefore oppose the proposed update as presented.**

The (Update) contains language that conflicts with the terms and conditions of the (reciprocal agreement) Although Presque Isle County is named as a potential import county to Cheboygan County, the only specific reference to or guarantee that Presque Isle County would be allowed to use disposal capacity in Cheboygan County is (page 38) to a Type A Transfer Station. The Solid Waste Disposal Agreement requires that counties that wish to export waste to Presque Isle County must provide for the import of waste Presque Isle County. We expect that to mean, under the terms of the Solid Waste Disposal Agreement, "final disposal." The Solid Waste Act supercedes all local zoning. The (Update) attempts to rely on local zoning to control siting of solid waste facilities in Cheboygan County. The siting criteria therefore does not guarantee the siting of future disposal capacity in Cheboygan County. The (Update) page 39 Table 1-B, does not name Presque Isle County as an import county in the event that new solid waste disposal facility is sited in Cheboygan County **We therefore oppose the proposed update as presented.**

The (Update) page 85, attempts to provide municipalities overly broad authority to adopt ordinances that may be unenforceable under Part 115 of P.A. 451 (the solid waste act). **We therefore oppose the proposed update as presented.**

The (Update) attempts to improperly restrict the siting and operation of solid waste disposal facilities in Cheboygan County. **We therefore oppose the proposed the update as presented.**

Sincerely:

[illegible] Twp. Supervisor [illegible] Clerk

Date 11-3-99

Presque Isle Board Of Commissioners

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DEPUTY CLERK
Karen Counterman
Kristy L. Hardies

RESOLUTION

CHEBOYGAN COUNTY SOLID WASTE PLAN UPDATE

WHEREAS, the Cheboygan County Solid Waste Plan has been released for public comment;

NOW, THEREFORE, BE IT RESOLVED, that the Presque Isle County Board of Commissioners hereby authorizes the Chairman to sign the attached letter and submit it to the Cheboygan County Solid Waste Planning Committee as comment to the proposed Update to the Cheboygan County Solid Waste Plan.

BE IT FURTHER RESOLVED, that copies of this resolution and letter be sent to the Cheboygan County Board of Commissioners, Jim Sygo (Chief, Waste Management Division DEQ), State Representative Andy Neumann, State Senator Walter North, and Governor John Engler.

Moved by Commissioner Schell and supported by Commissioner Darga to adopt the above resolution.

Ayes: All.

Nays: None.

Excused: None.

Motion carried by roll call vote.

STATE OF MICHIGAN)
) ss.
COUNTY OF PRESQUE ISLE)

I, Susan M. Rhode, Clerk of the County of Presque Isle, do hereby certify the above resolution is a true copy taken from the minutes of the Board of Commissioners at a meeting held November 10, 1999.

Susan M Rhode

Susan M. Rhode
Presque Isle County Clerk

Presque Isle Board Of Commissioners

151 East Huron • P.O. Box 110
ROGERS CITY, MICHIGAN 49779
PHONE: (517) 734-3288
(517) 734-7019
FAX: (517) 734-7635

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Gary A. Nowak

VICE-CHAIRMAN
Donald G. Field

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Carl L. Altman, District 2
Gary L. Wozniak, District 3
Donald G. Field, District 4
Gary A. Nowak, District 5
Michael A. Darga, District 6
Allan H. Bruder, District 7
Robert Schell, District 8

COUNTY CLERK and
CLERK OF THE BOA
OF COMMISSIONERS
Susan M. Rhode

CHIEF DEPUTY
Shirley Glentz

DEPUTY CLERK
Karen Counterman
Kristy L. Hardies

November 12, 1999

Cheboygan County Solid Waste Planning Committee
870 S. Main St.
Cheboygan, MI 49721

Re: Letter of Comment
Cheboygan County Solid Waste Plan Update

The draft update fails to reference the existing solid waste disposal agreement between Cheboygan and Presque Isle counties. We entered into that agreement with the good faith belief that it formed the basis for future inter-county relations concerning solid waste transport and disposal, and we request that Cheboygan County honor that commitment by incorporating the principles of that agreement within the update.

We find it objectionable that your draft proposes that we only would be able to export waste to a type A transfer station in your county. Presque Isle County would like to be included in your plan as a potential exporter to any new facility which may be sited there. Given the proximity of our two counties, it would seem appropriate that we each make capacity available to the other.

Respectfully submitted,

Gary A. Nowak, Chairman
Presque Isle County Board of Commissioners

Presque Isle Board Of Commissioners

151 East Huron • P.O. Box 110
ROGERS CITY, MICHIGAN 49779
PHONE: (517) 734-3288
(517) 734-7019
FAX: (517) 734-7635

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Allan H. Bruder, District 7
Robert Schell, District 8

COUNTY CLERK and
CLERK OF THE BOARD
OF COMMISSIONERS
Susan M. Rhode

CHIEF DEPUTY
Shirley Glentz

DEPUTY CLERK
Karen Counterman

April 11, 1997

Cheboygan County Solid Waste Planning Committee
NEMCOG Designated Planning Agency
P.O. Box 457
123 S. Main
Gaylord, MI 49735

To Whom It May Concern:

This correspondence is in regard to the proposed amendment to the Cheboygan County Solid Waste Management Plan.

The Solid Waste Disposal Agreement (Reciprocal) between Cheboygan and Presque Isle Counties and dated 8-30-93, states in part the following:
2)-----Cheboygan County commits to maintain siting criteria in its Solid Waste Management Plan so to allow the potential for future landfill development.

The Amendment proposes to delete paragraph 1 on page B-3. We wish to bring to your attention that paragraph 1 on page B-3, as it currently states, contains the siting criteria in the Cheboygan County Solid Waste Plan. Deleting this paragraph in its entirety would conflict with the terms of the aforementioned Solid Waste Disposal Agreement. See attached.

Presque Isle County Board of Commissioners
Solid Waste/Emergency Services Committee
Robert Schell
Mike Darga
Wayne Vermilya

Presque Isle County Board of Commissioners by

Allan H. Bruder, Chairman

Allan H. Bruder, Chairman

SOLID WASTE DISPOSAL AGREEMENT

AGREEMENT ENTERED INTO by the counties of Presque Isle and Cheboygan on the date as executed and for a term that commences immediately and terminates upon agreement of the parties or upon a showing of good cause.

WHEREAS the Solid Waste Management Act encourages regional and multi-county planning: and

WHEREAS it best serves the interests of all citizens to cooperate and coordinate the disposal of solid waste: now then

IT IS AGREED:

1) As long as either county has waste disposal facilities with 20 years capacity for that county, or such other period as may hereafter be required under 641, then such county agrees to accept waste generated in the other county;

2) Presque Isle County will accept waste generated in the County of Cheboygan only up to a maximum of 68.6 tons per day (average calculated over a period of one year); Cheboygan County commits to maintain citing criteria in its Solid Waste Management Plan so to allow the potential for future land fill development;

3) Each county shall promote a program of recycling, composting and household hazardous waste collection;

4) Transportation, disposal and material recovery shall all be in accordance with the Solid Waste Management Plan of the recipient county and the regulations which implement Act 641, and nothing contained in this Agreement relieves any party of obligations to comply with all Federal and State laws, and local ordinances as may be applicable.

PRESQUE ISLE COUNTY BOARD OF COMMISSIONERS, by

Charles Rhode

Charles Rhode, Chairman

Dated: 8-30-93

CHEBOYGAN COUNTY BOARD OF COMMISSIONERS, by

, Chairman

RECEIVED

SEP 07 1993

CHEBOYGAN CO. CLERK

Fax Cover Page

To:	**Charles Brown**	**From:**	**Wayne Vermilya**
Company:	**Cheboygan Count**	**Title:**	
Title:	**Controler**	**Company:**	**Home**
Fax #:	**+1 (231) 6278881**	**Address:**	**20515 Six Mile Hwy. Onaway, MI**
Date:	**10/06/99**	**Fax #:**	**517-733-2462**
		Voice #:	**517-733-2462**

Subject:

Pages including cover page: 30

Notes:

Charlie,

Please provide copies of this for your board members. I had assumed that the planning committee was more in touch with what was going on. I will be requesting an opportunity to address the board of commissioners at an upcomming mtg. regarding these issues.

If you have any questions, please call

Thank you,

Wayne

HERRINTON, MENEZES & SMATHERS, P.C.
ATTORNEYS AT LAW

1200 SOUTH MITCHELL STREET
CADILLAC, MICHIGAN 49601
(616) 775-0147 Fax (616) 775-0213
e-mail marco@lawnorth.com
http://www.lawnorth.com

Marco S. Menezes
Mark E. Smathers

James C. Herrinton
OF COUNSEL

File No. 10360

July 26, 1999

Office of the Director
Michigan Department of Environmental Quality
Hollister Building
106 W. Allegan, P.O. Box 30473
Lansing, MI 48909-7973

RE: Request for Declaratory ruling – Elk Run Landfill, Presque Isle County, Michigan

Dear Sir or Madam:

Enclosed for immediate action please find the referenced request for a declaratory ruling, made pursuant to the Michigan Administrative Procedures Act.

Very truly yours,

Marco S. Menezes

c.c.: Jim Sygo, Waste Management Division – Lansing
John Ozoga, Waste Management Division – Grayling
Wayne Vermillya, Presque Isle County Commission
Wayne Berry, Allis Township Board

enclosures

COPY

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY

REQUEST FOR DECLARATORY RULING

TO:
OFFICE OF THE DIRECTOR
DEPT OF ENVIRONMANTAL QUALITY
HOLLISTER BUILDING
106 WEST ALLEGAN
LANSING MICHIGAN 48909-7973

NAME	STREET	
Marco S. Menezes, Attorney at Law	1200 South Mitchell Street	
CITY	STATE	ZIP CODE
Cadillac	Michigan	49601

I (the above) request a declaratory ruling in regards to:
(Indicate below in appropriate space whether request relates to and Act, Administrative Rule, or Director's Order, if known.)

ACT	P.A.	SHORT TITLE
MCL 324.11501 et seq	1997 PA 451	Part 115, Solid Waste Management
ADMINISTRATIVE RULE	TITLE	
COMISSION ORDER (TITLE)		
DIRECTOR'S ORDER (TITLE)		

PLEASE state specific questions or request (Administrative, enforcement, interpretive, other):

See Attached.

DATE	SIGNATURE
July 26, 1999	
TITLE IF SIGNING FOR ORGANIZATION	ORGANIZATION
Marco S. Menezes, Attorney at Law	Allis Township Board of Supervisors

COPY

AUTHORITY

This Request for a Declaratory Ruling, directed to the Waste Management Division of the Michigan Department of Environmental Quality ("the Agency"), is made on behalf of the Allis Township (Presque Isle County, Michigan) Board of Supervisors ("the Board"), pursuant to section 63 of 1969 PA 306, the Michigan Administrative Procedures Act, MCL 24.263.

The Board requests the Agency to render its interpretation of the applicability of the Michigan Solid Waste Management Act ("SWMA"), MCL 324.11501 et seq, and administrative rules promulgated thereunder to the facts set forth below.

FACTS

1) Antrim County, Michigan, has adopted a Solid Waste Management Plan pursuant to the Michigan Solid Waste Management Act [MCL 324.11501 et seq] which has been approved by the Agency's Director as required by the SWMA.

2) Presque Isle County, Michigan has also adopted a Solid Waste Management Plan pursuant to the Michigan Solid Waste Management Act which has been approved by the Agency's Director.

3) The Antrim County Solid Waste Management Plan, as adopted and approved, does not provide for disposal of Antrim County wastes in Presque Isle County.

4) The Presque Isle County Solid Waste Management Plan, as adopted and approved, also does not provide for disposal of Antrim County wastes in Presque Isle County.

5) A solid waste disposal agreement does exist between Charlevoix County and Presque Isle County, pursuant to each respective County's Solid Waste Management Plan.

6) "Top Rank Disposal" is a solid waste hauler operating in Antrim, Charlevoix and Presque Isle Counties, which owns and operates a transfer facility in Charlevoix County.

7) The Board and the Agency have obtained reliable information showing that Top Rank Disposal is hauling waste generated in Antrim County to its transfer facility in Charlevoix County for ultimate disposal in the Elk Run Landfill, located in Allis Township, in Presque Isle County.

8) The Allis Township (Presque Isle County, Michigan) Board of Supervisors is an "interested person" in this case, under the meaning of that term as contemplated by the Michigan Administrative Procedures Act [MCL 24.205(5); MCL 24.263]

SPECIFIC QUESTIONS

1) Is Top Rank Disposal violating the Antrim and Presque Isle County Solid Waste Management Plans by disposing of Antrim County waste in Presque Isle County via its Charlevoix County transfer facility? If so, then,

2) Is Top Rank Disposal in violation of the SWMA, specifically, MCL 324.11513, 324.11529(2), 324.11538(6) and (7) by conducting unauthorized disposal of Antrim County waste in Presque Isle County? If so, then;

3) Does the Agency have a legal duty to enforce the Michigan Solid Waste Management Act, and the applicable provisions of the Antrim and Presque Isle County Solid Waste Management Plans? If so, then;

4) Does the Agency intend to enforce the Michigan Solid Waste Management Act and the applicable provisions of the Antrim and Presque Isle County Solid Waste Management Plans on the facts of this case?

July 19, 1999

Marco S. Menezes (P43539)
HERRINTON, MENEZES & SMATHERS, P.C.
Attorneys for Allis Township

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING PO BOX 30473 LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

September 10, 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Marco S. Menezes
Herrinton, Menezes & Smathers, P.C.
1200 South Mitchell Street
Cadillac, Michigan 49601

Dear Mr. Menezes:

This letter is written in response to your July 26, 1999, Request for Declaratory Ruling (Request) regarding the Elk Run Landfill in Presque Isle County, Michigan. The Request was filed with the Department of Environmental Quality (DEQ) on behalf of the Allis Township (Presque Isle County) Board of Supervisors. The request concerned alleged violations of the Antrim County and Presque Isle County Solid Waste Management Plans by Top Rank Disposal. It was alleged that Top Rank Disposal was accepting waste generated in Antrim County at its transfer facility in Charlevoix County for ultimate disposal in the Elk Run Landfill located in Allis Township, Presque Isle County, contrary to the Antrim County and Presque Isle County Solid Waste Management Plans' requirements.

A request for declaratory ruling is governed by Section 63 of the Administrative Procedures Act, 1969 PA 306, as amended, MCL 24.263. In part, that section provides:

> "On request of an interested person, an agency may issue a declaratory ruling as to the applicability to an actual state of facts of a statute administered by the agency or of a rule or order of the agency."

A declaratory ruling is generally appropriate only where there is a clearly established set of facts and the person requesting the ruling needs to know how the agency will apply a statute, rule, or order to those actual facts so that the person may guide his or her future conduct in that situation. Your Request contains allegations that Top Rank Disposal has violated county solid waste management plans, rather than stipulated facts upon which a decision can be rendered. In addition, your Request seeks an interpretation of the county plans, not a specific provision of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), or the Part 115 administrative rules. Finally, it does not appear from your Request that the requested ruling is needed by the Allis Township Board of Supervisors in order to ascertain the Township's legal responsibilities under Part 115 or to guide the Township's future conduct under the statute. Instead, your letter focuses on alleged violations of county plans by a third party.

Under these circumstances, the DEQ does not believe that the declaratory ruling provision of the Administrative Procedures Act is applicable and, therefore, declines your request for a declaratory ruling.

However, to the extent that your letter was intended to request that the DEQ investigate or take enforcement action regarding alleged violations of Part 115 of the NREPA, its rules, or the county plans, and you have information that supports those allegations, please submit that information to Mr. Phil Roycraft, District Supervisor, Cadillac District Office, Waste Management Division, DEQ, 120 W. Chapin Street, Cadillac, Michigan 49601, for follow-up by the DEQ.

