



JENNIFER M. GRANHOLM
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



STEVEN E. CHESTER
DIRECTOR

February 13, 2007

Ms. Karen Lipovsky, Chair
Clare County Board of Commissioners
225 West Main Street
Harrison, Michigan 48625

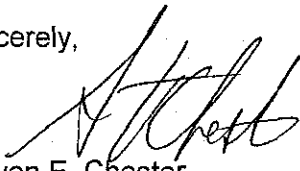
Dear Ms. Lipovsky:

The locally-approved amendment to the Clare County Solid Waste Management Plan (Plan Amendment) received by the Department of Environmental Quality (DEQ) on October 5, 2006, is hereby approved.

The Plan Amendment adds Midland and Wexford Counties to the Import Authorization Table in the Clare County Solid Waste Management Plan. The DEQ has determined that the Plan Amendment complies with the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and its administrative rules.

The DEQ would like to thank Clare County for its efforts in addressing its solid waste management issues. If you have any questions, please contact Ms. Rhonda Oyer Zimmerman, Chief, Solid Waste Management Unit, Storage Tank and Solid Waste Section, Waste and Hazardous Materials Division, at 517-373-4750.

Sincerely,


Steven E. Chester
Director
517-373-7917

cc: Senator Michelle McManus
Representative Tim Moore
Mr. Linden Beebe, Clare County Solid Waste and Recycling Coordinator
Mr. Jim Sygo, Deputy Director, DEQ
Ms. JoAnn Merrick, Senior Executive Assistant to the Director, DEQ
Ms. Carol Linteau, Legislative Liaison, DEQ
Mr. George W. Bruchmann, DEQ
Mr. Steve Sliver, DEQ
Mr. Terry Walkington, DEQ
Ms. Rhonda Oyer Zimmerman, DEQ
Ms. Christina Miller, DEQ
Clare County File

IMPORT AUTHORIZATION

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

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

| IMPORTING COUNTY | EXPORTING COUNTY | FACILITY NAME ¹ | AUTHORIZED QUANTITY DAILY | AUTHORIZED QUANTITY ANNUAL | AUTHORIZED CONDITIONS ² |
|------------------|------------------|----------------------------|---------------------------|----------------------------|------------------------------------|
| Clare County | Alcona | | | | P |
| | Antrim | | | | P |
| | Arenac | | | | P |
| | Bay | | | | P |
| | Charlevoix | | | | P |
| | Crawford | | | | P |
| | Emmett | | | | P |
| | Gladwin | | | | P |
| | Gratiot | | | | P |
| | Iosco | | | | P |
| | Isabella | | | | P |
| | Kalkaska | | | | P |
| | Lake | | | | P |

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

| IMPORTING COUNTY | EXPORTING COUNTY | FACILITY NAME ¹ | AUTHORIZED QUANTITY DAILY | AUTHORIZED QUANTITY ANNUAL | AUTHORIZED CONDITIONS ² |
|---------------------|---------------------|-------------------------------|------------------------------|----------------------------------|---------------------------------------|
| | Mecosta | | | | P |
| | Missaukee | | | | P |
| | Montcalm | | | | P |
| | Newaygo | | | | P |
| | Ogemaw | | | | P |
| | Osceola | | | | P |
| | Roscommon | | | | P |
| | Wexford | | | | P |
| | Midland | | | | P |

¹Facilities 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.

Clare County Solid Waste Management Planning Committee
Minutes of
June 28, 2006

I. Call to Order

Meeting called to order at 5:50 pm by Chair/Michael Kennedy.

II. Roll Call

Roll call revealed Debora Johnston, Jim Palmer, Jim Gelios, John Scherrer, George Randall, Mark Janeczko, and Bill Horwood, Chair Michael Kennedy, Vice-Chair Larry Gross, Norma Crawford, and Gerald Schmiedicke were all present. Absent members were Merle Harmon and Lynn Grim (excused).

Also present were Randy Terronez, Linden Beebe, and Lisa Bartus.

No others were present.

III. Approval of Minutes from 04-19-06

Motion by Gerald Schmiedicke to approve the minutes of the 04-19-06 Meeting. Seconded by Jim Palmer. Motion Approved 11-0.

IV. Close Regular Meeting of SWMPC

Regular meeting of SWMPC meeting closed, 5:53 pm.

Open Public Hearing, 5:53 pm.

Re-closed Public Hearing to wait for 6:00 pm time posted on Notice of Public Hearing.

Discussed handout "20 Things You Didn't Know About Garbage."

It was discussed that SWMPC may no longer be needed, but if need be, Lisa Bartus will send out notification to members.

Re-open Public Hearing, 6:01 pm.

No public present.

Terronez stated that as of 5:45 pm he had not received any written comments or questions in regards to modifying import authorization to include the Counties of Wexford and Midland in the Clare County Solid Waste Management Plan.

V. Close Public Hearing

Motion made by Gerald Schmiedicke to close public hearing. Seconded by Bill Horwood. Motion passed 10-1.

Clare County Solid Waste Management Planning Committee
Minutes of
June 28, 2006

VI. Act on Modifying Import Authorization to Solid Waste Management Plan

Gerald Schmiedicke made a motion to recommend to the Board of Commissioners to add Wexford and Midland County to list of counties with import authorization. Seconded by George Randall. Motion passed 11-0.

Chairperson Michael Kennedy stated, "Motion carried that we make recommendation to Board of Commissioners that we move forward with amending the Clare County Solid Waste Management Plan to include the Counties of Wexford and Midland."

VII. Set Time and Date for Next Meeting

As needed.

VIII. Adjourn SWMPC Meeting

Norma Crawford made a motion to adjourn, seconded by Debora Johnston. Motion passed 11-0.

Meeting adjourned 6:10 pm.

Michael Kennedy 7-19-06
Michael Kennedy date
Chairperson, Solid Waste Management Planning Committee

MINUTES OF THE CLARE COUNTY BOARD OF COMMISSIONERS

July 5, 2006
Harrison, Michigan 48625

7-19-06 Cam
Approved Minutes
Page One

The regular meeting of the Clare County Board of Commissioners was held on July 5, 2006, and called to order by Chairperson Karen Lipovsky at 4:00 p.m. along with the Pledge of Allegiance.

Roll call revealed seven members present being: C/Jordon Lockmiller, C/Lynn Grim, C/Forrest Meek, C/Julie Murphy, C/Jim Gelios, C/Robert Krainik and C/Karen Lipovsky.

A motion was made by C/Jordon Lockmiller and seconded by C/Lynn Grim to approve the agenda as presented. Motion carried.

A motion was made by C/Lynn Grim and seconded by C/Jordon Lockmiller to approve the minutes of July 21, 2006 as printed. Motion carried.

General Public Comment Time was opened at 4:03 p.m. with no public comment.

Correspondence was then addressed with #11 to be brought up at the County Forum to be held on July 11, 2006 at 7:30 p.m. in the basement of the Courthouse. Number #2 was referred to the Physical Resource Committee.

Dave Duikema, MSUE Regional Director approached the Board in regard to the funding and criteria in hiring for the MSUE Director vacancy. Mr. Duikema reiterated that the EC funding for Director's salary would be freed up, as MSUE would be covering 100%. He also, introduced Paul Gross, MSUE Director for Isabella County, who would be acting as interim for Clare County.

Rolly Lee, Veterans Affairs Director then introduced Executive Director, Daniel D. Hendee, who apprised the Board of the status of the Community Out Patient Clinic due to come into Clare County. Concern was had in regard to Wexford County getting a clinic instead of Clare County. Mr. Hendee affirmed, that Clare County was still in contention for being selected as a Community Based Out Patient Clinic (CBOC). If approved by fall, could be up and running as early as 2007.

Chairperson Karen Lipovsky then opened the public hearing on proposed Ordinance #21 (Clare County Farmland Purchase of Development Rights) at 4:40 p.m.

A Meth DVD Presentation was then conducted followed by a recess at 4:55 p.m. and back in session at 5:10 p.m. with committee reports.

Justice Committee:

A motion was made by C/Robert Krainik and seconded by C/Jim Gelios to approve a consent agenda on the following motions. Motion carried.

To approve Budget Adjustment #06-100 that makes a variety of Animal Control line-item transfers with funds to come from within the department budget in the total amount of \$2,614.

To approve a letter of thanks to the Mr. Bill Thrush of Holt for the significant dog food donation to the County's Animal Control Shelter that is valued in excess of \$4,000.

To approve the multi-year 2006/07 and 2007/08 DHS contract with the Public Guardian in the amount of \$5,810 for each year.

July 5, 2006
Harrison, Michigan 48625

7-19-06 Cam
Approved Minutes
Page Two

Justice Committee Continued:

To approve Budget Adjustment #06-98 that increases the Medical Examiner autopsy line item by \$11,000 and the mileage/travel line item by \$1,000 with funds to come from Contingency budget.

Health and Human Services Committee:

A motion was made by C/Jordon Lockmiller and seconded by C/Lynn Grim to approve the Veterans Affairs Department request to replace the department copier in the amount of \$498.25 with funds to come from Soldiers and Sailors Relief monies and approve Budget Adjustment #06-99. Motion carried.

Physical Resources and Economic Development Committee:

A motion was made by C/Forrest Meek and seconded by C/Jim Gelios to approve and submit to the State the Airport Five-year Annual Plan that identifies potential airport projects for a total amount of \$2,890,000. Motion carried.

A motion was made by C/Forrest Meek and seconded by C/Jordon Lockmiller to concur with the Solid Waste Management Plan Committee recommendation on the Clare County Solid Waste Management Plan amendment adding the counties of Midland and Wexford that could bring waste into the county; and authorize the distribution to the 19 local units of government in Clare County requesting their approval. Motion carried.

A motion was made by C/Forrest Meek and seconded by C/Lynn Grim to approve the \$2,500 additional appropriation to Middle Michigan Development Corporation with funds to come from the Contingency budget and approve Budget Adjustment #06-102. Motion carried.

Chairperson Karen Lipovsky then closed the public hearing on the proposed Ordinance #21(Clare County Farmland Purchase of Development Rights) at 5:20 p.m. with no public comment offered.

A motion was made by C/Forrest Meek and seconded by C/Jordon Lockmiller to adopt Ordinance #21 Clare County Farmland Purchase of Development Rights. Roll call revealed a unanimous vote of seven yeas being: C/Forrest Meek, C/Jordon Lockmiller, C/Lynn Grim, C/Robert Krainik, C/Julie Murphy, C/Jim Gelios and C/Karen Lipovsky. Motion carried.

Finance and Administration Committee:

A motion was made by C/Julie Murphy and seconded by C/Jordon Lockmiller to approve the amendments to Madison Life Insurance Policy in order to incorporate existing contract language, etc. Motion carried.

A motion was made by C/Julie Murphy and seconded by C/Jim Gelios to approve Commissioner Grim's attendance at the MMRMA Annual Meeting with funds to come from the liability insurance account. Motion carried.

A motion was made by C/Julie Murphy and seconded by C/Jordon Lockmiller to send a letter of opposition on HB 5124. Motion carried.

Chair and Vice Chair gave an update on community affairs along with the rest of the Board Members. County Administrator reported on the requests going out for bids in regard to the janitorial service, inmate phones and job study in the Prosecutor's Office. Budget 2007 will be presented at the next regular Board Meeting and volunteers were needed for the fair booth.

Public Comment Time was opened at 5:45 p.m. with no public comment.

July 5, 2006
Harrison, Michigan 48625


7-19-06 cam
~~Approved~~ Minutes
Page Three

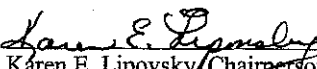
New Business:

A motion was made by C/Robert Krainik and seconded by C/Jim Gelios to approve the Sheriff's Department request to purchase a replacement kitchen commercial blender in the total amount of \$231.07 with funds to come from the Correction's budget and approve Budget Adjustment #06-103. Motion carried.

A motion was made by C/Robert Krainik and seconded by C/Jim Gelios to concur with the Sheriff's Department request to fill a vacant part-time road position officer due to the individual taking a full-time job with fringe benefits, due to the resignation of a Deputy Riley Olson. Motion carried.

With no further business to come before the Board, Chairperson Karen Lipovsky adjourned the meeting at 6:50 p.m.


Carol A. McAulay, County Clerk
Clare County Board of Commissioners


Karen E. Lipovsky, Chairperson
Clare County Board of Commissioners

/cam

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

May 30, 2001

Mr. Michael Haskin, Chairperson
Clare County Board of Commissioners
255 West Main Street
Harrison, Michigan 48625

Dear Mr. Haskin:

The Department of Environmental Quality (DEQ) received the locally approved update to the Clare County Solid Waste Management Plan (Plan) on November 27, 2000. Except for the item and clarification indicated below, the Plan is approvable. As outlined in the March 5, 2001 letter to Ms. Lynn Grim, Clare County Administrator, from Ms. Lynn Dumroese, DEQ, Waste Management Division, and as confirmed in Ms. Grim's letter dated March 22, 2001, the DEQ makes the following modification and clarification to the Plan:

On page D-5, the Plan states Clare County (County) requires written agreements with the counties that are authorized to export solid waste to the County for disposal. There is no mention of required intercounty agreements in the Import Authorizations Table on page III-3. In order to alleviate any discrepancy, a note is added to the Import Authorizations Table which states, "Clare County requires written agreements with the counties that are authorized to export solid waste to the County for disposal."

The Plan states, "Volume limits are addressed in Section 4.5 of the Development and Operation Agreement between Waste Management of Michigan and the Clare County Board of Commissioners dated June 18, 1990."; however, the Plan does not identify volume limits for imports or exports in the Import/Export Authorization Tables. The County's intent was to have this sentence included in the Attachments section for informational purposes, and the County did not intend on including volume limits as part of the Plan. Therefore, this clarification makes clear that volume limits have not been established in the Plan and any changes to the Plan's authorization can only be done through a properly promulgated Plan amendment.

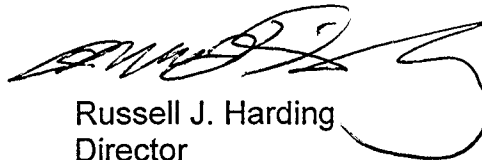
With these modifications, the County's updated Plan is hereby approved, and the County now assumes responsibility for the enforcement and implementation of this Plan. Please ensure that a copy of this letter is included with copies of the approved Plan distributed by the County.

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

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

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

Sincerely,



Russell J. Harding
Director
517-373-7917

cc: Senator Bill Schuette
Representative Sandy Caul
Ms. Lynn Grim, Clare County Administrator
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Ms. Edwin Haapala, DEQ – Saginaw Bay
Ms. Rhonda Oyer Zimmerman, DEQ
Ms. Lynn Dumroese, DEQ
Clare County File

Clare County Administrator
Lynn Grim
225 W. Main
P.O. Box 438
Harrison, MI 48625
Telephone (517) 539-2510
Fax (517) 539-2588
adm@clareco.net

WASTE MANAGEMENT DIVISION

MAR 27 2001

RECEIVED



March 22, 2001

Ms. Lynn Dumroese
Solid Waste Management Unit
Waste Management Division
Department of Environmental Quality
P. O. Box 30473
Lansing, Michigan 48909-7973

Dear Ms. Dumroese:

In response to your letter dated March 5, 2001, the Clare County Board of Commissioners respectfully requests the DEQ to approve the Clare County Solid Waste Management Plans with the modifications recommended in your letter.

Clare County Board of Commissioners met in regular session on March 21, 2001 and reviewed the two recommended changes to the Clare County Solid Waste Management Plan. The Board of Commissioners concurred with your recommendation of approving the following change and clarification:

On page D-5, the Plan states Clare County (County) requires written agreements with the counties that are authorized to export solid waste to the County for Disposal. There is no mention of required intercounty agreements in the Import Authorizations Table on page 111-3. In order to alleviate any discrepancy, a note should be added to the Import Authorization Table which states, "Clare County requires written agreements with the counties that are authorized to export solid waste to the County for disposal."

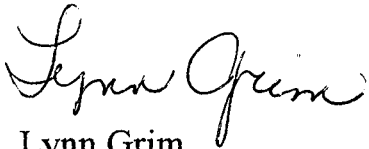
A clarification is needed in regard to the volume limits discussed on page D-6; however, this clarification does not require a modification to the Plan. This clarification is needed because the Plan states, "Volume limits are addressed in Section 4.5 of the Development and Operation Agreement between Waste

March 22, 2002
Ms. Lynn Dumroese
Page 2

Management of Michigan and the Clare County Board of Commissioners dated June 18, 1990.”; however the Plan does not identify volume limits for imports in the Import/Export Authorization Tables. From our conversation, this sentence was included in the attachments section for informational purposes and the County did not intend on including volume limits as part of the Plan. Therefore, this clarification makes clear that volume limits have not been established in the Plan and any changes to the Plan’s authorization can only be done through a properly promulgated Plan amendment.

Thank you for your consideration and we look forward to approval of the Clare County Solid Waste Plan so that we may continue our efforts for comprehensive, convenient, and cost effective waste reduction and resource recovery efforts.

Respectfully,

A handwritten signature in cursive script, appearing to read "Lynn Grim".

Lynn Grim,
Administrator

Lg/

Clare County Administrator
Lynn Grim
225 W. Main
P.O. Box 438
Harrison, MI 48625
Telephone (517) 539-2510
Fax (517) 539-2588
clarecountyadmin@mich.com

WASTE MANAGEMENT DIVISION

NOV 27 2000

RECEIVED



November 22, 2000

Mr. Seth Phillips
DEQ
P.O. Box 30241
Lansing, MI 48909

Re: Clare County Final Solid Waste Management Plan

Dear Mr. Phillips:

Enclosed please find the Final Clare County Solid Waste Management Plan together with a list of our municipalities with their responses, fulfilling the County's obligation to obtain the necessary 67% approval.

The Clare County Board of Commissioners hereby requests the Department of Environmental Quality to please accept the final plan.

If we can be of any further assistance, please advise.

Respectfully,

A handwritten signature in cursive script that reads "Lynn Grim".

Lynn Grim
Clare County Administrator

Enclosures

Clare County Administrator
Lynn Grim
225 W. Main
P.O. Box 438
Harrison, MI 48625
Telephone (517) 539-2510
Fax (517) 539-2588
clarecountyadmin@mich.com



November 28, 2000

Ms. Lynn Dumroese
DEQ – Waste Management Division
Fax Number 517-373-4797

Dear Ms Dumroese:

Per our telephone conversation this date, attached is the Garfield Township's full Board Meeting of August 28, 2000. I am also attaching Winterfield Township who have also approved the Plan.

If we can be of any further assistance, please advise.

Respectfully,

Lynn Grim,
Administrator

11/28/00 LAG

RECEIVED

Garfield Township
Regular Board Meeting
August 28, 2000
7:30 P.M.

The meeting was called to order by Supervisor Scott leading the Pledge of Allegiance.

Board members present were: Scott, Kedrowski, Yarhouse, Mowery. McLane was absent.

Also attending were Fire Chief Irwin, Sheriff Goyt and 25 citizens.

Minutes of the last meeting July 24, 2000 were approved with a motion by Kedrowski supported by Yarhouse. All ayes. Motion carried.

The Treasurers report was approved with a motion by Kedrowski supported by Mowery. All ayes. Motion carried.

Regular meeting was recessed.

Public Hearing was opened for Gray Lake Sub #3.

This was a confirmation hearing to review the Special Assessment Roll for the purpose of defraying a part of the cost of certain improvements and the paving of Alpine dr from SE line of lot 169 to West line of Lot 199, & Birch St. After a discussion the Public Hearing was closed.

Regular meeting was resumed.

Fire report was given by Irwin. They had 1 fire, 15 medical and 3 P.I.'s. The equipment truck is painted. The fire dept would like to get a computer. They have looked into the costs for what they need.

Gateway - \$1600. 800 MHZ Processor. 17" monitor, 128 MB SDRAM, 30 GB ultra ATA 66 7200 RPM Hard Drive.

Atlas - \$1361. It is a Pentium III Processor at 750 MHz, 100MHz FSB, 256K Cache, Has a 17" monitor, windows 98, 128MB PC-100 SDRAM memory, a 30GB Hard Drive, AGP video card, speakers, and 56KV90PCImodem w/voice.