Sincerely,

Russell J. Harding
Director
517-373-7917

cc: Mr. Wayne Vermilya, Presque Isle County Commission
Mr. Wayne Berry, Allis Township Board
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Jim Sygo, DEQ
Mr. George Bruchmann, DEQ
Mr. Frank Ruswick, DEQ
Ms. JoAnn Merrick/Mr. John Craig, DEQ
Ms. Joan Peck/Mr. Seth Phillips, DEQ
Mr. Phil Roycraft, DEQ-Cadillac
Mr. John Ozoga, DEQ-Grayling
Ms. Rhonda Oyer Zimmerman, DEQ

Commercial Containers

Size (Yard)	Street Number	Street Name	City	Name
3	9943	Church Rd	Atwood	Residential Dwelling
4	9843	US 31	Atwood	Atwood General Store
3	10950	US 31	Atwood	Northern Michigan Well Drilling
3	5333	Farrel Rd	Eastport	Residential Dwelling
3	8020	Peebles Rd	Eastport	Residential Dwelling
6	9557	Peebles Rd	Eastport	Residential Dwelling
6	10036	Peebles Rd	Eastport	Residential Dwelling
4	6165	US 31	Eastport	Residential Dwelling
2		US 31	Eastport	Just South Of Bennett Rd.
3		US 31	Eastport	Sneekins
3		US 31	Eastport	Torch Cove Cottages
3		US 31	Eastport	Brownwood Acres
6		US 31	Eastport	Vacation Properties Real Estate
3	7995	Essex Rd	Ellsworth	Residential Dwelling
2	8005	Essex Rd	Ellsworth	Residential Dwelling
4	8095	Essex Rd	Ellsworth	Residential Dwelling
3	9497	Lake St	Ellsworth	Residential Dwelling
2	9500	Lake St	Ellsworth	Residential Dwelling
2	7247	Rushton Rd	Ellsworth	Residential Dwelling
6	3535	Six Mile Lake Rd	Ellsworth	Residential Dwelling
4			Ellsworth	Ellsworth Hardware
4			Ellsworth	Golden Nugget Bar
4			Ellsworth	Ellsworth Farmers Exchange
6			Ellsworth	Ellsworth Village Market
2			Ellsworth	Howes & Howes Trucking

Totes

Size (Gal.)	Street Number	Street Name	City	Name
96	8468	Atwood Ellsworth Rd	Atwood	Residential Dwelling
96	11247	Atwood Ellsworth Rd	Atwood	Residential Dwelling
96	10460	US 31	Atwood	Residential Dwelling
96	5983	M-66	Eastport	Residential Dwelling
96	9733	M-66	Eastport	Residential Dwelling
96	6204	Ash	Ellsworth	Residential Dwelling
96	7661	Atwood Rd	Ellsworth	Residential Dwelling
96	9310	Elm St	Ellsworth	Residential Dwelling
96	9333	Lake St	Ellsworth	Residential Dwelling
96	9660	Lake St	Ellsworth	Residential Dwelling
96	6731	Lincoln St	Ellsworth	Residential Dwelling
96	9255	Main	Ellsworth	Residential Dwelling
96	10639	Old Dixie Highway	Ellsworth	Residential Dwelling
96	11760	Old Dixie Highway	Ellsworth	Residential Dwelling
96	9251	Park	Ellsworth	Residential Dwelling
96	12385	Richardson Rd	Ellsworth	Residential Dwelling

Representative sample of Antrim County customers being serviced by Top Rank Disposal which is being unloaded into the transfer station owned by Top Rank in Charlevoix County and subsequently delivered to Elk Run Landfill in Presque Isle County.

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners
20515 Six Mile Hwy.
Onaway, MI 49765
July 24, 1999

Mr. John Ozoga
Route 3, 1955 N. I-75 BL
Grayling, MI 49738

Dear Mr. Ozoga:

Enclosed please find copies of photos taken on the evening of July 21, 1999, of the north face of the Elk Run Landfill. These are the same photos that were sent to you by e-mail. As you can see there is no daily cover over the exposed waste which had been dumped over the side of the slope.

I had recieved a complaint from a citizen who had seen the situation earlier in the day from Hackett Lake Hwy. Upon seeing the condition that evening I contacted the DNR Pollution Hot Line and filed a complaint. When there was no response from the DNR I then contacted the Presque Isle County Sheriffs Dept. and requested that officers accompany Allis Twp. Trustee Al Grzesikowski and myself to view the situation. At approximately 9:30 that evening Sergent Jerry Chrzan, Deputy Darin Rabeau, Al Grzesikowski, and myself went to the south fence of the Price farm and confirmed that there had been no daily cover placed and that dumping over the side of the side slope had occured. They entered the time in their log and will testify as to what the condition of the landfill was at that time.

Also enclosed are photos taken on July 23, 1999 of the same area of the landfill. It appears that inadequate cover had been placed that day as well. Note the exposed debris which includes a tire among other waste.

Please provide me copies of all paperwork relating to this matter so that I may be assured that the facility is operated in compliance with the CONSENT ORDER WMD Order No. 115-09-96 and all provisions of the (Solid Waste Act).

Thank you for your prompt attention to this matter.

Sincerely:

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners

cc	Presque Isle County Board	Allis Twp. Board	Menezes
	Rep. Neuman	Mont.Osc.Alpena	Waste Mgt
	Charlevoix County	Emmet County	

STATE OF MICHIGAN

JOHN ENGLER, Governor
DEPARTMENT OF ENVIRONMENTAL QUALITY
"Better Service for a Better Environment"
HOLLISTER BUILDING, PO BOX 30473, LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us
RUSSELL J. HARDING, Director

REPLY TO:
GRAYLING OFFICE
1965 NORTH I-75 BUSINESS LOOP
GRAYLING MI 49738

June 24, 1999

Mr. Jason Pickerman, Divisional Manager
Tri-County Refuse Service, Inc.
P. O. Box 343
Birch Run, Michigan 48415

Dear Mr. Pickerman:

SUBJECT: Elk Run Sanitary Landfill, Presque Isle County, License No. 8473

On May 26, 1999, Department of Environmental Quality (DEQ) staff inspected the Elk Run Sanitary Landfill located in Section 5, Allis Township, Presque Isle County. The purpose of the inspection was to evaluate compliance with Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, Michigan Compiled Laws (MCL) 324.11501 *et seq.*; rules promulgated thereunder; and License No. 8473. A copy of the inspection report is enclosed.

In general, the landfill appeared to be operated and maintained satisfactorily. The only deficiency noted was a minor litter problem along the eastern boundary of the site in violation of Part 115, Rule 426(3). In addition, erosion rills were noted along the northern and southern interim side slopes of the active cells. In order to avoid having stormwater come into contact with refuse, you must repair the erosion rills as soon as possible.

The inspection also revealed that the active fill area is approaching final grade. Unless a new cell is constructed during this construction season, it maybe necessary to close and place final cover over the landfill before next spring in order to avoid significant violations of the Part 115 regulations.

By July 15, 1999, please summarize in writing to this office the corrective actions taken to address the aforementioned violations and inform us on the proposed 1999 construction schedule for the landfill.

This letter does not preclude nor limit the DEQ's ability to initiate any other enforcement action, under state or federal law, as deemed appropriate.

If you have any questions please feel free to contact John Ozoga at 517-348-6381 or myself.

Sincerely,

Philip R. Roycraft, P.E.
District Supervisor
Waste Management Division
231-775-3960 ext. 6200

Enclosure

cc: Mr. Chad Crawford, Site Manager – Onaway
Mr. David Barclay, Vice President – Ft. Lauderdale
Presque Isle County Board of Commissioners
Mr. John Ozoga, WMD, Grayling
File/c.file

EMCON
33101 Schoolcraft Road • Livonia, MI 48150 • (734) 524-9610 • Fax (734) 524-9611

Attn Wayne Vermilya
From: John Ozoga
p 1d

August 11, 1999
Project 86927-001.000

John J. Ozoga III
Michigan Department of Environment
1955 North I-75 BL
Grayling, Michigan 49738

RECEIVED
AUG 16 1999
MDEQ-GRAYLING

Re: Elk Run Landfill
Presque Isle County, Michigan

Dear Mr. Ozoga:

EMCON is submitting this letter on behalf of Republic Services of Michigan, Inc. (RSM) in response to your June 24, 1999 letter to RSM and discussion during a July 16, 1999 meeting between yourself, RSM, and EMCON. At the July meeting, you agreed to an extension of the response to the June 24, 1999 letter until August 15, 1999.

The following items address the June 24, 1999 comments:

1. Litter on the eastern side has been cleaned up and properly disposed of in the landfill.
2. Erosion rills on the northern and southern interim sideslopes have been repaired. In order to control future erosion, RSM plans to seed and vegetate the existing completed interim slopes shown in Drawing 1 (attached) this year.
3. Based on the attached Plan of Operation, Drawing 1, only a small portion of the existing landfill on the east side would be at final grade. Since this area is less than 1 acre, it is not practical to place final cover over such a small area. RSM will manage stormwater from the active disposal area without interim cover by grading and construction of berms.
4. Based on a June 7, 1999 survey, and the proposed interim slopes shown in Drawing 1 attached, approximately 49,000 cubic yards of in-place (bank) disposal capacity remains in the existing constructed area with allowance for an operational area at the top of the landfill. This capacity is expected to provide disposal service through June 2000 at present disposal rates. RSM plans to construct a new landfill cell from May 2000 to June 2000 to provide continued disposal service at the Elk Run Landfill. Prior to completion of the new cell, RSM will monitor waste disposal volumes and

make adjustments as necessary to ensure disposal capacity is provided for its customers with priority given to Presque Ile County.

As agreed during the July 16, 1999 meeting, RSM conducted test pits to verify interim cover exists on all completed interim slopes. The test pits confirmed that all completed interim slope areas have a minimum of 12 inches of soil cover. Locations of the test pits and thickness of observed cover are shown in Drawing 1.

Based on the information stated above, RSM believes all issues discussed in your June 24, 1999 letter have been satisfactorily addressed. If you have any questions, please contact Mr. Matt Neely, General Manager Landfills, RSM at (734) 654-3615.

Sincerely,

EMCON

Jim Walker, P.E.
Solid Waste Services Manager

Attachment: Plan of Operation, Drawing 1

cc: Matt Neely
Gary Brown

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

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INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:
GRAYLING OFFICE
1995 NORTH I-75 BUSINESS LOOP
GRAYLING MI 49738

September 1, 1999

RECEIVED
SEP 02 1999
PRESQUE ISLE COUNTY CLERK

Mr. Matt Neely, General Manager
Republic Services of Michigan I, LLC
P.O. Box 834
New Boston, Michigan 48164-0634

Dear Mr. Neely:

SUBJECT: Elk Run Landfill, Presque Isle County

On August 26, 1999, the Department of Environmental Quality (DEQ) received the proposed design amendments entitled "Cell B Construction Plans" dated July 1999 and Construction Quality Assurance Plan dated August 1999 for the next cell at the Elk Run Landfill. The engineering plan amendments, prepared and sealed by Mr. Jim Walker, P.E., EMCON Consultants, has been reviewed and approved by the DEQ for Cell B. These amendments shall be incorporated into the facility engineering plans approved under Construction Permit Number 0265, dated July 7, 1992. A copy of the engineering plan amendments shall be included in the Operating Record for the landfill.

On August 16, 1999, our office received your response to the DEQ's June 24, 1999 letter concerning operation violations at the landfill. Your response and actions appears to have adequately addressed violations cited. In addition, you appear to have demonstrated that the landfill has adequate disposal capacity to extend operations to the spring of 1999 without constructing a new cell.

As you are aware, the DEQ will closely monitor the compliance status of the facility as final grades are reached in the existing cell.

If you have any questions, please feel free to contact me.

Sincerely,

John J. Czopa, III
Senior Environmental Engineer
Waste Management Division
517-348-6381, Extension 7205

cc: Mr. Rod Crawford, Elk Run Landfill
Presque Isle Board of Commissioners
Mr. Phil Roycraft, WMD, DEQ
Mr. Scott Conradson, WMD, DEQ
File/c.file

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners
20515 Six Mile Hwy.
Onaway, MI 49765
July 17, 1999

To the Editor Advance and Outlook:

Just when it seemed that Joe Hefele might be coming into his own as a journalist, he fell for one of the oldest tricks in the book, the ol' smoke and mirror diversion. At the Presque Isle County Board of Commissioners meeting on July 14, 1999, there were issues worthy of the public's interest. Newsworthy to Joe however, was the fact that Wayne Vermilya District 1 Commissioner, Presque Isle County Board of Commissioners, had written a letter using his so called controversial letterhead to the DEQ requesting that the regulatory agency (DEQ) do its job and enforce sections of Part 115 of Public Act 451 (the Solid Waste Management Act).

Joe had been given information supporting a resolution to file a "Breach of Contract Action" in the Circuit Court for Charlevoix County's failure to comply with the terms of the Solid Waste Disposal Agreement between Presque Isle and Charlevoix Counties. The Charlevoix county landfill is not being allowed by the county to expand, the county is not promoting a county recycling / household hazardous waste collection program, or maintaining quaranteed siting criteria in their solid waste plan, all terms of the (Agreement.) The resolution was introduced at the meeting upon the advice of Assistant Prosecutor Grey as the only way to sufficiently address the issue if Charlevoix County refuses to agree to terminate the agreement.

He also had in his possession a copy of the letter from the District Supervisor (DEQ) informing Republic Waste, owners of the Elk Run Landfill, that they were in violation of specific sections of the (Solid Waste Act) and requesting, as I had in my letter, a timetable by which the company would be complying with the law! The public didn't need to know any of this?

Incidently, the letter is dated prior to Mr. Crawford's appearance before the Presque Isle County Board of Commissioners on June 25, 1999. At that meeting, if you remember, Mr. Crawford led the Presque Isle County Board to believe that the landfill was a "Class A" landfill. He also threatened to sue the county board of they didn't stop me from using my letterhead.

As for my letterhead, **I have never misrepresented the Presque Isle County Board of Commissioners.** Is it interesting that the issue of my letterhead seems to pop up only when serious landfill concerns are brought to the public's attention?

Mr McLennan's opinion, that my letterhead is improper, is based upon no law, rather, some nonsense about township officials using "official looking" stationary. My letterhead is not "official *looking.*" It ***is*** official letterhead, ***my*** official letterhead! If the Presque Isle County Board of Commissioners attempt to censure me for doing the job that I (and they) were elected to do. I will most certainly do whatever is necessary to defend the First Amendment to the Constitution, my name, and the oath of the office that I hold.

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners

Current Char. Co. Plan

Resources.

The signed agreements between the Charlevoix County Board of Commissioners and the _____ County Board of Commissioners shall include at a minimum the following conditions:

1) _____ County make provisions in the _____ County Solid Waste Management Plan, to accept all solid waste generated in Charlevoix County , for disposal at facilities in _____ County, or Facilities in other counties, should the need arise for Charlevoix county to do so.

2) _____ County make provisions in its Solid Waste Management Plan to provide a mechanism to site both a Type II and Type III Landfill (private or public owned and operated) within the boundaries of _____ County, that are open to the general public of both _____ County and Charlevoix County and private refuse collection companies serving the general public of both _____ and Charlevoix Counties for the purpose of accepting solid waste generated in the two Counties.

3) The rates charged at any facilities subsequently opened in _____ County be the same for private individuals [redacted] and commercial collection companies in Charlevoix County as they are or will be (for the facilities yet to be developed) in _____ County.

[redacted] that this language, or language having the same meaning be included in the _____ County Solid Waste Management Plan, and that this agreement will be approved by the _____ County Board of Commissioners and the Charlevoix County Board of Commissioners, prior to January 1, 1990, in order for _____ County to be included in the Charlevoix County Solid Waste Plan; furthermore, reciprocal agreements shall be established with ____ [redacted] shall be valid for a period of five years that shall commence with the shipment of intercounty waste.

In addition to the counties listed above, the Charlevoix County Board of Commissioners are authorized to sign reciprocal agreements with counties that have licensed solid waste disposal sites and/or incinerators for the purposes of providing a backup facility for Charlevoix County.

Two additional Type III Landfills may be developed in the County with one of these to be located on Beaver Island and the other to be located within a 6 mile radius of Advance.

The following criteria must be adhered to by any individual, governmental or private entity that would desire to construct a Type II Landfill in Charlevoix County.

Soils - Landfills shall not be constructed in any area which is classified a wetland or floodplain as defined

under 1979 Public Act 203 (as amended), 1929 Public Act 245 (as amended), by the Michigan Department of Natural Resources or by any division of the United States Government.

Distance from Surface Water - A minimum of 2000 feet isolation distance from lakes and/or permanent flowing bodies of water and 500 feet from any water impoundment and/or intermittent flowing bodies of water as depicted on the Michigan Resource Inventory System (MIRIS) maps for Charlevoix County dated 8-25-89. These requirements do not apply to drains and sedimentation ponds.

Distance from Groundwater - If it appears from readily available information that a proposed landfill will be able to meet Act 641's requirements for groundwater isolation in effect when a determination of Plan consistency is made, the proposal is consistent with this siting criterion. If readily available information indicates that the project is unlikely to meet legal requirements for groundwater isolation, the proposal is inconsistent with this siting criterion. Favorable technical data obtained subsequent to a finding of inconsistency may be a basis for requesting a redetermination from the County. Technical data for projects found consistent will be evaluated by the State as part of Act 641 construction permit review.

Distance from Residential Development - A minimum distance of 1,500 feet shall be maintained from the boundary of the active fill area of any permitted landfill to any dwelling which exists prior to the 1st formal action to develop a new landfill. A landfill may be exempted from this requirement provided the owner of the proposed facility either purchases or obtains waivers of this requirement from the owners of all dwellings within 1500 feet of the active fill area.

Distance from adjoining property lines - A minimum distance of 150 feet shall be maintained from the boundary of any active fill area.

Proximity to Service Area - If multiple sites are proposed or considered by developers, central location to the service area is desirable, but would only come into use to rate sites that are otherwise consistent with these criteria.

Distance from Airports - A minimum of 10,000 feet of horizontal isolation from any runway at an airport licensed by the Aeronautics Division of the Michigan Department of Transportation.

SANITARY LANDFILL

A properly operated landfill is the least costly means of disposing of waste with the least impact upon the public health of all the proven methods of disposing of waste that are available today. While some risks to the public health do exist from the operations of landfills, so too, do they exist for other waste disposal methods as well. The key term is that of disposing of waste. The less waste that is generated the less will be the need for additional amounts of landfill space. The ability to site landfills is a continuing problem that will get worse as time goes on, especially in those instances whereby wastes generated in one area are disposed of in other areas. Given the current amounts of waste generated in Charlevoix County, it may be necessary to accept waste generated in other counties to maintain sufficient revenues for a landfill to be operated in an environmentally safe manner. The life span of the Charlevoix County Landfill Inc. is estimated to be six to seven years given the current volume of 800 to 1000 cubic yards of waste that are presently being disposed of at the facility. The waste is presently coming into this facility from Charlevoix, Emmet, Antrim, Kalkaska, Grand Traverse, Leelanau, Otsego, Crawford, and Manistee Counties. The waste is coming into the Charlevoix County Landfill Inc. from other counties as well. [redacted] of waste from each of the counties varies. In the case of many counties listed above, the waste is a specific type that either can not be disposed of at, or is not allowed into the landfills in those counties by those parties owning or [redacted] the landfills.

Approximately 30% of the waste disposed of in the Charlevoix County Landfill Inc. comes from Emmet County with another 30% originating in Charlevoix County. The remaining 30 to 40% comes in from other locations. With a reduction of the volume of waste entering this landfill from 800 to 1000 yards a day to a range of 533 to 666 [redacted] the life span of this landfill should increase to in the vicinity of 8 to 10 years. If the decision is to retain the current service area as currently is using the landfill, or to reduce it to a lesser service, (next five years) disposal needs of the county will be met. However, the decision as to whether to restrict the service area and by how much will determine to a large extent how quickly we must move to make provisions for the waste disposal needs of the county for the long term planning period (five to twenty year).

Based upon the decisions of the Charlevoix County Solid Waste Management Planning Committee, the service area of the Charlevoix County Landfill Inc. will be the two Counties of Charlevoix and Emmet. At such time as the landfill reaches capacity, Charlevoix County will transport the waste generated in this county to the Emmet County Transfer Station or some other type of facility for the transfer or disposal of the waste for the five to twenty five

not P.I.

year time period. At the conclusion of that twenty five year time period, Charlevoix County will then serve as the host for the solid waste facility for the next twenty year time period, with Emmet County then serving as the host for the next twenty year time period. This decision will be evaluated after Emmet County has hosted or other wise provided for the disposal of the Charlevoix County garbage for a twenty year time period, or as is other wise felt to be in the best interest of both Charlevoix and Emmet Counties.

COLLECTION

The costs to an individual who hauls his own waste will vary tremendously depending upon the distance to the site, amounts of waste, and fees charged at the landfill. Waste that is collected by a private collection company or municipal crew can use two locations for collecting residential waste, with each location having different costs. Curbside collection of waste is the quickest and least expensive. A curbside collection method requires that each waste generator takes his waste to the side of the road on days when the collection vehicle is on that route. The second method, known as backyard, or door to door collection, offers a greater level of convenience to the waste generator, but also costs the hauler more, which is passed on to the generator. (Phone conversation with Geneva Canfield of Houghton Lake, Mich., owner of a solid waste collection company. Costs are approximately 50% greater for backyard or door to door collection service. A study undertaken in the early 80's by Public Technology Inc. indicates costs for backyard service in urban areas are 25.1 to 38.4% higher than for curbside service.)

TRANSPORTATION

Transfer stations and their transporting units have no impact upon the public health nor upon the environment. These facilities are generally very easy to locate, have the effect, if properly sized and placed, to reduce the amount of energy consumed by vehicles transporting waste to processing or disposal sites.

The costs of a green box transfer station range from $15,000 to $30,000, with land being the major cost. Once the land has been acquired and improvements made, boxes (costing approximately $1,000) each are located at the site. The land, fencing, labor, and the hauler's costs will vary from area to area, but this setup is generally less costly than other types of facilities for communities generating small quantities of waste.

The second type of transfer station contains a compactor and a large volume container for receiving the wastes. Small compactor transfer stations that only accept individual wastes that is

From Current PIC Plan

B. A landfill will only be considered for a parcel that has at least 80 acres.

C. A landfill shall not be developed within the 100-year floodplain of waters in Presque Isle County. The 100-year floodplain is defined in P.A. 245 of 1929 as amended by P.A. 167 of 1968. For purposes of evaluation, floodplain areas shall be defined by maps prepared and available through the Michigan Department of Natural Resources, Land and Water Management Division.

D. A minimum of 300 feet, measured horizontally will be maintained as isolation buffer from wetlands, lakes of five acres or more in size, and navigable rivers or streams to the landfill area. For these purposes, wetland areas shall be defined by the Goemaere-Anderson Wetland Protection Act, P.A. 203 of 1979.

E. A landfill shall not be developed within 10,000 feet from a runway used by turbine-powered aircraft at a FAA certified airport.

F. A landfill shall not be developed within 5,000 feet from a runway that is used by piston powered aircraft at an FAA certified airport.

Population Density:

If a radius of 2000 feet is drawn from the perimeter of the active fill area proposed for landfilling, and if that encompassed area contains more than 25 dwelling units, the area would not be eligible for landfill development.

Site Development:

Sufficient land should be available to meet environmental regulatory requirements and to amortize equipment, buildings, and other capital expenditures over a reasonable design life. This provides reasonable tipping fees. In review of the appropriateness of a landfill proposal, the County shall use the following isolation distances for the active fill area from adjacent land uses or property lines that are present at the time of application.

SAFE Amendment

Page B-6

(Last paragraph)

Location:

A. A landfill will only be developed in forest and recreational agricultural or industrial zoning districts unless a County Planning Commission analysis of County and Local Zoning Ordinances demonstrates excessive acreage in other districts having undeveloped parcels.

Page B-7

B. A landfill will be considered for a parcel only if such parcel contains no less than 80 acres [redacted]

D. A minimum of [redacted], measured horizontally, will be maintained as an isolation buffer from wetlands, lakes of five acres or more in size, and navigable rivers or streams to the landfill area. For these purposes, wetland areas shall be defined by the Goemaere-Anderson Wetland Protection Act, P.A. 203 of 1979.

(Add Subparagraph G)

[redacted] is required. Submit a statement signed by a geologist with karst background specific certifying

Page B-7.1

Land Use	County Minimum Standard Setback	State Legislative Minimum Standard Setback
A. Road right-of-way Commercial Bldg. Industrial Land Use Agricultural Structures and Cultivated Fields Vacant Lot on Existing Platted Areas	[redacted]	100'
B. Existing Domiciles	[redacted]	300'

(C, D, & E: No changes)

Page B-8

URAL RESOURCES COMMISSION
LARRY DEVUYST
PAUL SIEBLE
JAMES P. HILL
DAVID HOLLI
O. STEWART MYERS
JOEY M. SPANO
JORDAN B. TATTER

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

Stevens T. Mason Building, P.O. Box 30028, Lansing, MI 48909

ROLAND HARMES, Director

February 17, 1993

Mr. Charles A. Rhode, Chairperson
Presque Isle County Board
of Commissioners
3374 West 638 Highway
Rogers City, Michigan 49743

Dear Mr. Rhode:

The Department of Natural Resources (DNR) has completed its review of the locally approved amendment to the Presque Isle County Solid Waste Management Plan Update. Based upon that review, the DNR hereby disapproves the amendment to the Presque Isle County Solid Waste Management Plan Update in accordance with the Solid Waste Management Act, 1978 PA 641, as amended (Act 641), Section 29(1) and Administrative Rule 299.4709(4). The amendment is disapproved for non-compliance with Act 641, Section 13a, Section 30 and Administrative Rule 299.4711. The issues of concern include:

1. The amendment attempts to improperly restrict the siting and operation of solid waste disposal facilities in Presque Isle County.

2. The amendment identifies primary solid waste disposal capacity in Crawford and Otsego Counties that is not available to Presque Isle County in those Plans.

3. The amendment provides municipalities overly broad authority to adopt ordinances that may be unenforceable under Act 641.

4. The isolation distances for wetlands and domiciles are too restrictive and do not guarantee the siting of future solid waste disposal facilities as required by Act 641.

If you have further questions or concerns regarding this letter, please contact Mr. Seth Phillips, Chief, Solid Waste Management Unit at 517-373-4750.

Sincerely,

Roland Harmes

Roland Harmes
Director
517-373-2329

cc: Senator John D. Pridnia
Representative Beverly A. Bodem
Ms. Karen Jackson, Attorney for SAFE
Mr. Rick Duell, NEMCOG
Mr. Ed Hagan, DNR
Mr. Jim Sygo, DNR
Mr. Lonnie Lee, DNR
Mr. Tom Polasek, DNR
Mr. Seth Phillips, DNR
Presque Isle County File

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners
20515 Six Mile Hwy.
Onaway, MI 49765
June 7, 1999

Mr. John Ozoga
MDEQ
Route 3, 1955 N. I-75 BL
Grayling, MI 49738

Dear Mr. Ozoga:

Please find enclosed pictures taken of the Elk Run Landfill on June 1, 1999. Please note that the side slope erosion problems that you identified on your Feb. 19, 1998, inspection have not been addressed by the owner / operators of the landfill. This ongoing problem is a clear violation of the side slope requirements of Part 115 (the Solid Waste Act) which requires a minimum of 24 inches of compacted cover. As we had discussed, it is especially important here in that the toe of these slopes are unlined and the resulting runoff is being treated as storm water.

NPDES permits require that storm water from industrial sites must be tested daily to insure that no pollutants are being released off site, unless a certified storm water operator can verify that all storm water being discharged from the site has not been in contact with "pollutants or other significant materials." As you are aware, not even discoloration or turbidity are allowed under a storm water discharge permit, let alone runoff that has been in contact with raw garbage.

The systems in place to manage the storm water at this facility continue to be grossly inadequate. MEPA (Michigan Environmental Protection Act) provides a mechanism by which such environmental problems can be addressed. Also, a consideration of an administrative procedures review may well be called for here.

Finally, I wish to file a formal complaint with your office that the odors surrounding the dump are extremely objectionable especially in the area near the storm water pond. This indicates to me that perhaps the storm water pond contains leachate as a result of the poor storm water practices employed at the dump.

Please respond in a timely manner as to what measures will be taken to correct these deficiencies and a time table by which to expect implementation of the corrective measures so that I may be assured that this matter will no longer be a threat to the surrounding properties.

Sincerely

Wayne Vermilya

enclosures

cc Phil Roycraft
Presque Isle County Board
Allis Township
surrounding property owners
SAFE
Don McLennan Presque Isle County Prosecutor
District 4 Health Dept. Frank Krist
WMI
Montmorency Oscoda Alpena Landfill Authority
Upper Black River Restoration Committee Bud Slingerland
Tip of the Mit Watershed Council Ann Baughman
MUCC Rick Jameson
Clean Water Action Dave Dempsey
Headwaters Conservency Mike Moreau
US Fish and Wildlife Service Tracy Hill
Huron Pines RC&D
Rep Neumann

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners
20515 Six Mile Hwy.
Onaway, MI 49765

2-19-98 inspection tape transcript (excerpts)

In the parking lot

Mr. Ozoga Don't start your rhetoric shit. I'm the geologist, I'm the engineer, I'm the guy you have to deal with, I'm the king. I sat what goes on here and what doesn't.

The following comments were made as we walked around the site

Mr. Ozoga You also have to pay more if you maintain a 1 on 2 slope. This is costing them top dollar at this slope. If you maintain a lesser slope you get a break for financial assurance.
This is about as steep as I like to see. If we see a sediment problem, I'm dealing withTom's (Polasek) design. Anyway, that's a good concern. The water that goes through the ditch doesn't go into the pond? (west end) Ideally you need to have the water go into a pond.

Chad Crawford
The plans called for a pond but the pond was higher than the cell and it created a problem.

Mr. Ozoga
If they had built the landfill the way we wanted, they would have built the next cell (there) last year. Because of the limited flow they chose not to. I'm personally trying to pressure the company to build the next cell if they want to stay in business. I'm not in a situation where I want to see this stuff stacked up steeper that 1 on 2. I'd say 1 on 2 is as steep as you can go.

Mr. Ozoga
Certainly if you have any evidence of a storm water impact to the creek. Any physical evidence of impacted storm water that's getting off site is certainly a violation.
The more entities involved, the more sampling, the better.
The most significant way to have a problem with the steep pyramids like this is with the run off. You hit upon that exactly. They are required to keep the water on top back in the cell, don't have it run off. The slope has to be maintained if not there is exposed garbage, water runs off, there usually is a limited dike at the toe, water slips over into unlined areas.

Mr. Vermilya

This should be diked up and all of this water is leachate water. Can we sample it?

Mr. Ozoga

You can sample if you would like.

Mr. Vermilya

Do you agree or disagree? That's in contact with the garbage or not?

Mr. Ozoga

I would say that it needs to be diked. Chad (Crawford) do you see what we are talking about?