Microflex \$1479. 600 MHz, 128 MB ADRAM Memory, 17" Monitor, CD_ROM/DVD Drive, 18GB UDMA 66Mb Hard Drive.

Dell - \$1464.

A motion by Kedrowski supported by Yarhouse to buy the Atlas Computer. All ayes. Motion carried.

No County Commissioners report.

No County Road Report.

Sheriff Goyt gave a brief message about what has been done at the dept since he was sheriff and ask for the peoples support in nominating him in November.

No Correspondence.

County is getting ready to do the grade work on Hillcrest-North Loop and Gray Lake Sub #3.

Brining has started in the Township.

A resolution to confirm the Gray Lake Sub #3 Assessment Roll was offered by Kedrowski and supported by Yarhouse.

Ayes: Scott, Kedrowski, Yarhouse, Mowery.

Nays: None.

Absent: McLane.

Resolution adopted.

Scott had a petition for N. Crooked Lake Dr-Woodland-Island to pave the road. 52.8% frontage and 15 people signed.

After a short discussion a motion by Kedrowski supported by Yarhouse to accept the petition. All ayes. Motion carried.

A resolution to approve the Final Draft of the Solid Waste Plan was offered by Kedrowski supported by Mowery.

Ayes: Scott, Kedrowski, Yarhouse, Mowery.

Nays: None,

Absent: McLane.

Resolution adopted.

A Public Hearing in March 2000, a motion to not exceed \$15.00 on the assessment roll for Gypsy moth was made. Scott said that the figure he came up with would be \$22.35. After a discussion a motion by Kedrowski supported by Yarhouse not to exceed \$15.00 on the assessment roll for the gypsy moth. All ayes. Motion carried.

Scott discussed the fact that Mowery needs more room in the office. He said building a pole barn for the Twp truck, trailer and backhole at the transfer station would cost about \$15,000. then to make the garage into office space would probably be another \$15,000. The board to think about it.

A motion by Kedrowski supported by Mowery to pay the bills of \$15,672.26 and wages of \$6,578.42. All ayes. Motion carried.

A motion by Yarhouse supported by Mowery to Adjourn the meeting. All ayes. Motion carried. Meeting adjourned at 9:15 P.M.

Supervisor

Clerk

RESOLUTION OF THE WINTERFIELD TOWNSHIP BOARD

DATED: September 5, 2000

WHEREAS; The Clare County Solid Waste Planning Committee has submitted a solid waste management plan update for consideration by the Winterfield Township Board and,

WHEREAS; The plan requires approval by several Clare County townships and,

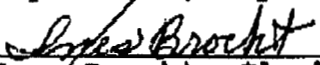
WHEREAS; The Winterfield Township Board has reviewed the plan and concurs with the recommendations as submitted and,

THEREFORE; Be it resolved that the Winterfield Township Board by roll call vote hereby approves the proposed plan and affixes the signatures of the Township Board members hereto.

Executed this 5th day of September 2000.

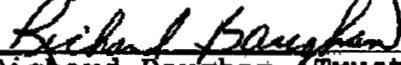
BY:


Ray Goeman, Supervisor


Ines Brocht, Clerk


Linda Peterson, Treasurer


Harry Martin, Trustee


Richard Baughan, Trustee

*Updated 11-28-00***LIST OF MUNICIPALITIES AND RESPONSES**

| | DATE | TOWNSHIP | ACCEPT OR NOT |
|-----|--------------------|----------------------|-----------------------------|
| 1. | August 28, 2000 | Garfield Township | YES |
| 2. | September 5, 2000 | Winterfield Township | YES |
| 3. | September 5, 2000 | City of Harrison | YES |
| 4. | September 7, 2000 | Hamilton Township | YES |
| 5. | September 5, 2000 | Surrey Township | YES |
| 6. | October 2, 2000 | Greenwood Township | YES |
| 7. | September 18, 2000 | Village of Farwell | YES |
| 8. | October 17, 2000 | Frost Township | YES |
| 9. | October 17, 2000 | Hatton Township | Not to accept or approve |
| 10. | October 18, 2000 | Redding Township | YES |
| 11. | October 24, 2000 | Summerfield Township | YES |
| 12. | November 6, 2000 | City of Clare | YES |
| 13. | November 8, 2000 | Hayes Township | YES |
| 14. | October 19, 2000 | Franklin Township | YES |
| 15. | November 6, 2000 | Arthur Township | YES |
| 16. | | Grant Township | No Response |
| 17. | | Lincoln Township | No Response |
| 18. | | Sheridan Township | No Response |

Clare County Administrator
Lynn Grim
225 W. Main
P.O. Box 438
Harrison, MI 48625
Telephone (517) 539-2510
Fax (517) 539-2588
clarecountyadmin@mich.com

COPY



August 16, 2000

To: All Clare County Townships and Municipalities

Re: Final Draft, Clare County Solid Waste Management Plan Update, dated June 20, 2000

Enclosed please find the **Final Draft** of the Clare County Solid Waste Management Plan Update together with a letter from the Clare County Solid Waste Planning Committee, explaining the differences between the existing plan and the draft update.

After review by your Board or Council, please submit documentation as to whether or not they approve or disapprove, (which should include the date of the vote and how each member voted), of the Solid Waste Management Plan Update.

Please return your documentation by November 15th, or as soon as is possible, in the self-stamped envelope to:

Lynn Grim, Clare County Administrator
225 West Main Street – P. O. Box 438
Harrison, Michigan 48625

It is essential that the County has 67% of the various County Governmental Entities approve of the Plan before it will be recognized by the Michigan Department of Environmental Quality, Waste Management Division; if we do not obtain the necessary 67% approval, the D.E.Q. will write the Solid Waste Plan for our County.

Respectfully,

Lynn Grim,
Administrator

cc: County Clerk
Board of Commissioners (7)
Enclosures

Solid Waste Management Planning Committee
Seth Phillips, D.E.Q.
Lynn Dumroese, D.E.Q.

LIST OF MUNICIPALITIES AND RESPONSES

| | DATE | TOWNSHIP | ACCEPT OR NOT |
|-----|---------------------------|-----------------------------|-------------------------------------|
| 1. | August 31, 2000 | Garfield Township | YES |
| 2. | September 6, 2000 | City of Harrison | YES |
| 3. | September 8, 2000 | Hamilton Township | YES |
| 4. | September 27, 2000 | Surrey Township | YES |
| 5. | October 2, 2000 | Greenwood Township | YES |
| 6. | October 4, 2000 | Village of Farwell | YES |
| 7. | October 19, 2000 | Frost Township | YES |
| 8. | October 20, 2000 | Hatton Township | Not to accept or approve |
| 9. | October 23, 2000 | Redding Township | YES |
| 10. | October 24, 2000 | Summerfield Township | YES |
| 11. | November 6, 2000 | City of Clare | YES |
| 12. | November 8, 2000 | Hayes Township | YES |
| 13. | November 15, 2000 | Franklin Township | YES |
| 14. | November 17, 2000 | Arthur Township | YES |
| 15. | | Freeman Township | No Response |
| 16. | | Grant Township | No Response |
| 17. | | Lincoln Township | No Response |
| 18. | | Sheridan Township | No Response |
| 19. | | Winterfield Township | No Response |

CLARE COUNTY BOARD OF COMMISSIONERS

FACSIMILE TRANSMITTAL SHEET

| | |
|------------------------------------|---|
| TO: <i>Lynn Dumroese</i> | FROM: <i>Nancy Byard</i> |
| COMPANY: | DATE: <i>12-7-00</i> |
| FAX NUMBER: <i>517-373-4797</i> | TOTAL NO. OF PAGES INCLUDING COVER: <i>2</i> |
| PHONE NUMBER: | SENDER'S REFERENCE NUMBER: |
| RE: | YOUR REFERENCE NUMBER: |

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY

NOTES/COMMENTS:

CLARE COUNTY BUILDING
225 WEST MAIN STREET
P.O. BOX 438
HARRISON, MI. 48625
PHONE 517-539-7436 FAX 517-539-2588

FROM : CLARE COUNTY COMMISSIONERS
Dec 07 00 10:18a

PHONE NO. : 517 539 2588
Sue Wentworth

Dec. 07 2000 02:18PM P2
517-386-4209 p.2

GRANT TOWNSHIP

Clare County

Clare, Michigan 48617

October 16, 2000

Solid Waste Planning Committee
c/o Clare County Board of Commissioners
225 W. Main Street
Harrison, MI 48625

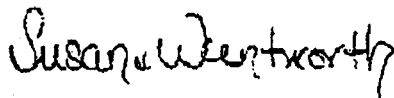
To Whom It May Concern:

Please note the following excerpt from the minutes of the Regular Meeting of the Grant Township Board held on October 10, 2000:

Motion to accept the Solid Waste Plan as presented
made by Ralph Cleveland, seconded by Tammy Shea.
Yeas; Armentrout, Wentworth, Shea, Cleveland, Bell.
Nays; none.

If you have any further questions regarding this matter, please feel free to phone me at (517)386-4209.

Sincerely,



Susan I. Wentworth
Grant Twp Clerk

RECEIVED
8-31-00

Garfield Township
Regular Board Meeting
August 28, 2000
7:30 P.M.

The meeting was called to order by Supervisor Scott leading the Pledge of Allegiance.

Board members present were: Scott, Kedrowski, Yarhouse, Mowery. McLane was absent.

Also attending were Fire Chief Irwin, Sheriff Goyt and 25 citizens.

Minutes of the last meeting July 24, 2000 were approved with a motion by Kedrowski supported by Yarhouse. All ayes. Motion carried.

The Treasurers report was approved with a motion by Kedrowski supported by Mowery. All ayes. Motion carried.

Regular meeting was recessed.

Public Hearing was opened for Gray Lake Sub #3.

This was a confirmation hearing to review the Special Assessment Roll for the purpose of defraying a part of the cost of certain improvements and the paving of Alpine dr from SE line of lot 169 to West line of Lot 199, & Birch St. After a discussion the Public Hearing was closed.

Regular meeting was resumed.

Fire report was given by Irwin. They had 1 fire, 15 medical and 3 P.I.'s. The equipment truck is painted. The fire dept would like to get a computer. They have looked into the costs for what they need.

Gateway - \$1600. 800 MHZ Processor. 17" monitor, 128 MB SDRAM, 30 GB ultra ATA 66 7200 RPM Hard Drive.

Atlas - \$1361. It is a Pentium III Processor at 750 MHz, 100MHz FSB, 256K Cache, Has a 17" monitor, windows 98, 128MB PC-100 SDRAM memory, a 30GB Hard Drive, AGP video card, speakers, and 56KV90PCImodem w/voice.

Microflex \$1479. 600 MHz, 128 MB ADRAM Memory, 17 " Monitor, CD_ROM/DVD Drive, 18GB UDMA 66Mb Hard Drive.

Dell - \$1464.

A motion by Kedrowski supported by Yarhouse to buy the Atlas Computer. All ayes. Motion carried.

No County Commissioners report.
No County Road Report.



City of Harrison

P.O. BOX 378
HARRISON, MICHIGAN 48625

Playground Of The North

Phone: 517-539-7145

September 6, 2000

Lynn Grim, Administrator
County of Clare
POB 438
Harrison, MI 48625

RE: Clare County Solid Waste Plan Update, Dated June 20, 2000

Dear Ms. Grim:

This letter is to advise you that at a regular meeting of the Harrison City Council Held on September 5, 2000 a motion was made by Damvelt and supported by Cobb to approve the Clare County Solid Waste Plan. Those for the motion: Damvelt, Cobb, Knoll, O'Leary, and Sullivan. Opposed: None. Absent: Duggan.

Very truly yours,



Jack H. McNutt
City Clerk

Hamilton Township — Clare County

HARRISON, MICHIGAN 48625

Board Meeting Held Sept 7, 2000

Meeting called to order by chairman. After the pledge was roll call, all members present. This meeting will be run under the Roberts Rule of Order.

Reading of last months minutes. Read & approved. Treasurers report was read: Motion made by Weakland and 2nd by Grunas to except as read. M.C. Reading of the bills: Motion made y Grunas and 2nd by Lieber to pay bills as they are due for the month. M.C.

Chairman asked Board if we need to brine the roads one last time for the year. After discussion on this issue a Motion was made to brine one more time. Motion made by Grunas 2nd by Weakland M.C. Chairman will contact the Road Commission to have them blade roads before they are brined.

Letter read from Lynn Grim requesting documentation of our Boards vote on whether or not we approve or disapprove of the Final Draft of the Clare County Solid Waste Planning Committee. Motion made by Zelt 2nd by Shea to approve this draft with a vote of 5 yeas 0 nays: Weakland yes - Grunas yes - Shea yes - Lieber yes - Zelt yes . M.C.

Chairman reported on the Gypsy Moth millage which passed and how the assessment will take place: a double assessment will be on your taxes for the first year and then only one assessment there after.

Discussion on the loaning of the Township table and chairs. Due to the wear and the condition of them, a suggestion was made to start charging a fee for when they are used outside of the hall. After discussion a motion was made by Grunas 2nd by Lieber to charge \$10.00 fee for the use of them. (regardless of how many may be used). M.C.

Chairman reported the need to replace our member Cliff Correct due to death on the Board of Review. Mr. Ron Tobias has agreed to fill this position. Motion made by Shea 2nd by Weakland to approve Mr. Toabias on the Board of Review for a term of three years starting as of this date. M.C.

Another replacement is needed for Ray Reedy due to death on the Board of Appeals. Motion was made by Grunas to appoint Dave Wright for this position due to the fact the by-laws state a member of the Zoning Board should also serve on the Board of Appeals and at the present time we do not have anyone. Mr. Wright is on the Ballot in November and due to the outcome of this election for supervisor he may not be able to continue to fill this position so it was suggested to have him fill this position temporally until Nov. Motion made by Grunas 2nd by Lieber to appoint Mr. Wright until November. M.C.

Discussion on documentation received for Deputy Zelinski on the proper wording for the no-wake Resolution in the Township. After reading this over board agreed to file another Resolution Watercraft as suggested by Mr. Zelinski. Motion made by Grunas 2nd by Lieber to pass Resolution: Lieber, yes - Grunas - yes - Shea, yes - Weakland, yes - Zelt, yes M.C. with 5 yeas & 0 nay. This will include: Dodge Lk, Boathouse Lk, Sand Lk. Haven Lk & canals Townline Lk

Channels & Canals , Icehouse Lk.

Chairman suggested placing bids for snow removable. This should be stated for the following conditions: The first Thursday of every month - anything over 3 inches - or at the request of the Clerk or Treasurer. This bid is to reflect either by the hour, each trip or by the season. The transfer station must state that it will be done before 10:00 a.m. every Saturday & Sunday and if needed for early Monday transfer pick up. This must also be stated by the hr, job or Season.. Request that this be returned by October 5 board meeting.

Lynn Grimm informed Board we were not in compliance with the state regulations do to the fact we did not file and Ordinance stating we were turning the building inspector position back to the County. Therefore this Board needs to pass an ordinance stating as such. Motion made by Zelt 2nd by Lieber to adopt Ordinance #50 stating Hamilton Twp is returning the building inspector position back to the county. M.C.

Letter read from the Northern Oaks Landfill requesting for permit on a lake . Board approved turning this over to the Board of Appeals. Barb Grunas agreed to take this information to the next Appeals meeting for them to follow up on with a Public Hearing.

Signatures were requested by the Supervisor and Clerk for the Equalization office varfiing our millage request.

MTA request a Resolution be passed to appose Proposal 002. Motion made by Lieber 2ne by Grunas to appose. M.C.

Agreement from Superb Sanitation needed to be signed by Chairman for a contract of two more years.

Resident inquired on the possibility of having landfill open more hours to avoid some of the early dumping at gated. After much discussion, motion made by Weakland 2nd by Lieber to open Landfill on Sat. & Sun 10:00 a.m to 5:00.m. M.C.

Charles Pardue reported 2 members on the Lake Board passed away and needs to be replace, one of which needs to be a Township resident. A member is needed by the 14th in order to have a quorum. Gordon Sorenson has volunteered for this position until the General Election outcome due to the fact he is running for Twp Supervisor. Board approved his position .

Resident request on cable installation. Mrs. Lieber informed them of her conversation with the company. As long as we hold a franchise this company no other company is aloud in to this area. We will contact ours and see if they are able to install more lines.

Motion to adjourn by Grunas 2nd by Weakland. M.C.

Sally Zelt
Hamilton Twp Clerk

**SURREY TOWNSHIP REGULAR BOARD MEETING
SEPTEMBER 5, 2000**

The meeting was called to order by Supervisor N. Jones at 7:30 p.m. . Board members present were N. Jones, E. Pitchford, C. Dixon, S. Guyer, D. Coker. Supervisor led in the Pledge to Flag.

MINUTES :

S. Guyer moved to approve minutes of August 1, 2000 and special meeting of August 22, 2000 Public Hearing Lake 13, supported by D. Coker, all yeas, motion carried.

BILLS :

D. Coker moved to pay General Bills check #15600 thru 15621. Fire fund check # 4208 thru 4224 , supported by E. Pitchford. **ROLL VOTE :** N. Jones-yea, D. Coker-yea, E. Pitchford-yea, S. Guyer-yea, C. Dixon-yea, motion carried.

TREASURER'S REPORT :

The Treasurer's report was presented for review.

FIRE REPORT :

Captain Dave Williams reported 26 run for the Month of August.

E. Pitchford moved to pay Chief Al Williams two Months pay (July & August) , supported by D. Coker. **ROLL VOTE :** S. Guyer-yea, E. Pitchford-yea, D. Coker-yea, C. Dixon-yea, N. Jones-yea, motion carried.

COUNTY COMMISSIONER :

Commissioner John Parker gave out minutes of September 5, 2000 meeting .

ZONING :

Zoning administrator Richard Reuther gave the Zoning report. 10 permits, 3 notices/letters of violations issued, 12 ordinance cases pending, 2 cases closed. Mileage for the Month 140.

OTHERS :

Mr Jim Gelios addressed the board asking for our support in the up coming General Election in November. He is running for Clare County Sheriff.

PUBLIC COMMENT :

Mr Jeff Goyt addressed the board asking for our support in the up coming General Election in November. He is running for Clare County Sheriff. He has been the Sheriff since 1997.

Mr Michael J. Summers is running for County Drain Commissioner and addressed the board asking for our support also in the up coming General Election in November.

UNFINISHED BUSINESS :

S. Guyer moved to adopt the Noise Ordinance as presented, supported by C. Dixon .
ROLL VOTE : E. Pitchford-yea, S. Guyer-yea, C. Dixon-yea, D. Coker-yea, N. Jones-yea, motion carried.

ROLL VOTE : N. Jones--yea, E. Pitchford--yea, S. Coker--yea, S. Guyer--yea, C. Dixon--yea, motion carried.

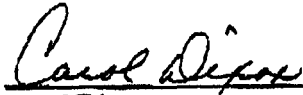
S. Guyer moved to not pay half of the cost of removing and disposing of the structure of Mr. Furman house, supported by E. Pitchford. ROLL VOTE : D. Coker--yea, N. Jones--yea, C. Dixon--yea, S. Guyer--yea, E. Pitchford--yea, motion carried.

NEW BUSINESS :

The Board postponed the decision on Pine Tree Estates property number 014-016-200-13 that there was not enough present for a quorum.

D. Coker moved to accept the Final Draft, of the Clare County Solid Waste Management Plan Updated, dated June 20, 2000, supported by S. Guyer. ROLL VOTE: D. Coker--yea, E. Pitchford--yea, N. Jones--yea, C. Dixon--yea, S. Guyer--yea, motion carried.

With no other business to come before the board N. Jones adjourned the meeting at 8:45 p.m.



Carol Dixon
Surrey township Clerk

Greenwood Township
Harrison, Michigan 48625

RECEIVED
11-6-00

Office of Clerk

November 4, 2000

Clare County Administrator
Lynn Grim
PO Box 438
Harrison, MI 48625

RE: Final Draft, Clare County Solid Waste Management Plan Update, dated June 20, 2000

Dear Lynn,

After review of the Final Draft of the above mentioned plan, at the regular meeting of the Greenwood Township Board on October 2, 2000, the Board approved the proposed plan.