Mr. Vermilya

Any rain that falls here has to stay here and go down through the garbage into the collection system. Otherwise, it goes over the side down into the ditch and into the creek.

Mr. Ozoga

This needs to be better maintained up on top. If you have adequate interim cover.

Chad Crawford

This is adequate.

Mr. Ozoga

Well you have stuff sticking up out of it.
City Mgt. has a dike all the way around the rim of the top. You have to make sure the garbage is not mixed with the water because they're right, if it runs off it's a problem. Nothing can come from that there. The active area needs to be diked on the top flared around and always graded such that, that water from the contact with the garbage needs to be in a low spot. Always surround the active area with a dike. Cedar Ridge has a dike all around the active area. They have a concern, your next to creeks and swamps and you have to manage. That's a good comment, a good comment. That water is polluted water. Keep all runoff of the active garbage in the hole.

Mr. Ozoga

It's so critical on these side slopes if you have a wash out on these steep slopes it runs off into the ditch around and out. While we constantly brag up liners, perhaps the most significant problem is storm water runoff.

Mr. Vermilya

In the short term.

Mr. Ozoga

Yes, your right.

Mr. Ozoga

Wayne, I'm sorry for biting at you right away there, good comments.

Mr. Ozoga

It is surrounded by wetlands, if you get evidence of impacts.

Mr. Ozoga

Have 80 landfills in MI 42 are clay all are struggling with the same thing, there is good and bad. The big problem is storm water protection. Its a long term thing and the track record for landfills is pretty poor. So you certainly can't say we've got this thing figured out by no means. Cap it maintain the fluids. Once its capped the storm water issue is resolved. Chad (Crawford) that diking around the active area is pretty important.

Mr. Ozoga

Tom (Polasek) should have been on top of this surface water run off for the last 2 years, I'll be paying a lot more attention to this problem in the future.

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners
20515 Six Mile Hwy.
Onaway, MI 49765
February 19, 1998

Mr. John Ozoga
Dept. of Environmental Quality
Route 3, 1955 N. I-75 BL
Grayling, MI 49738

John:

This letter is to follow up on the site inspection of the Elk Run Landfill this afternoon. Thank you for the opportunity to accompany you on your on site inspection and the opportunity to discuss with you the specific concerns that SAFE had raised.

We Identified 3 main areas of concern today. Litter, side slope grades and requirements, and the impact to the storm water runoff (which is discharged into the upper Black River watershed) caused by **leachate from the active fill area which we observed during today's operations**. Water in direct contact with raw garbage was running off the landfill in at least 2 directions into ditches that are intended to control clean storm water. As a result, we discussed the need for extensive sampling and testing of storm water structural controls including a complete heavy metals scan and chemical analysis of the storm water and soil sediments in the near future (spring of 98). You agreed to make available to me the results of those tests when available. I would like also to be present when the sampling is done if at all possible. As we observed today, perhaps the most urgent and serious immediate environmental concern at the site is the release of contaminated storm water into the surrounding Kinney Island Bog and the upper Black River watershed.

The concerns we observed and discussed regarding the side slopes at the site are as follows. You indicated that the current interim slope is 1 on 2, which is steeper than you would prefer but allowed for in the regulations. Rule 299.4316 (2) "One foot of compacted cover ... shall be placed on the surface of any lift that will be exposed for a period of 3 months or more before additional lifts are constructed." We discussed the need to verify also at your next visit that the side slopes are adequately covered.

Finally, I trust that fines will be imposed for the significant violations observed by us and others today. Again, thank you for your concern and assistance in this matter.

Sincerely:

Wayne Vermilya

cc Don McLennan Presque Isle County Prosecutor
Joe Kwiatkowski Cheboygan County Prosecutor
Presque Isle County Board
Allis Twp.
SAFE
District 4 Health Dept. Frank Krist
USA Waste
WMI
Montmorency Oscoda Alpena Landfill Authority
Upper Black River Restoration Committee Bud Slingerland
Tip of the Mit Watershed Council Ann Baughman
MUCC Rick Jameson
Clean Water Action Dave Dempsey
Headwaters Conservency Mike Moreau
US Fish and Wildlife Service Tracy Hill
Bodem
Alley
Lowe
Press

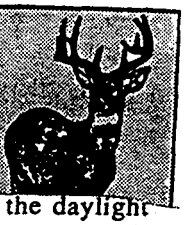
Care key to pre

begins the moment the deer hits the ground.

Before you make the first cut, you should start thinking about what kind of mount you expect to get back from the taxidermist. There are regular antler mounts that only involve the antlers and

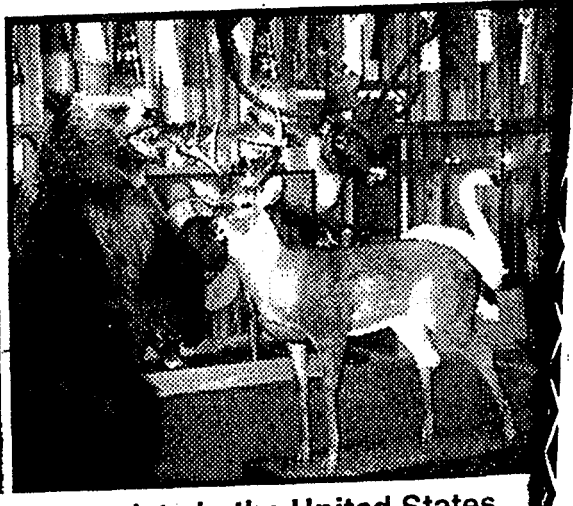
speck of neck roast wh
ing the head, at this po
be better to leave a l
meat for the taxid
remove, rather than tak
of messing the proje
you have gotten this fa

ut the tdoors



being taken during the daylight hours.

Only Certified, Grand Master Taxidermist in Northeastern United States!



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Robert J. Parkey

PARKEY'S TAXIDERMY

4512 Wilson Road • Indian River, MI 49749

616-238-8477

THIS IS THE DIFFERENCE!

NOTICE

The Cheboygan County Solid Waste Planning Committee will be conducting a tour of Northern Michigan Solid Waste Landfills on 12/2/98 beginning at 9 a.m. For more information, please call 517-732-3551 ext. 10.

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While the National Geographic guide says "Rare in fall in the east, accidental in spring. Rare on

Northeast Michigan Council of Governments
NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.m
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 4

Cheboygan County Solid Waste Planning Committee

October 27, 1998
3 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

Agenda

I. Call To Order

II. Members Present

III. Minutes of Previous Meeting

IV. Goal and Objectives Discussion

V. Solid Waste Management Alternatives

A. Collection system
B. Resource Recovery Program
C. Import/Export Authorization

VI. Public Comment

VII. Next Meeting

VIII. Adjournment

ATTACHMENT H

Primary and Contingency Definitions

The following definitions are used in the context of this Plan.

Primary Solid Waste Disposal Site (or Primary): The Solid Waste Disposal facility where solid waste is directed to (within the Solid Waste Plan) on a daily basis.

Contingency Solid Waste Disposal Site: In cases when the primary disposal options are not available, then sites identified as contingency (within the Solid Waste Plan) may be used.

Cheboygan Co SW mail list
9/98

Ken Paquet
6037 Mullett Woods Shore Dr.
Cheboygan MI 49721

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4752 West Burt Lake Rd.
Brutus MI 49716

Ann Baughman
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Conway MI 49722

Charles H. Brown, Controller
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Cheboygan MI 49721

Scott McNeil
PO Box 39
Cheboygan MI 49721

Robert Heilman
317 East Etherington
Mackinaw City MI 49701

Deanna Gilbert
5771 South Black River Rd
Onaway MI 49765

John J. Ozoga, III
DEQ/1955 North I-75
Grayling MI 49738

Charles Maziasz / Aloha Twp
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Cheboygan MI 49721

Bruce Brandt / Benton Twp
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Matthew Schindewolf
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Cheboygan MI 49721

Jeanette Mateer
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Herb Makima, Comm.
Cheboygan County
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Cheboygan MI 49721

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Cheboygan MI 49721

Seth Philips / Chief DEQ
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Charles E. Ostwald
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12091 Paradise Lake
Levering MI 49755

Russell Crawford
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Indian River MI 49749

Patty Mattson
Mentor Twp
11475 Mentor Townhall
Wolverine MI 49799

Charles Antkoviak
Munro Twp
10606 North Extension Rd
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Eric Jacobson / Tuscarora Twp
PO Box 220
Indian River MI 49749

Patricia L. Ogden
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Wolverine MI 49799

Clarence Archambo
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Cheboygan MI 49721

Fred Weeks / Inverness Twp
10386 Inverness Trail Road
Cheboygan MI 49721

Barry Dean / Mackinaw Twp
109 Henry St., PO Box 1104
Mackinaw City, MI 49701

Steven Fitzner
Village of Wolverine
PO Box 247
Wolverine MI 49799

Ralph T. Kemp / Nunda Twp
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Wolverine MI 49799

Marvin Everingham
Walker Twp
3648 M-68 Highway
Afton MI 49705

Tony Matelski
Waverly Twp
6350 Brady Road
Onaway MI 49765

Richard Kolb
7880 M-68
Indian River 49749

Sandy Cunningham, Secty.
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Atlanta, MI 49709

Evelyn Pratt, Clerk
Otsego County
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Gaylord MI 49735

Susan Rhode, Clerk
Presque Isle County
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Jane E. Brannon
Charlevoix Co. Clerk
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Charlevoix, MI 49720

Irene D. Granger
Emmet County Clerk
200 Division
Petoskey, MI 49770

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Mackinaw City, MI 49701

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Cheboygan MI 49721

Lisa Hagerty
M-Con
33101 Schoolcraft Road
Livonia MI 48150

Goal 2: *Provide for the protection of the public's health and the quality of the natural resources: air, land, ground and surface waters, by increasing the overall efficiency of solid waste collection, transportation, and disposal.*

Objective 2a. Develop a cost-effective means for the collection, transportation and disposal of solid waste in Cheboygan County.

A. Explore other counties approaches to maintain competitive solid waste management services, which may include franchising of services, volume based pricing ordinance, etc..

B. Determine methods to maintain solid waste competition.

Objective 2b. Coordinate with Emmet County the collection and disposal of household and agricultural hazardous waste.

A. Biannually, organize and hold a household hazardous waste collection day.

B. Develop and distribute educational materials that describe which wastes classify as hazardous and explain proper disposal methods.

C. Meet with other counties in the region to discuss holding a multi-county collection day.

D. Research available hazardous waste disposal programs.

E. Promote existing hazardous waste programs; i.e. Operation Clean Sweep.

Objective 2c. Enact an anti-blight ordinance to reduce dumping in woods.

A. Draft an anti-blight ordinance to discourage improper disposal of solid waste.

B. On an annual basis, hold clean-up days throughout the county.

B. Enhance system, if necessary through a new ordinance, to discourage illegal dumping of waste.

Cheboygan County Solid Waste Planning Committee

Monday, September 14, 1998
3:30 p.m.
89th District Court Room
Cheboygan County Building

Agenda

I. Introductions

II. Solid Waste Plan Update Review

III. Purpose of Solid Waste Planning Committee

IV. Election of Chair

V. Review of Cheboygan County Solid Waste Management System

VI. Development of Goals and Objectives

- A. Identification of Problems
- B. Brainstorm on goals and objectives

VII. Discussion of Solid Waste Management Alternatives

- A. Collection System
- B. Recycling
- C. Reduction
- D. Disposal
- E. Costs

VIII. Public Comment

IX. Next Meeting

- A. Recycling brainstorming session
- B. Committee meeting date

X. Adjournment

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:

Cheboygan County Solid Waste Goals and Objectives

Goal 1: *Establish and maintain a resource recovery program to reduce the overall dependency on land disposal and to provide for the conservation of natural resources.*

Objective 1a: Develop a plan for county-wide recycling, in coordination with adjacent counties.

A. Meet with Emmet County to develop an agreement for utilizing the Emmet County Processing Facility for processing of Cheboygan County's materials.

B. Determine type of collection system: drop-off centers, curbside.

C. Determine transportation system needed for selected system.

D. If drop-off centers, determine location, equipment, operation, and transportation needs.

E. Determine budget.

Objective 1b: Investigate a partnership with municipalities and private companies for operations and transportation needs of the drop-off centers.

A. Organize a meeting with municipalities and private companies to discuss roles and partnerships for recycling program implementation.

B. Develop agreements with participating municipalities and private companies.

Objective 1c: Develop a funding mechanism to support the county-wide recycling program which may include a recycling fee, or a surcharge on solid waste.

A. Explore alternatives for funding the county-wide recycling program.

B. Determine best funding mechanism for Cheboygan County.

Objective 1d: Develop a comprehensive resource recovery education program to o increase the understanding of the benefits of reducing, reusing, and recycling solid wastes. The program will target schools, organizations, business, local government and the general public, etc

A. Institute a semi-annual newsletter on the "how- to's" of recycling.

B. Meet with Emmet County to coordinate educational efforts.

C. Determine educational dissemination strategy utilizing area service agencies and organizations.

D. Gather available information for local dissemination.

E. Designate an office where the public can direct questions about solid waste management and where they can obtain printed educational materials.

Objective 1e. Expand and improve composting opportunities in Cheboygan County.

A. On an annual basis, disseminate educational information to the general public on composting opportunities and backyard composting techniques.

B. Determine areas in need of composting sites.

C. Establish composting sites at selected locations.

Cheboygan). Curbside collection costs (Waste Management prices) are: curbside - $19.00/month; City Residents - $16.50/month. Transfer station costs vary per township. Cleanup days sponsored by the townships are offered in many of the townships.

Final disposal (see handout) is allowed by the Plan at the Montmorency Oscoda Sanitary Landfill (MOSL), Waste Management, Inc. in Waters, Elk Run/Waste Management, Inc. in Onaway. The Onaway Landfill, as a condition of the Waste Management merger, will be divested.

Roger Frye, County Commissioner from Montmorency County then provided an update on the MOSL. The landfill is municipally owned by Montmorency and Oscoda counties with Alpena County recently joining in ownership. An Authority has been established with two representatives from each county on the Authority (one of the two must be an elected official). The landfill has incorporated many new techniques and are looking at additional measures to reduce costs. The Landfill Authority recently approved the formation of a multi-county recycling subcommittee to implement a comprehensive recycling program in Montmorency, Oscoda, Alpena, Presque Isle and Alcona counties. the landfill is currently establishing a program for alternate tire disposal and household hazardous waste. Tipping Fee rates are currently $10.00 per cubic yard.

Ken Paquet, of Waste Management, updated the committee on the Waste Management Landfill in Waters, MI (formerly Crawford-Otsego Sanitary Landfill). Currently solid waste from Cheboygan County is being hauled to the Waters site. The Elk Run Landfill in Onaway is in the process of being sold to Republic, a firm out of Florida. It is uncertain over the future of the landfill. The tipping fee at the Waters Landfill is $14.00 per cubic yard. The firm employs 35 people out of the Cheboygan area.

Discussion then followed on issues regarding flow control, rates, and recycling.

Development of Goals and Objectives: Identification of Problems: The committee then discussed problems related to solid waste management in Cheboygan County. Diane will draft issues section for the next meeting.

A worksheet for development of goals and objectives was provided to committee members. It was decided for committee members to bring suggestions to next meeting.

Public Comment: Fred Weeks and other Township representatives discussed class action lawsuit that the townships may be pursuing based on the lack of competition for hauling services in the county. Townships are unable to bid out the transfer stations. Prices for hauling, since this past merger took place have significantly increased in Inverness Township. Discussion then took place on contacting outside haulers.

Next Meeting: The next meeting will be October 27th; 3:00 p.m. at the County Commissioner's Room, Cheboygan County Building.