Roll call vote was taken. Frank Sprague, Aye; James Korman, Aye; Shirley Mayfield, Aye; Marvyn Geeting, Aye; Sheila Sachen, Aye. "Nays", None.

Sincerely,



Sheila Sachen, Clerk

RECEIVED
10-9-00

RESOLUTION OF THE VILLAGE OF FARWELL COUNCIL

DATED: September 18, 2000

WHEREAS, The Clare County Solid Waste Planning Committee has submitted a solid waste management plan update for consideration by the Village of Farwell Council and,

WHEREAS, The plan requires approval by several Clare County Townships and,

WHEREAS, The Village of Farwell Council has reviewed the plan and concurs with the recommendations as submitted and,

WHEREAS, C/Chrispell moved, supported by C/Brewer to offer the Resolution of Support and,

WHEREAS, Be it resolved that the Village of Farwell Council hereby approves the proposed plan

Executed this 18th day of September 2000.

Nancy Thrush, Village Clerk

Nancy Thrush

The Special meeting of the Farwell Village Council was called to order at 6:30 p.m. with President Steven Grim presiding September 18, 2000.

Pledge of Allegiance

Roll Call: Present: C/Brewer, C/Marshall, C/Agle, C/Wilson, C/Renner, C/Chrispell and Pres. Grim.

C/Agle moved, supported by C/Chrispell to approve the minutes of the July 31, August 7, August 28 and September 11 meetings the September 11 meeting was also the LDFA and Village Council meeting together with corrections addition Jim Collison and Aileen Waldron representative in the July 31 minutes. Motion Carried.

Reviewed Treasurer Report

C/Marshall moved, supported by C/Agle to approve the bills for August in the amount of \$66,729.45 total of all funds. Motion Carried.

The Farwell Village Council accepted the agenda no corrections.

Reviewed proposal for new parking lot on the corner of Main Street & Potter Street for the Farwell Area School Mr. Peter Lorenz from Lapham and Associates was present to review the plans. Discussion on closing the alley, about snow plowing and removal of snow and drainage of water and if the drain can drain the water fast enough.

Restrictions on the approval of the new parking lot for the school filter and pea gravel around the drain, restriction to reduce flow and the school will be responsible for the maintenance of the parking lot. The alley will not be closed.

Adjourned the Village Council Meeting at 7:30 p.m. Called the Farwell Planning Commission to order at 7:30 p.m. Roll Call: Present: Vicky Gunden, Nancy Thrush, Steve Grim and Dawn Chrispell. Absent: Marshall Birdsong and Doris Marshall.

Discussion on the proposal for the School Parking Lot. Discussed restrictions for the new parking lot filter and pea gravel around the drain, restriction to reduce flow and the school will be responsible for the maintenance of the parking lot the alley will remain a public alley.

Dawn Chrispell moved, supported by Vicky Gunden to approve the proposal on the new parking lot for the school with the above restriction noted. Motion Carried.

Adjourned the Farwell Planning Commission meeting at 7:40 p.m.

Farwell Village Special Council meeting reconvened at 7:40 p.m.

C/Agle moved, supported by C/Wilson to accept the Farwell Planning Commission recommendation for the Farwell Area School new parking lot with the restriction of a filter and pea gravel around the drain, restriction to reduce flow and the school will be responsible for the maintenance of the parking lot. Motion Carried.

No Public comments Vicky Gunden and Paul Bailey were present.

DPW Committee Report

1. Reported the inspection on the tower went well.
2. Discussion on getting the tower power washed estimated cost was for \$2,600 going to get a couple of more prices.
3. Fall Cleanup October 9th thru the 12th, 2000.
4. Flushing Hydrants C/Marshall going to check with Aaron Moline.
5. Lead & Copper report good.

DPW Committee Report Continued

6. Check with Blue Cross and see if someone retires if they can pay it themselves and continue on the Village Blue Cross.
7. Chip the brush on Floyd Street and send them a letter if they continue to clear property they will have to pay to have it chipped or hauled away.
8. Rail to Trails no improvements this year.
9. Reviewed the Enclosed permit from DEO on the Authorization to Discharge by the Village of Farwell of 1.56 million gallons per day (62 million gallons per year) of treated municipal wastewater.

C/Brewer moved supported by C/Chrispell to purchase a new copier from Advanced Business Machine with a maintenance agreement cost \$3,590. Motion Carried.

C/Chrispell moved, supported by C/Brewer to give there support to The Clare County Planning Commission Proposed Solid Waste Management Plan update. Motion Carried.

C/Marshall moved, supported by C/Wilson to enter into a agreement with Department of Transportation for a five year contract between the Village of Farwell and MDOT on the maintenance of the Truckline or M 115. Motion Carried. Copy attached.

C/Marshall moved, supported by C/Renner to accept the letter of resignation from Sam Guyer from the Farwell Planning Commission Motion Carried.

Letter from Paul Bailey he is interested in being on the Farwell Planning Commission.

Pres. Grim moved, supported C/Agle to appoint Paul Bailey to the Farwell Planning Commission effective October 1, 2000 Motion Carried.

Discussion on purchasing a spring from Game Time for one of the toys in the park that broke tabled until next meeting

Recommendation from the Farwell Planning Commission to move ahead on updating of the Zoning Ordinances correspondence from Linda Anderson from Wade Trim, Inc

Discussion of the Council to move ahead with updating the Zoning Ordinance entry into a contract with Wade Trim, Inc. have Linda Anderson meet with the Planning Commission and the Village Council tabled until the October meeting

Reviewed correspondence from Fund Balance Software.

Adjourned at 9:00 p m.

Minutes taken by Nancy Thrush, Village Clerk

RECEIVED
10-17-00

#101700

FROST TOWNSHIP
9031 N CLARE AVE
HARRISON MICH 48625

10-17-2000

RESOLUTION OF INTENT:

RESOLUTION MADE BY DAVIS / ON THAT
FROST TOWNSHIP BOARD APPROVE DISAPPROVE THE
FINAL DRAFT, CLARE COUNTY WASTE MANAGEMENT PLAN
UPDATE, DATED JUN 20, 2000.

ROLL CALL VOTE:

| | |
|--------|------------|
| O HARE | <u>yes</u> |
| BEEMER | <u>no</u> |
| COON | <u>yes</u> |
| BECKER | <u>no</u> |
| DAVIS | <u>yes</u> |

E. DAVIS CLERK

ED

RECEIVED
10-20-00

HATTON TOWNSHIP

5601 E. Browns Road, Clare MI 48617

October 19, 2000

Clare County Board of Commissioners
County Building
225 W Main Street
Harrison MI 48625

RE: Clare County Solid Waste Management Plan Update

Dear Commissioners,

At the Regularly scheduled Board Meeting of Hatton Township, Tuesday, October 17, 2000, the Hatton Township Board voted, in a Roll Call Vote, not to accept nor approve the Clare County Solid Waste Management Plan Update. The vote was a unanimous rejection of the proposed Plan in its current form.

If you have questions, feel free to contact us.

Sincerely,



Janet Trietch
Hatton Township Clerk

c: Twsp Bd

RECEIVED
10-23-00

REGULAR MEETING
Redding Township Board
October 18, 2000

Meeting was called to order by Supervisor Thomas Krchmar at 7:00 P.M. Followed by the Pledge of Allegiance.

Special Guest: Jalae Ulicki, Candidate for Clare County Prosecutor, William Morrow, Candidate for Clare County Drain Commissioner, Kim Kuebler, Candidate for County Commissioner, Jim Gelios, Candidate for Clare County Sheroff, Jim Neff, Gypsy Moth Suppression Coordinator, Jennifer Elkins, Clare County Commissioner.

Guest:(31)William and Virginia Hildebrandt, Russ Bremmer, Arlin Parks, Linn and Carolyn Pruden, Art and Carol Erbisch, Bill Morrow, N.J.Morrow, Larry and Sharon Heinz, Walt Wonderly, Carolyn Parks, Pat Brooks, Stan and Sue Grabowski, Sharon Jackson, Jalae Ulicki, Marylou Gonyea, Victor and Anna Krchmar, Scott Fouest, Jim Gelios, Kim Kuebler, Kendal Kuebler, Lillian Shakule, Virginia Campbell, Jennifer Elkins, Bill West, Jim Neff.

Jalae Ulicki, Candidate for Clare County Prosecutor spoke on her experience in the field of law and her special interests are such as the prevention program for youths, Jalae has worked as an assistant to the prosecutor and is teaching at our local college.

William Morrow, candidate for Clare County Drain Commissioner, he spoke on his experience as assistance with the current Drain Commissioner on various projects including county drains, and is the v.p. and operations manager of Morrows Sand and Gravel.

Kim Kuebler, candidate for Clare County Commissioner, spoke on experience and is now the health care provider at the Clare County Jail, shes worked on the Govenors Advisory Commission, and is a patient advocate.

Jim Gelios, candidate for Clare County Sheriff, spoke on his experience in Law Enforcement, and said with our support, he will be there to serve the public with hands-on, open door policies.

Jennifer Elkins, Clare County Commissioner, Spoke of her many years on different committees and as a full time Commissioner.

Minutes to the September 20,200 meeting were read. Motion to accept minutes as read was made by Trustee Sandy Mann and seconded by Treasurer Kim Krchmar. Motion carried.

The Treasurers report was given and a motion was made to accept the report as given was made by Trustee Marion Pruden and seconded by Clerk Phyllis West. Motion carried.

Motion to pay bills 2573 thru 2596 totaling \$7,399.60 was made by Trustee Sandy Mann and seconded by Treasurer Kim Krchmar. Motion carried.

The Clerk read the correspondence.

Committee reports: One funeral dinner was served for the family of John Foster.

Unfinished Business: The Supervisor reported that Nosedá Const. will start replacing windows in the next two weeks, the upstairs entry windows will not be covered for glass breakage but the downstairs windows will be.

A discussion was held on the Gypsy Moth billing with questions and answers as to why some people were being billed and had not gotten sprayed and why the cost was so high. After a lengthy discussion Jennifer Elkins reported that between the Commissioners and Jim Neff they would try to come to a solution and report back to the Supervisor.

New Business: A vote was taken to accept the Clare County Solid Waste Management Plan Update, Supervisor Krchmar-yes, Clerk West-yes, Treasurer Krchmar-yes, Trustee Pruden-yes, Trustee Mann-yes,

Supervisor Thomas Krchmar reported that the applications were available for the Contractual Work to be filled in November.

A motion was made by Trustee Sandy Mann and seconded by Treasurer Kim Krchmar to vote in opposition to Proposal 002 to amend the Michigan Constitution. Motion carried.

Arlan Parks asked if the board had considered the possibility of having Roll-Offs spread out over a longer period of time and the board responded that the public was so used to the schedule that at this time we would keep it the same.

The subject of propane usage was discussed and the amount of propane was thought to be more used than should be, Supervisor Tomas Krchmar will contact Energetics to have a pressure check done for any leaks.

Jennifer Elkins was asked about the Blight situation and she explained the program.

Supervisor Thomas Krchmar reported that the billing for road brining had been cleared up and we would remain within the budget.

There being no further business to come before the board a motion to adjourn was made by Trustee Sandy Mann and seconded by Trustee Marion Pruden. Motion carried.

Meeting adjourned at 8:55 P.M.

Phyllis West
Phyllis West

Redding Township Clerk

RECEIVED
10-27-00

SUMMERFIELD TOWNSHIP, CLARE COUNTY
OCTOBER 24, 2000

WE, THE BOARD OF SUMMERFIELD TOWNSHIP has approved THE FINAL DRAFT of the Clare County Solid Waste Management Plan Update.

During the Township Meeting THE BOARD VOTED TO APPROVE The Final Draft with a roll call vote of 5 to 0.

J. Carol Whitcomb aye
J. Carol Whitcomb—Supervisor

Dianne Richardson—Clerk aye
Dianne Richardson—Clerk

Minnie Bingley aye
Minnie Bingley—Treasurer

Sherrie Schmidt aye
Sherrie Schmidt—Trustee

Clifford D. Lozier aye
Clifford Lozier—Trustee

14

RESOLUTION 2000-146

A RESOLUTION OF THE CLARE CITY COMMISSION ENDORSING THE CLARE COUNTY SOLID WASTE MANAGEMENT PLAN.

WHEREAS, The Clare County Solid Waste Committee has updated the Clare County Solid Waste Management Plan; and

WHEREAS, said Plan has been forwarded to the Clare City Commission for review; and

WHEREAS, the Clare City Commission has reviewed the changes proposed to the existing Plan, said changes being incorporated in the updated Clare County Solid Waste Management Plan; and

WHEREAS, the Clare City Commission concurs with said changes proposed by the Clare County Solid Waste Planning Committee.

NOW THEREFORE BE IT RESOLVED that the City Commission of the City of Clare hereby concurs with the five major changes proposed by the Clare County Solid Waste Committee and hereby endorses the Clare County Solid Waste Management Plan Update dated the 20th day of June 2000.

ALL RESOLUTIONS AND PARTS OF RESOLUTIONS INsofar AS THEY CONFLICT WITH THE PROVISIONS OF THIS RESOLUTION BE AND THE SAME ARE HEREBY RESCINDED.

The Resolution was introduced by Commissioner Jim Allen and supported by Commissioner Tim Jelenek. The Resolution declared adopted by the following roll call vote:

YEAS: Commissioners Barb Allen, John Punches, Tim Jelenek, Polly Collom, and Jim Allen

NAYS: None

ABSENT: None

Resolution approved for adoption on this 6th day of November 2000.

Kimberly K. Smith
Kimberly K. Smith, Deputy Clerk

Office of Hayes Township Clerk

P.O. Box 310 • 2051 E. Townline Lake Rd. • Harrison, Michigan 48625

RECEIVED
11-13-00
12

(517) 539-7128

Toll # 888-725-6218

FAX (517) 539-7129

November 10, 2000

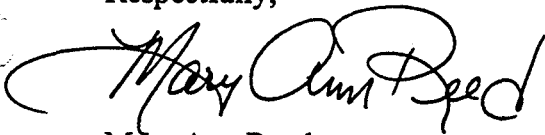
Lynn Grim, Clare County Administrator
PO Box 438
Harrison, MI 48625-0438

RE: Clare County Solid Waste Management Plan, dated June 20, 2000

Dear Mrs. Grim,

At a Special Meeting of the Hayes Township Board held at 9:00 AM on Wednesday, November 08, 2000, Hayes Township approved the above referenced Clare County Solid Waste Management Plan. The vote was as follows: Hale, Yes; Reed, Yes; Litke, Yes; Wilson, Yes; Dancer, No.

Respectfully,



Mary Ann Reed
Hayes Township Clerk

THE REGULAR BOARD MEETING OF THE FRANKLIN TOWNSHIP BOARD
HELD OCTOBER 19, 2000

BOARD MEMBERS PRESENT: Supervisor Ecklin, Clerk Hopkins, Treasurer Matthews, Trustees Riske and Ecklin.

VISITORS PRESENT: Chris Hookins, Mary Pergl, Constable, Ed Ens, Commissioner 5th. District, Dave Reinco, Jalae Ulicki, Candidate for Prosecutor, William Morrow, Candidate for Drain Commissioner, Mickey Dubey, Candidate for 5th. District Commissioner and Bob Dubey.

MEETING CALLED TO ORDER: 7:30 P.M.

Clerks minutes: The minutes of the September Board Meeting were read as there was no corrections, a Motion by Riske to accept minutes as read, support by Ecklin. Motion Carried.

TREASURERS REPORT: Received Liquor Funds, there was \$8.27 in Fund. Bill for Meredith Grade Road was received will pay in December. Not much going on. A motion by Ecklin and supported by Riske to accept Treasurer report as read, Motion Carried.

OLD BUSINESS: A motion by Riske and supported by Ecklin to send in the Assessor renewal to the State of Mich. Motion Carried. The two new windows are in for the front of the Hall, also new blinds.

NEW BUSINESS: Mary Pergl will be Constable until November 20, 2000, her last duty will be turned on November 16th. November Board Meeting. what money is left over in Liquid Fund will be then turned over to the Sheriff's Department. A letter notifying the Liquor Control will be sent out. We had 3 Candidates for for Office. Jalae Ulicki talked to us about what she would do if she got the office of Prosecutor, she is a life long resident of Clare County, Bill Morrow who is running for Drain Commissioner, Mickey Dubey also told what she would if she became Commissioner. Our present Commissioner Ed Ens is also running for 5th. District Commissioner as a write-in candidate, if he gets elected he would continue to come to the Townships for there in-put. Commissioner Ens brought us up to date about happenings at the Commission meetings.

A motion by Matthews to accept the Solid Waste Plan sent to us by the County, supported by Ecklin. Motion Carried. The Franklin Township Board Members voted as follows: Supervisor Ecklin-yea-Clerk Hopkins-yea-Treas. Matthews-yea-Trustees Ecklin and Riske-Yeas. As there was no other business, a Motion by Ecklin to pay bills, supported by Riske. Motion Carried.

BILLS AS FOLLOWS:

| | |
|--|----------|
| CK.-#2174- Postmaster--postage for Clerk----- | \$ 66.00 |
| CK.-#2175-Consumers Energy---elec. -town hall----- | 18.75 |
| CK.-#2176-Michcon-heat-town hall--heat-fire hall----- | 42.39 |
| CK.-#2177-Judy Tressler--Brushhogging fire hall----- | 85.00 |
| CK.-#2178-Norman Duncan--weed trimming-fire hall----- | 10.00 |
| CK.-#2179-Jacqueline Ecklin-Cleaning town hall-10/19----- | 60.00 |
| CK.-#2180-Harrison Do It Center--two windows for town hall----- | 538.00 |
| CK.-#2181-Ken Shaydik-Labor-installing 2 windows at town hall----- | 200.00 |
| CK.-#2182-Clare County Cleaver-registration notice----- | 9.00 |
| CK.-#2183-Richard Ecklin-Super. wages-Assessor wages-Oct.-Clare Co.-- | 1248.56 |
| (MTA 10/16-SWT-FWT-medicare) | |
| CK.-#2184--Jenette Hopkins-Clerks wages-Clare Co. MTA-postage-Fly---- | 607.99 |
| (spray-town hall-mileage 10/16-SWT-FWT) | |
| CK.-#2185-Lois Matthews-Treasurer wages-Clare Co.-MTA-mileage-SWT-FWT- | 822.23 |
| CK.-#2186-Marlene Riske-Trustee wages-Oct.-Clare Co.MTA-SWT----- | 129.29 |
| CK.-#2187-Elaine Ecklin-Trustee wages-Clare Co. MTA-refreshments MTA-- | 185.75 |
| (10/16-mileage--SWT) | |
| #2188-Mary Pergl-Constable wages-Oct.-SWT-medicare----- | 94.18 |
| #2189-Chemical Bank-tax deposit-1st. mo.-4th. quarter----- | 351.41 |

| | |
|--|--------------------|
| CK.-#2191-STATE OF MICHIGAN-Assessor's renewal-Richard Ecklin----- | 50.00 |
| CK.-#2192-Ameritech-phone- town hall-phone supervisor----- | 43.67 |
| CK.-#2193-Consumers Energy--street lights----- | 45.42 |
| | <u>\$ 4,467.64</u> |

As there was no other business to discusse, a Motion by Ecklin and supported by Matthews to adjourn. Motion Carried. Meeting adjourned at 10:00 p.m.

RESPECTFULLY SUBMITTED:

CLERK

SUPERVISOR

Arthur Township

RECEIVED
NOV 21 2000

Clare County

November 20, 2000

TO: Clare County Board of Commissioners

FROM: Norma Hall, Arthur Township Clerk

SUBJECT: Clare County Solid Waste Management Plan

Please find enclosed the unapproved minutes of our Township meeting November 6, 2000, when we approved of the Clare County Solid Waste Management Plan.

Norma Hall

James Stange - Supervisor, 11670 E. Gladwin Rd., Gladwin, MI 48624
Norma Hall - Clerk, 2500 S. Hoover, Gladwin, MI 48624
Marylou Walker - Treasurer, 10032 Cedar, Gladwin, MI 48624
Erna Kleinhardt - Trustee, 6641 Ashard, Clare, MI 48617
Lamar Gunden - Trustee, 7644 Poplar, Clare, MI 48617

ARTHUR TOWNSHIP IS A "ZONED COMMUNITY"

*unapproved minutes
James Hall Clerk*

ARTHUR TOWNSHIP BOARD MEETING
ARTHUR TOWNSHIP HALL
MONDAY NOVEMBER 6, 2000 8:00 P.M.