Adjournment: Moved by Herb M., seconded by Robert H. to adjourn the meeting. Ayes all, motion carried.

*** * * NOTICE * * ***
SOLID WASTE PLANNING
COMMITTEE MEETING
3:00 PM ON TUESDAY, OCTOBER 6, 1998
IN THE COMMISSIONER'S IN
THE CHEBOYGAN COUNTY BUILDING
THE AGENDA WILL BE POSTED IN
THE CLERK'S OFFICE AND AT THE DOOR OF ROOM 119.

The above "NOTICE" is to be published in the Cheboygan Daily Tribune one time on Friday, September 25, 1998.

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Fax: (517) 732-5578
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P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49735

Cheboygan County Solid Waste Planning Committee
October 6, 1998
3:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

Agenda

I. Call To Order

II. Members Present

III. Election of Chair

IV. Solid Waste Management Planning Overview

V. Review of Cheboygan County Solid Waste Management System

VI. Development of Goals and Objectives

A. Identification of Problems

B. Brainstorm on goals and objectives

VII. Public Comment

VIII. Next Meeting

A. Recycling Discussion
B. Committee meeting date

IX. Adjournment

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Minutes
of the
Cheboygan County Solid Waste Planning Committee
10/6/98
3:00p.m.
Cheboygan County Building
Cheboygan, MI

Call To Order: The meeting was called to order by acting Chair Charles Brown.

Roll Call: Greg Elliott, Robert Heilman, Ann Baughman, Herb Makima, Richard Kolb, Matt Schindewolf, Ken Paquet, Jeanette Mateer, Charles Brown. DPA: Diane Rekowski. Others:Marcia Rocheleau, Roger Frye, Fred Weeks, Ann Couture, Linda Lachapelle, Mary Anne Murray.

Election of Chair: Nominations were taken from the floor for Chair. Moved by Matt S., seconded by Robert H. to nominate Charles Brown as Chair. Ayes all, motion carried.

Parliamentary Procedures: Roberts Rules of Order were adopted as the parliamentary procedures to be used by the committee.

Solid Waste Management Planning Review: Diane provided an overview of the planning process (see enclosed). The task of the committee will be to develop a five year solid waste plan which will address the needs of the growing county. Emphasis should be placed on resource recovery programs which will divert solid waste from disposal. Once the committee has a draft plan then a 90 day public comment period will take place. A public hearing will be held within this period. The committee will then review all comments, make any necessary changes, approve the Plan and forward it to the County.

Review of Cheboygan County Solid Waste Management System: Diane updated the committee on solid waste management in Cheboygan County. Currently solid waste is being collected primarily by Waste Management, Inc. throughout Cheboygan County. Within the past year, buyouts and mergers took place resulting in BFI, CITY, Northern A-1, USA Waste, all now owned by Waste Management, Inc. Thunder Bay Sanitation, a small independent located in Hillman just recently began servicing a small portion of the Black Lake area, but primarily hauls in Montmorency County.

Recycling efforts, are volunteer and minimal in the county. City of Cheboygan operates the only composting facility in the county. Yard waste is banned from landfills. Transfer stations are located in the City of Cheboygan, and in townships throughout the county (see handout), Indian River area does not have a transfer station (outside of the use of Waste Management's in

Minutes of the
Cheboygan Solid Waste Committee
10/27/98
3:00 p.m.

Call To Order
The meeting was called to order at 3:00 p.m. by Chair Charles Brown.

Members Present
Richard Kolb, Charles Brown, Herb Makima, Scott McNeil, Greg Elliot, Ken Paquet, DeAnna Gilbert, Robert Heilman, Jeanette Mateer, Matt Schindewolf, Don Babcock, DPA: Diane Rekowski

Minutes of Previous Meeting
Herb M. moved, seconded by Robert H. to approve the minutes as presented. Ayes all, motion carried.

Goals and Objectives
The committee discussed issues regarding solid waste deficiencies within the county. The following is a summary of the committee's concerns:

- Lack of competition in refuse hauling.
- Increased prices due to a lack of competition.
- Lack of a recycling program.
- Problems with dumping in woods.
- Lack of a household hazardous waste collection program.
- Need additional composting sites for yard waste.

Examples of other county's solid waste goals and objectives were distributed and reviewed. The committee then discussed and developed goals and objectives based on the concerns and deficiencies of solid waste management within the county. Diane R. will draft the goals and objectives based on the committee's discussion.

Solid Waste Management Alternatives
Charlie discussed the need to better understand the current solid waste system and the need to visit the landfills where Cheboygan's waste is currently going or may potentially be used in the future. The committee then decided that a tour would be educational and would be willing to attend. Charlie and Diane will arrange the tour and notify the committee members. A notice will also be placed in the paper in case there are others interested in attending. A tour will also be arranged to visit a transfer station and the Emmet County Recycling Center.

Public Comment
Township Representative questioned the open meetings act in regards to the tour. Charlie will look into the concerns and inform the committee of the findings.

Adjournment
H. Makima moved, Robert H. seconded to adjourn the meeting. Ayes all, motion carried.

Cheboygan County Solid Waste Planning Committee
January 7, 1998
9:00 a.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

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MEETING/TOUR NOTICE

The Cheboygan County Solid Waste Planning Committee will meet at 8:45 a.m. on 12/2/98 at the Cheboygan County Controllers office to begin the tour of the landfills. The anticipated agenda for the tour is as follows:

9:00 a.m.	Departure from County Building
9:40 a.m.	Arrival Elk Run Landfill
10:15 a.m.	Departure
10:45 a.m.	Arrival Montmorency/Oscoda Sanitary Landfill
11:15 a.m.	Departure
11:30 a.m.	Lunch
12:30 p.m.	Departure
1:00 p.m.	Arrival Waste Management, Inc. Landfill
1:30 p.m.	Departure
2:30 p.m.	Arrival Cheboygan County Building

NOTE: In case of inclement weather, please call the Controller's office at 616-627-8855

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Cheboygan County Solid Waste Planning Committee
January 7, 1999
9:00 a.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

Agenda

I. Call To Order

II. Members Present

III. Minutes of Previous Meeting

IV. Review of Solid Waste Management Goals and Objectives

V. Solid Waste Management Alternatives Discussion
- A. Collection
- B. Resource Recovery
  - 1. Recycling Program
  - 2. Composting
- C. Disposal

VI. Public Comment

VII. Next Meeting

VIII. Adjournment

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Minutes of the
Cheboygan Solid Waste Committee
1/7/99
Cheboygan County Building, Commissioner's Room
Cheboygan, MI

Call To Order
The meeting was called to order at 9:00 a.m. by Chair Charles Brown.

Members Present
Charles Brown, Herb Makima, Scott McNeil, Greg Elliot, DeAnna Gilbert, Robert Heilman, Matt Schindewolf, Ann Baughman. DPA: Diane Rekowski . Others present: Marcia Rocheleau, Roger Frye, Wayne Vermilya.

Minutes of Previous Meeting
Matt S. moved, seconded by Robert H. to approve the minutes as presented. Ayes all, motion carried.

Review of Solid Waste Management Goals and Objectives
The committee discussed issues regarding lack of competition in the county. Discussion followed on flow control and volume based pricing ordinances. The concern is to enable small competitors to have a fair shot at the market. Roger Frye, Chairman of the Montmorency-Oscoda Alpena Landfill Authority was then asked to provide details on the flow control ordinances Montmorency and Oscoda Counties have implemented. Diane R. will send copies of both the flow control and volume based pricing ordinances with the minutes.

Discussion then took place on resource recovery activities. Recycling is a priority issue within the county and means of financing a system was discussed. It is likely that Cheboygan County's recycling program will be coordinated with Emmet County's. Emmet County has a model program in place for rural communities. Discussions have been initiated with Emmet County on accepting Cheboygan County's recyclables for processing.

The committee decided to tour the Emmet County Recycling Center on February 1, 1999. Diane R. will make arrangements and send out notices.

Composting was an issue that the committee decided warranted further discussion at the next meeting. This item will be placed on the agenda.

Public Comment
Wayne Vermilya discussed tipping fees and volume based pricing.

Adjournment
Herb M. moved, DeAnna G. seconded to adjourn the meeting. Ayes all, motion carried.

Solid Waste Management System

Collection Services:

Deficiency: Lack of Competition - one provider

Recommendation:

Disposal:

Export: Primary

Contingency:

Import: Primary:

Contingency:

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DATE: **1/13/99**

TO: **Cheboygan County Solid Waste Planning Committee**

FROM: **Diane Rekowski**

RE: **Emmet County Recycling Center & Transfer Station Tour**

The tour of the Emmet County Recycling Center and Transfer Station will take place on February 1, 1999. Please meet at the Comptroller's Office in the Cheboygan County Building at 8:30 a.m. It is anticipated that we will be back around noon.

Hope to see you there!

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saddened by DiMaggio's de
"He was one of the bes
game," said McGwire, wh
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"It's a big loss for the game
life in general."

DiMaggio was a precurs
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Help is clos
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(So is April 15.)

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what he was all about — it's something I will never forget," said Toronto's David Wells, who grew up a Yankee fan and met DiMaggio during his two seasons with the Yankees.

"Anybody who has grown up a fan of baseball, especially a Yankee fan, and you get to sit there and talk with one of their legends just gives you goose bumps. A lot of people had a difficult time getting autographs from him, but when I walked in there he said 'Sure, Dave what do you want signed?' Like, wow, that's awesome."

Then Wells was asked how he would have pitched to DiMaggio if he had faced him in his prime?

"High and tight," Wells replied.

went off on another tear of 16 straight game

- A crowd of 67,468 attended the game streak was stoppe
- DiMaggio had just one hit 34 times in the 56 game
- He hit safely against 43 different pitchers wi Elden Auker and Bob Harris of the St. Louis Brown serving up five hits eac
- He had 91 hits, including 16 doubles, four triple and 15 home runs, for a .408 average. He drove i 55 runs, scored 56 and struck out only seve times in 223 at bats during the strea

Career (1936-51)

G	AB	R	H	2B	3B	HR	RBI	BB	AVG
1,736	6,821	1,390	2,214	389	131	361	1,537	790	.325

World Series (10 yrs.)

G	AB	R	H	2B	3B	HR	RBI	BB	AVG
51	199	27	54	6	0	8	30	19	.271

Source: AP research

AP/Ed De Ga

• MEETING NOTICE •
Cheboygan County Solid Waste Committee
March 24, 1999
3:00 P.M.
Commissioner's Room
Cheboygan County Building
Cheboygan, MI

PUBLIC NOTICE
The weight restrictions have been lifted in Cheboygan County until March 15, 1999.
Cheboygan County Road Commission

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Resource Recovery Program

Recycling Program:

- Collection System:

- Transportation:

- Processing Facility:

- Financing:

- Educational Effort:

Composting:

- Existing Site:
- New Sites:
- Educational Efforts:

Resource Conservation Efforts:

- Annual amount of solid waste diverted from landfill:
  Recycling:
  Composting:
  Educational Efforts:
  Other

- Volume Reduction Techniques
  Recycling
  Composting

Minutes
of the
Cheboygan County Solid Waste Committee
May 18, 1999
Commissioner's Room
Cheboygan County Building

Call to Order:
The meeting was called to order by Chair Charles Brown at 10:00 p.m.

Members Present:
Jeanette Mateer, Charles Brown, Ken Paquet, Robert Heilman, Scott McNeil, Matthew Schindewolf. DPA: Diane Rekowski. A quorum was not present.

Discussion of Solid Waste Management Systems:
Transfer Station Survey: Diane R. distributed surveys of transfer stations in Cheboygan County. Costs of operating the stations were reviewed. Nine transfer stations are located in Cheboygan County, the Indian River area was identified as an area not serviced by a transfer station.

Collection: Discussion took place on collection methods and routes in Cheboygan County. Collection is available throughout county. Current Waste Management, Inc. charges are: In-City: $15.50/month; Outside City: $19.00/month. $3.00/month rental fee for 65 gallon container. Bag program: $4.00/month fee, plus $2.00/bag.

Clean up days: Ken P. updated the committee on clean-up days . All townships with the exception of Hebron, Burt and the City of Cheboygan, have annual clean-up days.

Resource Recovery: Discussion took place on developing a recycling program for Cheboygan County. A system which would build into Emmet County's Material Recovery Facility (MRF) was discussed as the desired program. This would involve roll-off compartmentalized containers located throughout the county. The containers would then be taken to Emmet County's recycling center for material processing. Costs for containers and trasnsportation of the materials to Emmet County's facility were then discussed.

Solid Waste Management Alternatives:
Diane R. distributed a solid waste management worksheet in which committee members reviewed different management alternatives. Two alternatives will be drafted for the next meeting.

Public Comment:
No public comment

Next Meeting Date:
The next meeting is June 15, 1999; 2:00 p.m. at the Cheboygan County Building (June 22 will be alternate date).

Adjournment:
The meeting was adjourned at 11:50 a.m.

Northeast Michigan Council of Governments
NEMCOG

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email: nemcog@northland.lib.m
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Meeting Notice

Cheboygan County Solid Waste Committee
March 24, 1999
3:00 p.m.
Commissioner's Room
Cheboygan County Building
Cheboygan, MI

Agenda

I. Members Present

II. Minutes of Previous Meeting

III. Update on Recycling Center and Transfer Station Tour

IV. Discussion of Solid Waste Management Systems

A. Collection
B. Resource Recovery
C. Disposal

V. Public Comment

VI. Next Meeting Date

VII. Adjournment

2. Beth's Flowers, 88-40
3. Benter's Marvels, 87-41
4. Alcock's Market, 82-46
5. Bob's Squad, 81-47
6. Wright Way Homes, 79-49
7. Eckhart Construction II, 74-54
8. Dave's Place, 63-65
9. FOE 1282 Aux., 62 1/2-65 1/2
10. Robiadek & Sons, 57-71
11. Eckhart Construction I, 55 1/2-72 1/2
12. Hair Trends, 54-74
13. Citizens National Bank, 56-76
14. Jones City Garage, 50-78
15. Jaycee Guys, 47-81
16. Jaycee Girls, 45-83
17. Gutter Strutters, 39-89
18. Family House Restaurant, 36-92

Men

Series - C. McGovern, 712; T. Webber, 692; J. Borowicz, 676

High Series Hdcp. - D. Fenlon, 744; T. Webber, 740

Game - T. Webber, 258; C. McGovern, 257; J. Borowicz, 248

High Game Hdcp. - T. Webber, 274; J. Borowicz, 258; C. McGovern, 257

Women

Ind. Game - R. Newman, 212; D. Rollo, 210; C. Jones, 207

Game w/hdcp. - D. Rollo, 259; M. Reiman,

9. Dewitt
10. Imlay City

Honorable Mention: Riverview, Stevensville-Lakeshore, Dearborn Divine Child, Marine City, Tecumseh, **CHEBOYGAN.**

DIVISION III

1. Kalamazoo Christian
2. Richmond
3. Clinton
4. Lansing Catholic Central
5. Sanford Meridian
6. Pontiac Notre Dame Prep
7. Shelby
8. Bangor
9. Grant
10. Homer

Honorable Mention: Niles-Brandywine, Clare, Edwardsburg, Elk Rapids, Evart, Hemlock, Michigan Center, Rogers City.

DIVISION IV

1. Bay City All Saints
2. Southfield Christian
3. Kingston
4. Traverse City St. Francis
5. Maple City-Glen Lake
6. Bellaire
6. Mount Pleasant Sacred Heart
7. Waterford Our Lady
8. Marine City Cardinal Mooney
9. Frankfort

Rookie) — Chris Drury, Colorado; Milan Hejduk, Colorado; Marian Hossa, Ottawa.