Meeting called to order at 8:00 p.m. by James Stange, Supervisor with the Pledge of Allegiance. Roll call Stange, Kleinhardt, Gunden, Walker & Hall, all board members present. In the absent of County Road Commission Stange would like recorded that it cost \$5.75 per yard for gravel for Bailey Lake Ave. per Arden Shell. The Road Commission quoted a price of \$8.00 per yard. Ed Ensz County Commissioner spoke before the board. Minutes of October 2, 2000, presented minutes will stand as presented. Treasurer's report presented \$12,700.59 in checking account, Isabella Bank of Clare "CD" \$113,342.09, Bank one Houghton Lake "CD" \$105,000.00. Grand total \$231,042.68. Treasurer's report will stand as presented. Bills presented motion by Gunden seconded by pay all bills, roll call, Stange, Kleinhardt, Gunden Walker & Hall all ayes (5) naves (0), carried. Check #4463 thru #4484 for a total of \$3223.74.

A discussion in regards to G.Gardner zoning violation. A motion by Stange seconded by Hall to pursue Gardner zoning violation, roll call vote Walker, Kleinhardt, Gunden, Stange & Hall all ayes (5), naves (0), carried. A discussion in regards to R.Thomas zoning violation. A motion by Walker seconded by Stange to pursue Thomas zoning violation, roll call vote Kleinhardt, Gunden, Hall, Stange & Walker all ayes (5), naves (0), carried. After a discussion on the Clare County Solid Waste Management Plan a motion by Stange seconded by Kleinhardt to approve the Clare County Solid Waste Management Plan, roll call Walker, Gunden, Hall, Stange & Kleinhardt all ayes (5) naves (0), carried. A discussion on the proposed amendments to the Zoning Ordinance, a recommendation was made by Hall that the Planning Commission review the letter and changes in the proposed amendments, from the lawyer.

Meeting adjourned 10:00 p.m.

Clare County
Solid Waste Management Plan Update

Final Draft
June 20, 2000

Submitted to the
Clare County Board of Commissioners
For Review

Prepared by the
Clare County Solid Waste Management Planning Committee

Clare County Solid Waste Management Plan Update

PLAN FORMAT

FOR PREPARING

COUNTY SOLID WASTE MANAGEMENT PLANS

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



**John Engler, Governor
Russell J. Harding, Director**

**Michigan Department of Environmental Quality
Waste Management Division**

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

EQP 5210 (8-97)

1997 PLAN UPDATE COVER PAGE

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

DATE SUBMITTED TO THE DEQ:

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

First (public review) draft submitted to DEQ in July 1999

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

Municipality

Original Planning County

New Planning County

None

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Clare County Administrator

CONTACT PERSON Lynn Grim

ADDRESS:

Clare County Administrator

225 West Main Street

Harrison MI 48625

PHONE:

517-539-2510

FAX: 517-539-2588

E-MAIL:

CENTRAL REPOSITORY LOCATION(S): Clare County Administrator's Office at the address given above.

CLARE COUNTY SOLID WASTE MANAGEMENT PLAN – 2000

TABLE OF CONTENTS

| | |
|---|--------|
| EXECUTIVE SUMMARY | II |
| OVERALL VIEW OF THE COUNTY..... | II |
| CONCLUSIONS..... | III |
| SELECTED ALTERNATIVES..... | IV |
| INTRODUCTION..... | I-1 |
| GOALS AND OBJECTIVES | I-1 |
| DATA BASE | II-1 |
| FACILITY DESCRIPTIONS..... | II-4 |
| SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE | II-5 |
| EVALUATION OF DEFICIENCIES AND PROBLEMS..... | II-8 |
| DEMOGRAPHICS..... | II-9 |
| LAND DEVELOPMENT | II-13 |
| SOLID WASTE MANAGEMENT ALTERNATIVES..... | II-14 |
| THE SELECTED SOLID WASTE MANAGEMENT SYSTEM | III-1 |
| IMPORT AUTHORIZATION | III-3 |
| EXPORT AUTHORIZATION..... | III-6 |
| SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION: | III-12 |
| RESOURCE CONSERVATION EFFORTS: | III-13 |

| | |
|--|---------------|
| WASTE REDUCTION, RECYCLING AND COMPOSTING PROGRAMS | III-1 |
| OVERVIEW OF RESOURCE RECOVERY PROGRAMS | III-15 |
| RECYCLING AND COMPOSTING | III-17 |
| IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES..... | III-24 |
| PROJECTED DIVERSION RATES..... | III-25 |
| MARKET AVAILABILITY FOR COLLECTED MATERIALS..... | III-25 |
| EDUCATIONAL AND INFORMATIONAL PROGRAMS..... | III-26 |
| TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION..... | III-27 |
| SITING REVIEW PROCEDURES..... | III-28 |
| AUTHORIZED DISPOSAL AREA TYPES | III-28 |
| SITING CRITERIA AND PROCESS | III-28 |
| SOLID WASTE MANAGEMENT COMPONENTS..... | III-29 |
| EXISTING MANAGEMENT CAPABILITIES..... | III-30 |
| IDENTIFICATION OF RESPONSIBLE PARTIES..... | III-3 |
| LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL | III-34 |
| CAPACITY CERTIFICATIONS | III-36 |

APPENDICES

| | |
|--|------------|
| APPENDIX A: EVALUATION OF SELECTED SYSTEM..... | A-1 |
| EVALUATION OF RESOURCE RECOVERY PROGRAMS..... | A-1 |
| DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS..... | A-2 |
| EQUIPMENT SELECTION | A-3 |
| SITE AVAILABILITY AND SELECTION..... | A-3 |
| COMPOSTING OPERATING PARAMETERS | A-4 |
| COORDINATION EFFORTS | A-5 |
| EVALUATION SUMMARY OF THE SELECTED SYSTEM..... | A-7 |
| ADVANTAGES AND DISADVANTAGES OF THE SELECTED SYSTEM..... | A |

| | |
|---|------------|
| APPENDIX B: NON-SELECTED SYSTEMS | B-1 |
|---|------------|

| | |
|--|------------|
| ALTERNATIVE B: ENHANCED MATERIALS RECOVERY..... | B-2 |
|--|------------|

| | |
|--|------------|
| ALTERNATIVE C: REGIONAL SOLID WASTE MANAGEMENT SYSTEM | B-5 |
|--|------------|

| | |
|---|------------|
| APPENDIX C: PUBLIC PARTICIPATION AND APPROVAL..... | C-1 |
|---|------------|

| | |
|--|------------|
| PUBLIC INVOLVEMENT PROCESS..... | C-2 |
|--|------------|

| | |
|-----------------------------|------------|
| PLAN APPROVALS | C-2 |
|-----------------------------|------------|

| | |
|--|------------|
| PLANNING COMMITTEE APPOINTMENT PROCEDURE..... | C-7 |
|--|------------|

| | |
|---|------------|
| APPENDIX D: PLAN IMPLEMENTATION STRATEGY | D-1 |
|---|------------|

| | |
|--------------------------|------------|
| RESOLUTIONS | D-2 |
|--------------------------|------------|

| | |
|------------------------------|------------|
| LISTED CAPACITY | D-3 |
|------------------------------|------------|

| | |
|------------------|------------|
| MAPS..... | D-4 |
|------------------|------------|

| | |
|-------------------------------------|------------|
| INTERCOUNTY AGREEMENTS | D-5 |
|-------------------------------------|------------|

| | |
|---------------------------------|------------|
| SPECIAL CONDITIONS | D-6 |
|---------------------------------|------------|

| | |
|--|------------|
| CLARE COUNTY SOLID WASTE PLANNING COMMITTEE MEETING MINUTES | D-7 |
|--|------------|

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

| Township or Municipality Name | Population | % Land Use | | % of Economic Base* | | | | |
|-------------------------------|------------|------------|-------|-------------------------------|-----|------|------|-------|
| | | Rural | Urban | Ag | For | Ind | Com | Other |
| Arthur Twp. | 621 | 99.0 | 1.0 | 48.3 | 0.0 | 1.1 | 0.9 | 49.6 |
| Franklin Twp. | 686 | 98.0 | 2.0 | 1.6 | 0.0 | 0.0 | 1.2 | 97.2 |
| Freeman Twp. | 824 | 99.0 | 1.0 | 4.6 | 0.0 | 0.0 | 0.4 | 94.9 |
| Frost Twp. | 944 | 96.0 | 4.0 | 0.5 | 0.0 | 0.0 | 3.9 | 95.6 |
| Garfield Twp. | 1,688 | 97.0 | 3.0 | 0.7 | 0.0 | 0.0 | 2.2 | 97.1 |
| Grant Twp. | 3,011 | 89.0 | 11.0 | 11.1 | 0.0 | 0.0 | 6.2 | 82.6 |
| Greenwood Twp. | 821 | 99.0 | 1.0 | 11.4 | 0.0 | 0.1 | 0.5 | 88.0 |
| Hamilton Twp. | 1,866 | 94.0 | 6.0 | 5.2 | 0.0 | 0.3 | 1.9 | 92.6 |
| Hatton Twp. | 770 | 96.0 | 4.0 | 11.8 | 0.0 | 0.0 | 7.1 | 81.1 |
| Hayes Twp. | 4,219 | 85.0 | 15.0 | 0.8 | 0.0 | 0.0 | 7.2 | 92.0 |
| Lincoln Twp. | 1,440 | 97.0 | 3.0 | <0.1 | 0.0 | 4.0 | 1.1 | 94.9 |
| Redding Twp. | 512 | 99.0 | 1.0 | 6.1 | 0.0 | 0.0 | 0.6 | 93.3 |
| Sheridan Twp. | 1,201 | 99.0 | 1.0 | 39.3 | 0.0 | 0.0 | 0.0 | 60.7 |
| Summerfield Twp. | 361 | 99.0 | 1.0 | 0.9 | 0.0 | 0.0 | 2.0 | 97.1 |
| Surrey Twp. | 2,600 | 93.0 | 7.0 | 0.6 | 0.0 | 3.6 | 11.6 | 84.2 |
| Winterfield Twp. | 424 | 99.0 | 1.0 | 15.7 | 0.0 | 11.3 | 0.0 | 73.0 |
| Village of Farwell | 975 | 2.0 | 98.0 | Included with Surrey Township | | | | |
| Clare City | 3,488 | 2.0 | 98.0 | 0.0 | 0.0 | 2.8 | 44.6 | 52.6 |
| Harrison City | 2,061 | 2.0 | 98.0 | 0.1 | 0.0 | 3.4 | 23.7 | 72.8 |
| CLARE COUNTY | 28,679 | 4.0 | 96.0 | 5.62 | 0.0 | 1.3 | 8.5 | 84.5 |

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

CONCLUSIONS

Clare County's current solid waste management system is functioning well, and it provides an effective means for managing the solid waste that is generated in the county. Solid waste collection and transportation services are mainly provided by the private sector and are available to all residents, businesses, and industries in the county. Solid waste that is generated in Clare County is transported to the Northern Oaks Recycling and Disposal Facility in Hayes Township for final disposal. This landfill has sufficient capacity to provide for Clare County's solid waste disposal needs for the next 10 years and beyond.