LADY BYNG MEMORIAL TROPHY (Sportsmanship and Gentlemanly Conduct) — Wayne Gretzky, N.Y. Rangers; **Nicklas Lidstrom, Detroit;** Teemu Selanne, Anaheim.

FRANK J. SELKE TROPHY (Outstanding Defensive Forward) — Magnus Arvedson, Ottawa; Jere Lehtinen, Dallas; Michael Peca, Buffalo.

JACK ADAMS AWARD (Outstanding Coach) — Ken Hitchcock, Dallas; Jacques Martin, Ottawa; Pat Quinn, Toronto.

NASCAR Winston Cup

NASCAR Winston Cup schedule, winners in parentheses, and driver point standings:

Feb. 14 — Daytona 500, Daytona Beach, F (Jeff Gordon).

Feb. 21 — Dura-Lube 400, Rockingham, N (Mark Martin).

March 7 — Las Vegas 400 (Jeff Burton).

March 14 — Cracker Barrel 500, Hampt Ga. (Jeff Gordon).

March 21 — TranSouth 400, Darlington, (Jeff Burton).

March 28 — Primestar 500, Fort Worth, Te

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meeting Board on 1999 at all.

hleen Hart, up. Clerk

Meeting Notice:

Cheboygan County Solid Waste Committee

May 18, 1999

2:00 p.m.

Commissioner's Room

Cheboygan County Building

Cheboygan, MI

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$15,989*

• Pwr. Seat, Windows & Locks • Air • Tilt • Cruise • AM/FM Cass. • 6 Passenger Seating • Stock # 1470
$15,989*

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#6827. Just in 4x4 Short Box with air, auto trans., cruise, tilt, AM/FM Cass., pwr. windows & locks, 350 V-8 & more!
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• MEETING NOTICE •

Cheboygan County Solid Waste Committee

May 18, 1999

10:00 A.M.

NOTE: MEETING TIME HAS BEEN CHANGED

Commissioner's Room
Cheboygan County Building
Cheboygan, MI

LAST DAY OF REGISTRATION SCHOOL ELECTION

NOTICE OF LAST DAY OF REGISTRATION OF THE ELECTORS OF PELLSTON PUBLIC SCHOOLS EMMET AND CHEBOYGAN COUNTIES, MICHIGAN

TO THE ELECTORS OF THE SCHOOL DISTRICT:

Please Take Notice that the regular school election of the school district will be held on Monday, June 14, 1999.

THE LAST DAY ON WHICH PERSONS MAY REGISTER IN ORDER TO BE ELIGIBLE TO VOTE AT THE REGULAR SCHOOL ELECTION CALLED TO BE HELD ON MONDAY, JUNE 14, 1999, IS

Northeast Michigan Council of Governments

NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.mi.us
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49735

MEETING NOTICE

Cheboygan County Solid Waste Planning Committee
May 18, 1999

10:00 a.m. *****

Commissioner's Room
Cheboygan County Building
Cheboygan, MI

****NOTE: CHANGE IN MEETING TIME

- Proposed Agenda -

I. Call to Order

II. Members Present

III. Minutes of Previous Meeting

IV. Solid Waste Information Survey

- A. Transfer Station Survey
- B. Collection Routes
- C. Clean Up Days

V. Solid Waste Management Alternatives Discussion

VI. Next Meeting Date

VII. Adjournment

Northeast Michigan Council of Governments
NEMCOG

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P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49

MEETING NOTICE

Cheboygan County Solid Waste Planning Committee
May 18, 1999 ***
2:00 p.m.

Commissioner's Room
Cheboygan County Building
Cheboygan, MI

***NOTE: CHANGE IN MEETING DATE

- Proposed Agenda -

I. Call to Order

II. Members Present

III. Minutes of Previous Meeting

IV. Solid Waste Information Survey

- A. Transfer Station Survey
- B. Collection Routes
- C. Clean Up Days

V. Solid Waste Management Alternatives Discussion

VI. Next Meeting Date

VII. Adjournment

Hall, 8016 Brandau Center.

Arrivals

James Michael is the new son of Paul and Amy Michael of ver. He was born May 26, 1999, weighed 7 pounds, one-nce and was 20 inches long. His grandparents are Carol and Michael of Indian River and Debbie and Lanny Burton of eek. His great-grandparents are Billy Michael of Portland, her Smith of Cheboygan and Joyce and Charles Bateman of ce, Ky.

Mitchell Thayer is the new son of Guy and Sheryl Thayer of He was born May 31, 1999, weighed 7 pounds, 4 1/4 ounces 20 1/2 inches long. He joins brothers Jeremy, 18, Michael, 15, a, 13; and sister Cassidy, 3. His grandparents are the late Tom a Conkright; also Chuck and Carolyn Thayer of East Jordan.

dent Honored

Id Crist of Cheboygan has been placed on the College of gy D's List for the 1999 winter semester at Ferris State ty.

Open Letter:

Sometime on the 23rd or 24th of May, someone stole my bilt 33" wide cut mower from my place of business on t State St.

Why??

To anyone who knows me or my business, knows that I do anything to help anyone in need. I have provided a ice to this community since 1983. Much of this service been free to those who were in need and could not afford urchase items or service we provided. Anything I own or has been available for loan to anyone who needed the n. Why would someone feel the need to steal from me?

Why did this person not come to me for help or the loan ny mower? Did this person need the mower, or do they e a need to steal items to sell for money they are in des-ate need of. The mower is worth about $900.00. I hope person who took the mower sells the mower for the ue of the mower and uses the funds to help their needy ily. I hope this person is in desperate need of money for ir family and not just in need of money because they are lazy to work or too uneducated to find a good job.

At this time, I am offering a $150.00 reward for informa-n leading to the arrest and conviction of the person or per-s responsible for stealing the mower. The monetary value this mower is not important to me. I just want to meet this rson who felt the need to steal from me. I want to under-nd the person who would rather steal from me when they uld asked to borrow the mower.

Some[illegible]e out there knows where this mower is. Did your ighbor show up with a new used mower on the weekend? dies; did your spouse or boyfriend show up with a mower ey could not afford to buy?? Guys; did one of your friends ng about the free mower they got, and they think it was

Gaylord, Disabled Army Veterans, Veterans of Foreign Wars, Michigan Education Association, National Education Association, Masons, Shriners, Moose, Michigan Association of Retired School children.

A memorial service will be held Saturday, June 12 at the First United Methodist Church at 1[illegible] a.m. Memorial contributions may be made to the First United Methodist Church in Gaylord.

Correction

Bishop Baraga student Jennifer Scheele was identified in a Tribune photo and story Monday as Jennifer Steele. The Tribune regrets any inconvenience caused by this error.

Locals

CAHS Child Care Center is now accepting applications for 3- and 4-year-olds for the 1999-2000 school year. Afternoon sessions and a few morning openings are available. Call Jackie Herman or Pam Dombroski at 627-7191.

This meeting will include installation of officers for the coming year. Also, a presentation of 50 year membership pins to members who have belonged to the V.F.W. for 50 years will take place. Please attend if you have been notified of your eligibility for this award.

★ MEETING NOTICE ★

CHEBOYGAN COUNTY

SOLID WASTE COMMITTEE

JUNE 22, 1999 • 2:00 P.M.

COMMISSIONER'S ROOM

CHEBOYGAN COUNTY BUILDING, CHEBOYGAN, MI

Now there is a clear choice in

Laser Vision Correction

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Please stop in for patient information.

ries of classes. Grief and the sses will be held from 6:30-enings, June 21 through July Room, 761 Lafayette Avenue, d, but not required. For more pport, please contact Hospice

l Society meets Wednesday at

roup meets Wednesday at 6

day. Call the Cheboygan Area ointment, 627-7191.

he Olson's Gymnastics Club of ines Thursday at 7 p.m. in the is free. For info call 627-6458.

naw City will be the first sum-, June 11 from noon until 5:45 r Huron at the corner of Jamet kinaw Woman's Club.

sponsor "The 24 hour relay for 10 a.m. Saturday to 10 a.m. heboygan County Fairgrounds

in concert at The Cross In The dian River, Saturday at 8 p.m. stical setting of the new indoor e Digital Computer Organ.

l School of Dance will present rday and Sunday choreographed Approximately 100 students will e styles to interpret the beauty, he performances will be held at Saturday and 2 p.m. on Sunday. for children 12 and under are $1. days, 9:30 a.m. to 4:30 p.m.

tion meets Sunday at 2 p.m. in spital in Petoskey. All ostomates 616-347-2225 for information.

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Minutes
of the
Cheboygan County Solid Waste Committee
June 22, 1999
Commissioner's Room
Cheboygan County Building

Call to Order:
The meeting was called to order by Chair Charles Brown at 2:15 p.m.

Members Present:
Jeanette Mateer, Charles Brown, Ken Paquet, Ann Baughman, Greg Elliot, Herb Makima, Scott McNeil, Matthew Schindewolf. DPA: Diane Rekowski. A quorum was present.

Minutes of Previous Meeting:
Jeanette M. moved, seconded by Herb M. to approve the minutes of the March and May meetings. Ayes all, motion carried.

Solid Waste Management Alternatives Discussion:
Diane R. provided a draft of the two solid waste management systems alternatives based on the discussion of the previous meeting. The two alternative systems are:

I. Same solid waste management system as presently available: Curbside collection through private agreements, volunteer recycling program, and disposal at Elk Run Sanitary Landfill, Montmorency-Oscoda-Alpena Sanitary Landfill, and Waste Management Landfill in Waters, MI.

II. Expanded Solid Waste Management System to include increased cost-effectiveness of collection services, high priority placed on implementing a coordinated county-wide recycling program with Emmet County, and primary and contingency disposal at Elk Run Sanitary Landfill in Presque Isle County, Montmorency-Oscoda-Alpena Sanitary Landfill in Montmorency County, and Waste Management Inc. Landfill in Crawford County.

Discussion then followed on the two alternatives. Ann B. moved, seconded by Jeanette M. to support the second alternative. Ayes all, motion carried. Diane R. will provide a draft of the Plan up to the Appendix with the next mailing.

Public Comment:
No public comment

Next Meeting Date:
The next meeting is July 27, 1999; 1:00 p.m. at the Cheboygan County Building.

Adjournment:
The meeting was adjourned at 3:25 p.m.

Minutes
of the
Cheboygan County Solid Waste Committee
July 27 1999
Commissioner's Room
Cheboygan County Building

Call to Order:
The meeting was called to order by Chair Charles Brown at 1:15 p.m.

Members Present:
Jeanette Mateer, Charles Brown, Ken Paquet, Ann Baughman, Greg Elliot, Scott McNeil, Robert Heilman. DPA: Diane Rekowski. A quorum was not present.

Minutes of Previous Meeting:
No action taken.

Solid Waste Management Plan Discussion:
The draft solid waste management plan was reviewed. Discussion then followed on changes and additions to the Plan. It was recommended to increase the frequency of household hazardous waste collection to a semi- annual program, coordinated with Emmet County. Funding for the household hazardous waste program will be included in the assessment/millage request.

Discussion then took place on how the resource recovery program would take place in Mackinaw City. The village is divided between two counties: Emmet and Cheboygan. Mackinaw City and Waste Management representatives are discussing recycling rates for the village. Discussion followed on the logistics of having two solid waste plans covering one governmental unit. Emmet County will be contacted to discuss the coordination of the plans.

Public Comment:
Roger Frye, Chair of the MOASL Authority discussed the idea of an assessment per household unit for resource recovery program funding.

Wayne Vermilya discussed the possibility of the Village of Mackinaw City asking one of the counties to join in their solid waste plan.

Next Meeting Date:
The next meeting is September 14, 1999; 3:00 p.m. at the Cheboygan County Building.

Adjournment:
The meeting was adjourned at 2:45 p.m.

Northeast Michigan Council of Governments
NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.m
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49

MEETING NOTICE

Cheboygan County Solid Waste Planning Committee

June 22, 1999
2:00 p.m.

Commissioner's Room
Cheboygan County Building
Cheboygan, MI

- Proposed Agenda -

I. Call to Order

II. Members Present

III. Minutes of Previous Meeting

IV. Solid Waste Management Alternatives Discussion

V. Selection of Solid Waste Management Alternative

VI. Next Meeting Date

VII. Adjournment

Northeast Michigan Council of Governments

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Fax: (517) 732-5578
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Cheboygan County Solid Waste Planning Committee
July 27, 1999
1:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

Agenda

I. Call To Order

II. Members Present

III. Minutes of Previous Meeting

IV. Review of Solid Waste Management Plan

V. Public Comment

VI. Authorization of Plan for Public Comment

VII. Public Hearing Date

VIII. Adjournment

U.N. prosecutor and Serb opposit

PRISTINA, Yugoslavia (AP) — A top U.N. prosecutor investigating war crimes against ethnic Albanians in Kosovo and opposition leaders pushing for Slobodan Milosevic's ouster are intensifying pressure on the Yugoslav president.

Louise Arbour, chief prosecutor for the U.N. tribunal on war crimes in the former Yugoslavia, plans today to visit Celine, a village nine miles northwest of Prizren where British forensic teams found the bodies of 11 children shot dead at [illegible] or skeletal remains of bodies. The investigation likely will last through fall, Arbour said.

Meanwhile, in cities across Serbia, thousands of demonstrators demanded Tuesday that Milosevic step down.

Zoran Djindjic, head of the Democratic Party, told a crowd of about 4,000 in the central Serbian town of Jagodina that Milosevic "has to go before winter" and announced more protests in the coming days in the capital, Belgrade, and other [illegible] a march on Belgrade. Be ready, we will call you," Djindjic said to a deafening applause. "This is not about politics, this is a question of survival."

Public discontent with Milosevic has grown since the end of NATO airstrikes against Serbia. Serbs suffered under the 78-day assault that forced Milosevic to pull his troops out of Kosovo and let alliance peacekeepers take over.

"I am ashamed to be a Serb in Serbia with this kind of government. We must free Serbia from [illegible] and his cronies," said [illegible]

---

designed the athletic facilities.

Another parent, Julie Striebich, asked the board for a response for the actions of former superintendent John Palmer toward herself and other parents.

As a person employed with tax dollars, the superintendent needs to be closely watched, she said.

Striebich suggested having a secretary attend meetings with parents to take notes and act as an observer.

"I think we need to keep an eye on what the superintendent is [illegible] have been addressed years ago, Striebich said.

"We need to get these kids at a young age and teach them respect for one another," she said.

That could be attempted by having counselors work with children in their classrooms, said Striebich.

She was asked by board member James Muschell to make a written recommendation for how to handle behavior and playground problems once a new superintendent is in place.

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MEETING NOTICE
Cheboygan County
Solid Waste Committee
JULY 27, 1999
1:00 P.M.
Commissioner's Room
Cheboygan County
Building
Cheboygan, MI

Tri Rivers took the lead for [illegible]d with four runs in the fourth, [illegible]ng for a 6-2 lead.

[illegible]erkins also led the offense [illegible] three doubles, while Mike [illegible]be had two hits. Austin

middle of the road.

"Suddenly, I went from the most beautiful moment of my life to the worst," a grinning Guerini said. "I thought I'd lost the race. But I saw I had a few seconds advantage over the others, so I went flat out."

He said he was too shocked to say

Armstrong was subjected to innuendo in the French press regarding his great success.

"Superfying Armstrong," was the headline of Wednesday's France-Soir tabloid, referring to Armstrong's emphatic victory in the Alps the day before.

has lost ground to the euro, the single European currency that was introduced Jan. 4.

Part of the dollar's retreat reflects optimism for resurging economies in both Asia and Europe, combined with fears of additional interest rate increases

bonds in favor of the yen and the turn strengthens th against the dollar.

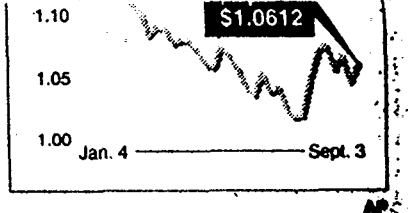
An extended sli lar will eventually sumers' pocketboo

When the value

The dollar last week fell below 110 yen for the first time since January, and only the second time in three years. That's well below its May high for the year of more than 124 yen to the dollar.

In a rebound Friday, a day

1990s in the United States might be hobbled by rising inflation and interest rate increases by the Federal Reserve has led some international investors to take their money out of the United States and seek more profitable investments overseas.



AP

Thoreau manuscript more than a century

by Hillel Italie
Associated Press Writer

NEW YORK — In the summer of 1850, Henry David Thoreau was sharing a house with his parents and wondering what to do. He had completed his second book, the now-classic "Walden," but had no idea how to follow it. "I feel ripe for something, yet do nothing," he wrote in his journal.

Having started a surveying business, he chose to ponder the "rich and fertile mystery" of the wildlife around Concord, Mass.

Mass., less than a Walden Pond.

Thoreau was just 4 died of tuberculosis in ing away in the front p family home. Shortly death, he had wra

MEETING NOTICE
Cheboygan County Solid Waste Committee
September 14, 1999
3:00 p.m.
Commissioner's Room
Cheboygan County Building
Cheboygan, MI

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email: nemcog@northland.lib.[illegible]
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49[illegible]34

Minutes of the

Cheboygan County Solid Waste Planning Committee
September 14, 1999
3:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI

Call To Order: The meeting was called to order by Chair Charles Brown.

Members Present: Charles Brown, Greg Elliot, Herb Makima, Scott McNeil, Jeanette Mateer, Ken Paquet, Robert Heilman. DPA: Diane Rekowski.

Minutes of Previous Meeting: Minutes of the June and July meetings were approved as presented.

Review of Solid Waste Management Plan: Discussion then took place on the draft solid waste plan. C. Brown noted that the committee spent quite a bit of time visiting the landfills, transfer station and Emmet County Recycling Facility to become familiar with the present solid waste management system. The Committee then decided that it was now time to obtain public input on the Plan.

Public Comment: No public comment.

Authorization of Plan for Public Comment: R. Heilman moved, seconded by H. Makima to authorize the 1999 Update of the Cheboygan County Solid Waste Management Plan to be released for public comment. Ayes all, motion carried.

Public Hearing Date: The 90 day public comment period will begin September 15, 1999 and end December 17, 1999. The public hearing was tentatively scheduled for December 8th. D. Rekowski will send out notices of public hearing date and time.

Adjournment: The meeting was adjourned at 3:30 p.m.

Northeast Michigan Council of Governments

NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.mi.us
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

Date: 9/20/99

To: Cheboygan County Solid Waste Planning Committee

From: Diane Rekowski, Director

RE: Draft Plan, Meeting Dates

Enclosed please find a draft copy of the Cheboygan County Solid Waste Management Plan that was recently authorized by the Solid Waste Planning Committee for public review and comment. The Plan will be sent to all municipalities in the county as well as adjacent counties. The public comment period began September 15,1999 and will end December 17, 1999.

The public hearing, to take comments on the Plan will take place on November 10, 1999; 7:00 p.m. at the Cheboygan County Building, Commissioner's room. This date was changed from that scheduled at the September 14th meeting to allow for ample time for compilation of the public comments.

After the public comment period the Solid Waste Planning Committee must meet within 30 days of the closing of the public comment period. Tentatively, mark your calendars for January 13th, 2000 at 3:00 p.m. to review public comments, make any changes to the Plan, and move the Plan to the County Board of Commissioners for their approval. Once the Plan is approved by the County, it is then forwarded to the municipalities for their approval. 15 of the 21 municipalities must pass the Plan for it to be considered locally approved. Once all the municipalities have voted on the Plan it is then forwarded to the State for their approval.

Thank you for your time and input on the development of this Plan. Hope to see you at the public hearing on November 10th.

Northeast Michigan Council of Governments
NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-55
email: nemcog@northland.lib.m
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

Meeting Notice

Cheboygan County Solid Waste Planning Committee
September 14, 1999
3:00 p.m.
Cheboygan County Building
County Commissioner's Room
Cheboygan, MI 49721

Agenda

I. Call To Order

II. Members Present

III. Minutes of Previous Meeting

IV. Review of Solid Waste Management Plan

V. Public Comment

VI. Authorization of Plan for Public Comment

VII. Public Hearing Date

VIII. Adjournment

Northeast Michigan Council of Governments

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Phone: (517) 732-3551
Fax: (517) 732-5578
email: nemcog@northland.lib.mi.us
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

MEMORANDUM

DATE: September 20, 1999

TO: Officials of Surrounding Counties

FROM: Diane Rekowski

RE: Cheboygan County Solid Waste Plan

Enclosed please find a draft copy of the Cheboygan County Solid Waste Management Plan that was recently authorized by the Solid Waste Planning Committee for public review and comment. The 90-day public comment period began on September 15, 1999 and will end December 17, 1999.

A public hearing will be held on November 10, 1999; 7:00 p.m. at the Cheboygan County Building, Commissioner's room. Any comments on the Plan can be sent to NEMCOG at the above address.

We would appreciate this copy of the Cheboygan County Solid Waste Management Plan to be made available at your Township Hall, City Office or Village Office for Public Review. Notification will be provided in the Cheboygan Daily Tribune as to the Public Hearing date and where the solid waste plans are available for review.

Please do not hesitate to contact me if you should have any questions or concerns.

Northeast Michigan Council of Governments

NEMCOG

Phone: (517) 732-3551
Fax: (517) 732-5
email: nemcog@northland.lib.m
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

MEMORANDUM

DATE: September 20, 1999

TO: Cheboygan County Townships, City of Cheboygan, Village of Mackinaw City and Village of Wolverine

FROM: Diane Rekowski

RE: Solid Waste Plan

Enclosed please find a draft copy of the Cheboygan County Solid Waste Management Plan that was recently authorized by the Solid Waste Planning Committee for public review and comment. The 90-day public comment period began on September 15, 1999 and will end December 17, 1999.

A public hearing will be held on November 10, 1999; 7:00 p.m. at the Cheboygan County Building, Commissioner's room. Any comments on the Plan can be sent to NEMCOG at the above address.

We would appreciate this copy of the Cheboygan County Solid Waste Management Plan to be made available at your Township Hall, City Office or Village Office for Public Review. Notification will be provided in the Cheboygan Daily Tribune as to the Public Hearing date and where the solid waste plans are available for review.

Please do not hesitate to contact me if you should have any questions or concerns.

I hope these comments are useful to Cheboygan County as you attempt to develop an approvable Plan. If you have any questions or comments, please contact me by telephone or e-mail, at idziaks@state.mi.us.

Sincerely,

Stan Idziak

Stan Idziak
Solid Waste Management Unit
Waste Management Division
517-373-4740

cc: Mr. Seth Phillips, DEQ
Cheboygan County File

Northeast Michigan Council of Governments

NEMCOG

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Fax: (517) 732-
email: nemcog@northland.lib.
P.O. Box 457 • 121 E. Mitchell • Gaylord, MI 49734

MEMORANDUM

DATE: September 20, 1999

TO: Cheboygan County

FROM: Diane Rekowski

RE: Solid Waste Plan

Enclosed please find a draft copy of the Cheboygan County Solid Waste Management Plan that was recently authorized by the Solid Waste Planning Committee for public review and comment. The 90-day public comment period began on September 15, 1999 and will end December 17, 1999.

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We would appreciate this copy of the Cheboygan County Solid Waste Management Plan to be made available at the County Building for Public Review. Notification will be provided in the Cheboygan Daily Tribune as to the Public Hearing date and where the solid waste plans are available for review.

Please do not hesitate to contact me if you should have any questions or concerns.

These sections should be deleted from the Plan.

D. Plan Amendment fort a facility Not included in this Plan should read Plan Amendment for a Facility Not Included in this Plan.

Page 74

B. Application Fee: The application fees for disposal facilities are outlined in the table and, as such, are part of the Plan. These fees cannot be can only be changed through a Plan amendment rather than at the discretion of the County Board of Commissioners. Therefore, the last sentence in this section should be deleted.

II Siting Criteria Process: Third paragraph, first line, last word, bas should be as.

Page 75

b) i): Replace "(as identified by DNR floodplain maps and as defined in Part 115 Administrative Rules)" with "(as identified by DEQ floodplain maps and as defined by Rule 103 (b) Solid Waste Management Act Administrative Rules promulgated pursuant to Part 115 of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended)."

b) ii): Replace "Lands regulated under the Farmland and Open Space Preservation Act, 1974 Part 361 or NREPA, as amended, that are within boundaries of the site" with "Lands regulated under Part 361, Farmlands and Open Preservation, of Act 451, as amended, that are within boundaries of the site."

Page 81

K: Step Eight Applicant Review-Followup: Line 2, word 15, "desecration" should read "discretion."

Section II. on page 73 is titled Siting Criteria and Process. The process is well described from page 73 to 81, however, the actual siting criteria are not provided. To be approvable, the Plan must contain siting criteria and a siting process.

Page 85

A, B, and C. The issue of locating the disposal area in proximity to local high water mark should be part of the Plan's siting criteria. In addition, the ordinance attempts to regulate the disposal of hazardous wastes and this is beyond the scope of the Plan. Hazardous wastes are not defined as solid waste and the regulation of hazardous waste is addressed in Part 111, Hazardous Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and the Administrative Rules to Part 111.

Page 86

D. As written, this section appears too broad in scope. Sections 9.2 and 9.3 of Cheboygan County Zoning Ordinance NO. 200 are referenced here, but the specific regulations must be reviewed to determine whether they conflict with Part 115 or the DEQ's regulatory authority and responsibilities.

E. See page 85 comments on A, B, and C.

F. Act 641 is no longer in force. Natural River designations are covered under Part 305 of Public Act 451 of 1994, as amended. This restriction should be part of the Plan's siting criteria rather than addressed here.

G. Section 12.2.1 of Cheboygan County Zoning Ordinance 200 is referenced here, but the proposed scope of this regulation is not described. The extent of the ordinance must be described and the specific regulation must be reviewed to determine whether it conflicts with Part 115 or the DEQ regulatory authority and responsibilities.

In order to avoid potential conflict between Cheboygn County Ordinance NO. 200 and the provisions of Part 115 and its Administrative Rules which may hinder the approval of the Plan it may be better to remove the Ordinance from the Plan.

Page 87

8. Solid Waste Flow Control Ordinance: The influx and egress of solid waste into the County is controlled in the Plan through the import and export authorizations on pages 38 through 41. An ordinance would only duplicate the restrictions defined in the Plan. Unless the flow control ordinance will regulate disposal areas in Cheboygan County it does not need to be included in this section of the Plan.

Page 88

Capacity Certifications: Although the Cheboygan County Plan identifies a number of landfills with capacity to accept its solid waste, the evaluation in the Plan needs to specifically demonstrate that the County has this capacity in relation to the County's disposal needs as well as the other areas served by these landfills.

Appendix A
Page 96

Access to Transportation: Please complete this section.

Appendix C
Page 109

Please indicate what environmental group planning committee member Ms. Jeanette Mateer represents.

Appendix D

Documentation from the landfills where Cheboygan County is currently disposing of its solid waste indicating that the County has access to their listed capacity, must be included in this Plan.

There is no documentation indicating that Cheboygan County is identified in the plans of the counties where the disposal facilities are located as a county authorized to export solid waste to their landfills. This information must be included in Cheboygan County's Plan.

SOLID WASTE DISPOSAL AGREEMENT

AGREEMENT ENTERED INTO by the counties of Presque Isle and Cheboygan on the date as executed and for a term that commences immediately and terminates upon agreement of the parties or upon a showing of good cause.

WHEREAS the Solid Waste Management Act encourages regional and multi-county planning: and

WHEREAS it best serves the interests of all citizens to cooperate and coordinate the disposal of solid waste: now then

IT IS AGREED:

1) As long as either county has waste disposal facilities with 20 years capacity for that county, or such other period as may hereafter be required under 641, then such county agrees to accept waste generated in the other county;

2) Presque Isle County will accept waste generated in the County of Cheboygan only up to a maximum of 68.6 tons per day (average calculated over a period of one year); Cheboygan County commits to maintain citing criteria in its Solid Waste Management Plan so to allow the potential for future land fill development;

3) Each county shall promote a program of recycling, composting and household hazardous waste collection;

4) Transportation, disposal and material recovery shall all be in accordance with the Solid Waste Management Plan of the recipient county and the regulations which implement Act 641, and nothing contained in this Agreement relieves any party of obligations to comply with all Federal and State laws, and local ordinances as may be applicable.

PRESQUE ISLE COUNTY BOARD OF COMMISSIONERS, by

Charles Rhode

Charles Rhode, Chairman

Dated: 8-30-93

CHEBOYGAN COUNTY BOARD OF COMMISSIONERS, by

, Chairman

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

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

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION
PO BOX 30241
LANSING MI 48909-7741

November 9, 1999

Ms. Diane Rekowski
Northeast Michigan Council of Governments
P.O. Box 457
Gaylord, MI 49735

Dear Ms. Rekowski:

I have received and reviewed a copy of the draft Cheboygan County (County) Solid Waste Management Plan Update (Plan) released for the 90-day public comment period ending, November 10, 1999. I will address our comments in the same order as the topics appear in the Plan. The following areas of the County's Plan may be cause for concern and may require revision or additional information.

Cover Page	Please indicate the date when the final Plan is submitted to the Department of Environmental Quality (DEQ) for approval. If different versions of the Plan are prepared during the update process, listing the date can ensure that discussions between the DEQ and the County are referring to the correct document.
Page 13	Under *Explanation of special wastes, including a specific list and/or conditions: Should it read Contaminated Soils, non-friable materials?
Page 40	It is not necessary to authorize these landfills for contingency disposal if they are already authorized for primary disposal.
Page 42	This page is for existing disposal areas, not for future sites, unless the specific location of the proposed site is part of the Plan. In addition, if the proposed regional recycling center processes site or source separated materials as defined in Part 115 11505 (7) and 11506 (6), then it would not be subject to siting procedures in the Plan.
Page 72	A.3 Recycling and Compost Processing Facilities: Yard waste composting sites and material recovery facilities that process site or source separated materials are not solid waste disposal areas and, therefore, not controlled by siting in the Plan. If these are the facilities intended to be covered by this statement, then A.3 should be deleted. If not, this statement should be clarified.
Page 73	B. Facilities Exempt: Paragraphs B.1 and B.2 are restatements of rules promulgated in Part 115. If inclusion of this information is meant to relate to specific siting matters controlled by the Plan, this section should be clarified to define that relationship. Otherwise, this discussion should be deleted.

directly beneath the landfill property. Only very limited dye studies have ever been conducted. Much of the rest of any data is scattered, inconclusive, or simply geological theory. The specific concern here is that if impacted by contaminates from the landfill, it may be too late to take remedial action due to the extreme groundwater flow velocities that are typical of karst aquifers. That is to say that a release into the Kinney Island Bog has the potential of reaching sink and swallow holes which access the karst aquifer. In a matter of days for example the contaminates could travel great distances contaminating a very large area very quickly.

The landfill is constructed 10 to 15 feet below the level of the artesian springs excavated during the construction of the landfill. The recharge for the springs is the water in the Kinney Island Bog. In other words, the bottom of the landfill is below the level of the bog. The water in the bog is trying to fill the landfill with water. In order to be able to build the liner system, landfill designers had to engineer an "underdrain system" to prevent the liner from floating like a boat. According to Jim Sygo, Chief of the Waste Mgt. Division DEQ, the weight of the trash in the landfill is what is holding the liner down. In a letter dated June 11, 93, Tom Polasek (DEQ) refers to the condition as an environmental plus because the water trying to get in the landfill will prevent contaminates from escaping through voids in the liner system. That statement is true as long as the water in the landfill is being removed. That is to say as long as the landfill is in compliance and in operation, regulations require the removal of leachate from inside the liner system. But, when the landfill is closed, the water removal will have to continue forever or the landfill will eventually and inevitably fill with water from the Kinney Island Bog. At that point anything in solution (contaminates) in the landfill will be released through the same voids that the water entered, back into the Kinney Island Bog, and then in all likelihood through the swallow and sink holes into the deep karst aquifer.

The landfill technology in use today in the U.S. is referred to as "dry tomb". That means that when the landfill is full of trash a cap or cover is placed over the top and because no precipitation water can enter from the top, the landfill will eventually dry up as the water is collected from the leachate collection system on the bottom. As long as there is water in the Kinney Island Bog the Allis landfill will never dry up. G. Fred Lee and Associates have studied and reported that "underdrain systems constructed to compensate for high water tables are not reliable in preventing groundwater contamination". Copies of the G. Fred Lee Report are available upon request.

On a lesser but still important note, other surface releases (to the west) from the site enter the upper Black River watershed through a stream and wetland system that flows west and enters the Black River just north of Milligan Hwy. As of this date efforts are under way to secure funding for comprehensive monitoring of the water quality of this system.

Other specific concerns regarding the hydrology of the site itself are contained in the Review of the Hydro Geological Report by Dan Whalen WW Engineering and Science dated Nov. 4, 91. The report addresses the technical data compiled by the landfill developer contained in the Application for Construction Permit for the Allis landfill site.

The Hydro Geological Report contains the soil boring logs that were made at the site. These logs confirm that the site is not a natural soil (clay) site as was stated by the landfill developers. Although there is some clay on site, many of the logs reveal only sand and gravel. Nearly all of the logs have intermittent lenses of sand and gravel. This report is also available upon request.

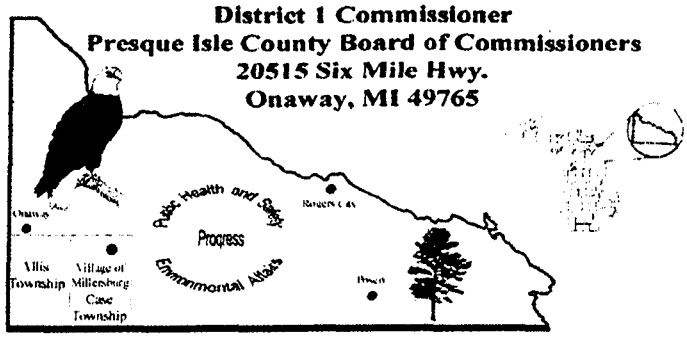
Allis Township commissioned W&W Engineering and Science to conduct a landfill site suitability study in Presque Isle County. To date it is the only scientific publicly funded information available in Presque Isle County. The study identified six areas of the county, ranked by order of priority, that showed the greatest potential for suitable landfill siting. The Allis landfill is located outside of the number three area. The results of this study are available for review. It is presented as further evidence of the improper siting of the Allis landfill.

In conclusion, the siting, construction, and operation of the Allis landfill is wrong. A permit to construct and a license to operate by the DNR and DEQ does not legitimize the siting of disposal capacity that is not needed to meet the long term disposal needs of any single county or the entire Northeast Michigan region.

Sincerely:

Wayne Vermilya

Phone: (517) 733-2462 E-Mail: wayemi@freeway.net
Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners
20515 Six Mile Hwy.
Onaway, MI 49765



January 5, 2000

Diane Rekowski
NEMCOG
P.O. Box 457
121 E. Mitchell
Gaylord, MI 49735

Dear Diane,

Please accept the following as comment to the Cheboygan County Solid Waste Plan Update.

As you are aware the Presque Isle County Board of Commissioners submitted a resolution regarding the solid waste disposal agreement between Cheboygan and Presque Isle Counties. I am very concerned about the possible implications which arise if the DEQ attempts to use the solid waste planning process to circumvent the ability of the (counties) to contract with each other. All county officials should beware of any such precedent.

The counties must also protect their import / export ability under the solid waste management act that has been upheld by the courts. This remains as a remedy for Presque Isle County if Cheboygan (or other counties) choose not to comply with the terms of the "agreements." Any interested party can propose amendment to a county plan to exclude import counties.

I wish to suggest to your planning committee that it may be in your best interest to distance your county as much as possible from the Presque Isle County landfill (Elk Run), you do not need the disposal option or the exposure given the status of that facility. I would request that Cheboygan County not name Presque Isle County as a disposal (export) county in the Cheboygan County Solid Waste Plan Update.

Sincerely,

Wayne

Wayne Vermilya
encls

Wayne Vermilya
District 1 Commissioner
Presque Isle County Board of Commissioners
20515 Six Mile Hwy
Onaway, MI 49765
February, 1998

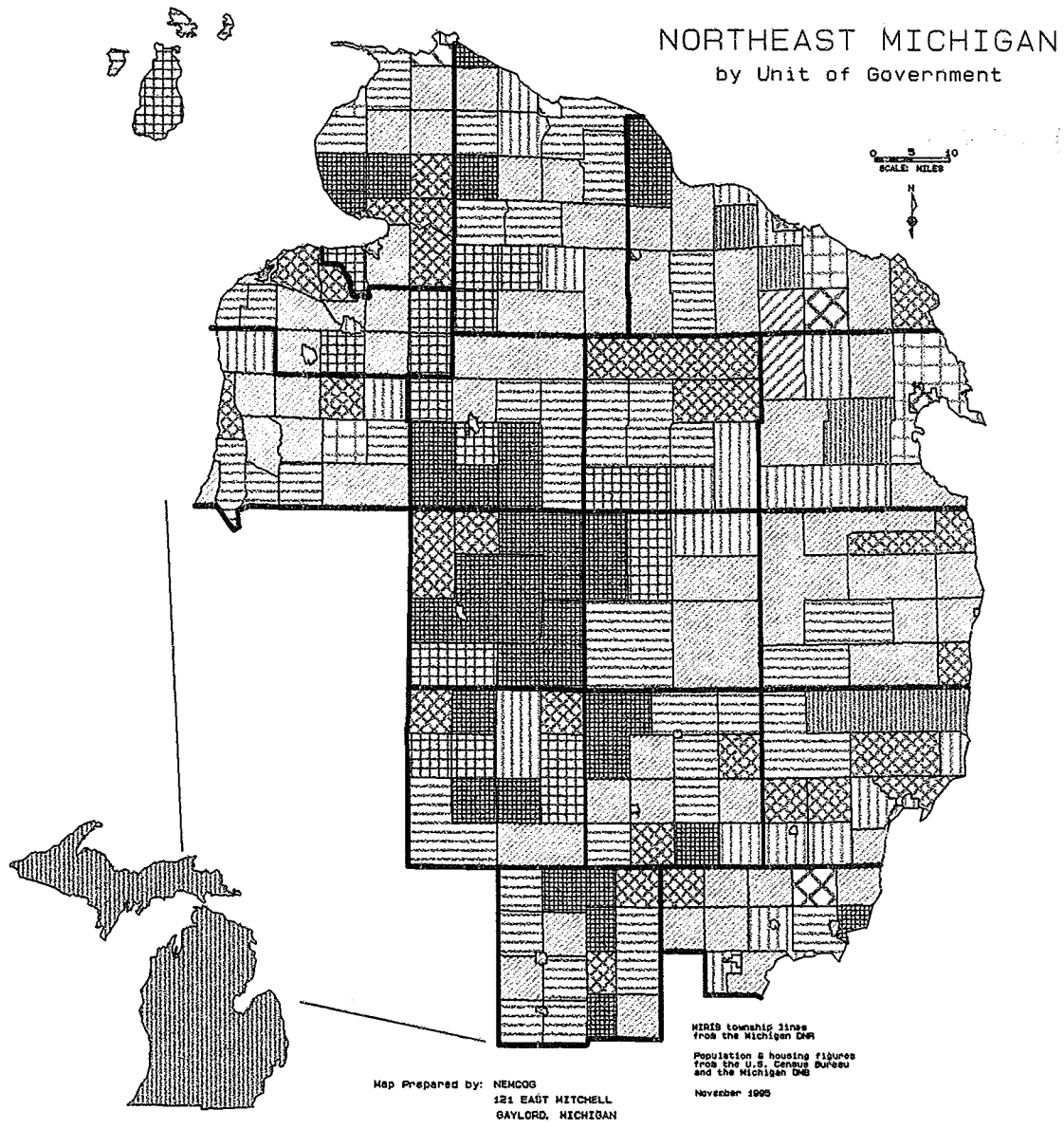
An objective look at the facts reveals how wrong it was to go through with the siting, construction, and operation of the Elk Run landfill located in Presque Isle County's Allis Twp.. As you can see from reading the chronology of events leading up to the current time, the solid waste transportation and disposal needs of the entire northern lower Michigan region have changed dramatically since the mid-1980's when the landfill developers first publicly appeared.

The specific concerns surrounding the Allis landfill are three fold. First, the environmental problems associated with the site. The proximity to the Kinney Island Bog and the Karst features (sink holes and swallow holes), is very much a real concern. Virtually no meaningful technical data exists regarding the areas karst formations. It just simply was not addressed in the regulations at the time. It is now, in part as a result of the Allis siting. The next concern involves the economic effects of oversiting disposal capacity. It is simply not cost effective to operate a landfill on such small volumes of waste that are available given the already existing capacity (see page E-15 of the Cheboygan or Alpena Co. Solid Waste Plan). Once again, today, the landfill could not be sited because the available capacity requirements in the regulations have been changed, in part due to the unnecessary siting of the Allis landfill. The third major concern is the political aspect. As the record shows, the siting of this landfill was quite simply a dirty political deal. The results have proven to be only short of disastrous for many of the entities involved. This break down of the political system has created many more losers than winners.

Specific Concerns regarding the Allis landfill addressed in greater detail

Item 1. The environmental problems associated with the site.

The entire site is virtually surrounded by a vast wetland system known locally as the Kinney Island Bog. Encompassing approximately 2000 acres, the bog also has within it several surface expressions of the areas karst formations. These include known sink holes and swallow holes. For your information, a swallow hole is like a spring that water goes into rather than comes out from. A swallow hole "swallows" water, in some cases very large volumes of water. In most cases these swallow holes are direct groundwater recharges to the fresh water aquifers that supply both municipal and residential water wells. Many of them are also direct conduits to the deep karst aquifer that is the energy force driving the dissolution of the subterranean minerals which is the cause of the surface expressions (sink and swallow holes etc.). Keep in mind that very little scientific or technical data exists on this karst system. One of the most detailed scientific studies that has been done, Tectonics, Structure, and Karst in Northern Michigan, Michigan Basin Geological Society 1983 Field Conference, contains a map that shows a fault line running



POPULATION

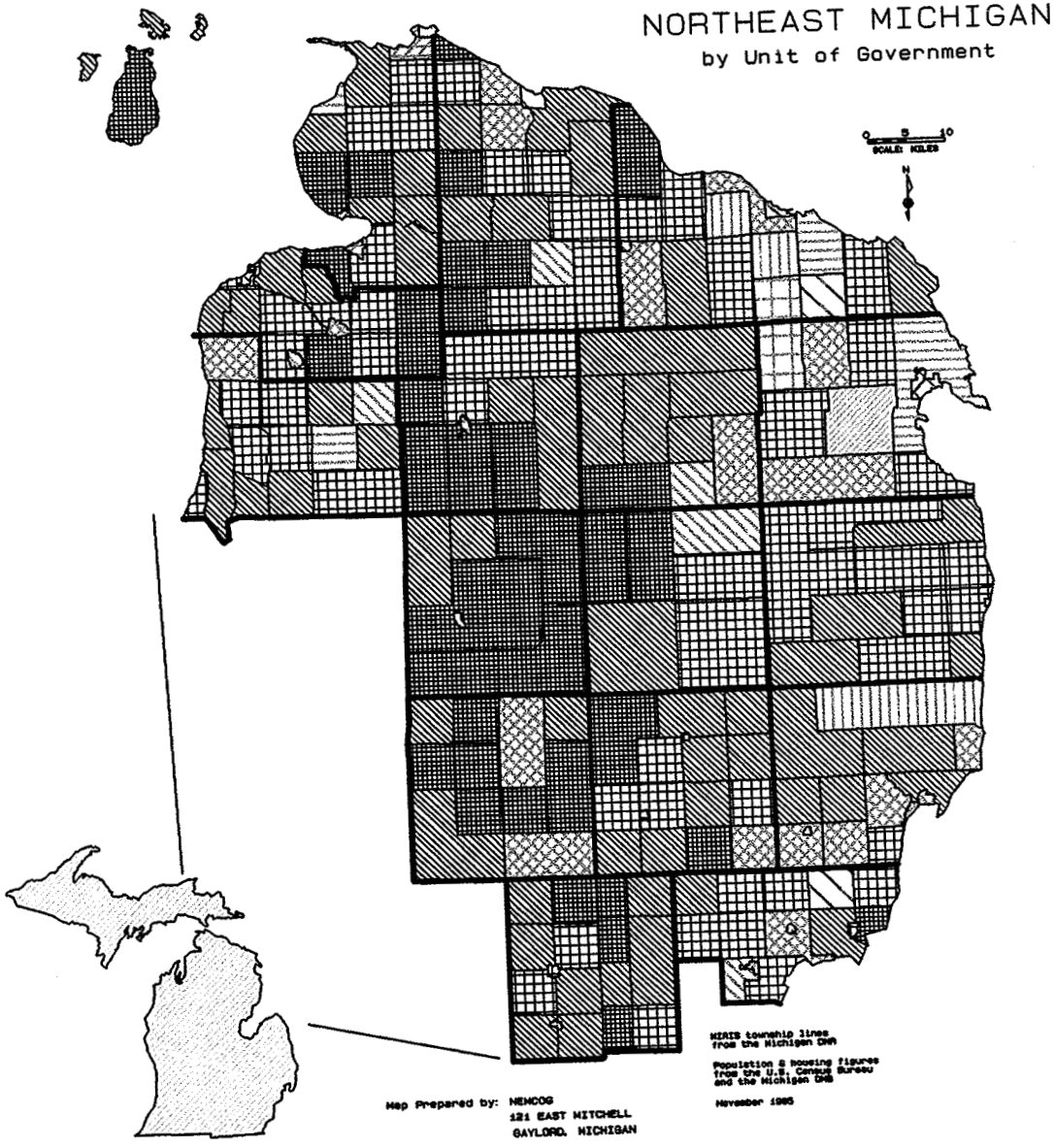
% CHANGE: 1970-1990

Legend

- -10.00% & Less
- -9.99% to -1.01%
- -1.00% to 1.00%
- 1.01% to 5.00%
- 5.01% to 10.00%
- 10.01% to 25.00%
- 25.01% to 50.00%
- 50.01% to 75.00%
- 75.01% to 100.00%
- 100.01% to 125.0%
- 125.01% & Greater

Northeast Michigan
16 Counties by MCD

NEMCOG GIS Program



% Change 1970 - 1990

Population Density

Legend

- -16.01% & Less
- -9.01% to -16.00%
- -6.01% to -9.00%
- -4.01% to -6.00%
- -1.01% to -4.00%
- -1.00% to 1.00%
- 1.01% to 4.00%
- 4.01% to 6.00%
- 6.01% to 9.00%
- 9.01% to 16.00%
- 16.01% to 25.00%
- 25.01% to 75.00%
- 50.01% to 100.0%
- 100.01% & Greater

Change in Persons Per Square Mile

NEMCOG GIS Program