The recovery of recyclable materials from the solid waste stream presently takes place in the county through several mechanisms. Drop-off sites for recyclable materials are available at transfer station sites in Hamilton, Summerfield, and Surrey Townships. Curbside collection of recyclable materials is provided to households in the City of Clare through a municipal contract with private industry. Corrugated paper (cardboard) is collected from businesses throughout the county by the private sector. Finally, recyclable materials may be taken directly to the Northern Oaks facility by residents and businesspersons. Used motor oil is collected in Clare at the City's Department of Public Works.

Composting of yard wastes and other organic materials also takes place in the county, mainly through home composting efforts by residents, and some collection of yard waste by the private solid waste haulers and municipalities. The City of Harrison, and Garfield, Surrey and Lincoln Townships currently provide municipal composting sites. Curbside collection of yard waste is furnished to residents in Lincoln Township and the City of Clare.

It is the conclusion of this planning process that the current solid waste management system is best suited to meet Clare County's needs for solid waste collection, transportation, materials recovery, and disposal. Consequently, the current system has been selected to remain in place for the time period covered by this plan update.

SELECTED ALTERNATIVES

Clare County's selected alternative is to retain the current management system. An overview of the major components of this system follows.

1. *Collection and Transportation of Solid Waste.* The existing collection and transportation system will remain in place. Solid waste collection services will continue to be provided to all county residents, businesses, and industries. These services will continue to mainly be provided by private enterprise through a system that utilizes both municipal contracts and individual arrangements (subscription service) with solid waste haulers that are made by residents, businesses, and industries. However, it is not this plan's intent to preclude involvement by municipalities from providing solid waste collection services to residents within their respective jurisdictions. The plan also encourages local units of government to consider the benefits of arranging for solid waste services through municipal contracts, although such arrangements are certainly not mandated.
2. *Disposal of Solid Waste.* The Northern Oaks Recycling and Disposal Facility will continue to operate as a licensed Type II landfill, and it will continue to meet Clare County's solid waste disposal needs for the planning period.
3. *Recycling.* Under the selected alternative, the Northern Oaks facility will continue to accept specified recyclable materials. All local governments are encouraged to provide recycling opportunities for their residents, either through arrangements for drop-off sites or the provision of curbside collection for recyclables. Presently, only the City of Clare provides curbside recycling for its residents under contract with the private sector. Recycling services are expected to continue to be mainly provided by private enterprise. However, this does not preclude other entities -- such as environmental organizations, private non-profit groups, and others -- from becoming involved in recycling activities. The plan encourages the involvement of such groups in materials recovery efforts.
4. *Composting.* The plan recommends that the Northern Oaks facility will continue to accept yards wastes and other suitable materials from county residents for composting. "Backyard" composting by residents will also continue to be encouraged. As previously mentioned, several municipalities now provided composting sites, and these efforts should be continued. All municipalities are encouraged to provide composting opportunities for their residents as needs dictate, either through curbside collection of yard wastes or through local drop-off sites. Again, it is expected that composting services will continue to be furnished by both the private and public sectors. This plan does not intend to limit the ability of any local government unit to establish a composting site and program.
5. *Separation of Household Hazardous Wastes.* Northern Oaks currently sponsors an annual Household Hazardous Waste Collection Day on a voluntary basis for the benefit of County residents. The plan advocates the continuation of this program. Also, the plan calls for the County to work in partnership with the private sector to explore ways to expand and improve this program, such as ways to increase the frequency and convenience of collection (such as holding collections on weekends), and to promote the program to residents.

6. *Resource Conservation and Waste Reduction.* Resource conservation and waste reduction will be encouraged through the voluntary efforts of residents, businesses, and industries. The County should expand public information and education in this area.
7. *Public Information and Education.* Current educational efforts on solid waste management in Clare County are limited. Resource recovery education activities are conducted as part of various local school curricula. The private solid waste industry also conducts informational programs for local schools and the general public upon request. As stated above, the County should expand public information and education on solid waste management topics, specifically concerning waste reduction and resource recovery.

INTRODUCTION

GOALS AND OBJECTIVES

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

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

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

Goal 1: Develop an efficient, environmentally sound, and cost-effective solid waste management system that is capable of meeting the County's diverse needs for the next 10 years.

Objective 1a: Assign within the County the responsibilities for carrying out the various actions required for implementing the adopted Solid Waste Management Plan.

Objective 1b: Encourage new and innovative materials and energy recovery technologies.

Goal 2: Encourage inter-county cooperation in the development of a solid waste management system while maintaining adequate capacity for Clare County's solid waste.

Objective 2a: Ensure adequate landfill space to meet the County's solid waste disposal needs.

Objective 2b: Enter into formal inter-county agreements with other counties as identified by the Solid Waste Management Planning Committee and approved by the Clare County Board of Commissioners.

Objective 2c: Enter into inter-county agreements with other counties to assure disposal capacity should the Northern Oaks Recycling and Disposal Facility fail or be shut down.

INTRODUCTION

Goal 3: Encourage continued participation by the private sector in all solid waste management activities.

Objective 3a: Ensure adequate landfill space to meet the County's solid waste disposal needs.

Objective 3b: Encourage and support the expanded use of private/non-profit organizations for operating and coordinating formal efforts in recycling and resource recovery.

Goal 4: Develop an integrated solid waste management system that includes waste reduction, source separation, recycling, composting, and landfilling as its major components.

Objective 4a: Develop and implement educational programs for waste reduction, source separation, recycling, and integrated solid waste management for County residents, businesses, industries, and institutions.

Objective 4b: Encourage the expanded use of all feasible non-landfill alternatives for solid waste management that are environmentally and economically sound.

Goal 5: Promote residential, governmental, institutional, commercial, and industrial recycling capabilities.

Goal 6: Encourage the creation and expansion of markets for recycled materials; the use of recyclable and recycled materials by government, business, industry, and the public; and encourage purchasing policies that specify recycled materials.

Objective 6a: Review local government and public institution procurement policies and revise them as necessary to further encourage the use of recycled and recyclable materials.

Objective 6b: Encourage and support appropriate local, state, and federal legislation to provide incentives for waste reduction, source separation, and recycling.

☐ Note: Additional goals and objectives are listed on attached pages.

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.

Solid waste generation estimates for Clare County were obtained from the most recent DEQ "Report of Solid Waste Landfilled in Michigan" for the period of October 1, 1997 through September 30, 1998 and from the records kept by the Northern Oaks Recycling & Disposal Facility. The report on volumes landfilled showed that 86,121 cubic yards of solid waste generated in Clare County were disposed of at licensed Type II landfills. No Type III solid waste disposal was reported. The facility presently used for primary disposal is the Northern Oaks Recycling and Disposal Facility (RDF) located in Clare County. A small quantity of solid waste (160 cubic yards) was also disposed of in Bay County at the Whitefeather Landfill during the reporting period that ended September 30, 1998.

Data on recycling collected by the private solid waste industry show that approximately 102.75 tons of material were collected and marketed during 1998. As a rough estimate, this quantity represents approximately 308 cubic yards of material that would have otherwise been placed in landfills. Also, 2,588 cubic yards of yard wastes were collected and composted during 1998. This represents another 2,588 cubic yards of material that was diverted from landfills.

The current solid waste collection and disposal system appears to be working well, and no major problems are anticipated. The Planning Committee is not aware of any special wastes generated in the county that create any unique problems for collection, transportation, or disposal. Landfill capacity in the county is adequate and provides Clare County with more than ten years of capacity.

DATA BASE

CLARE COUNTY

TOTAL QUANTITY OF SOLID WASTE GENERATED

88,331 ☐ Tons or ☒ Cubic Yards in one year

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL

86,121 ☐ Tons or ☒ Cubic Yards in one year

DATA BASE

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

The Northern Oaks Recycling and Disposal Facility, a licensed Type II landfill, is the only disposal facility located in Clare County. This facility will serve Clare County's solid waste disposal needs for the planning period. Other disposal facilities that the county may use would be identified in the "Selected System" portion of this plan.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Northern Oaks Recycling and Disposal Facility

County: Clare Location: Town: 19N Range: 4W Section(s): 32

Map identifying location included in Attachment Section: ☒ Yes ☐ No

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

☐ Public ☒ Private Owner: Waste Management Inc.

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, but closure
☐ pending

Waste Types Received (check all that apply)

☒ residential
☒ commercial
☒ industrial
☒ construction & demolition
☒ contaminated soils
☒ special wastes *
☐ other: _____

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

Site Size:

Total area of facility property: 480 acres
Total area sited for use: 76 acres
Total area permitted: 76 acres
Operating: 19 acres
Not excavated: 57 acres

Current capacity: 17,014,000 ☐ tons or ☒ yds³
Estimated lifetime: 37.6 years
Estimated days open per year: 260 days
Estimated yearly disposal volume: 409,000 ☐ tons or ☒ yds³

(if applicable)

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

*Capacity and estimated lifetime as of 10/31/99.

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:

The collection and transportation of solid waste that is generated at residences, businesses, and industries in Clare County is accomplished almost exclusively by the private solid waste industry. One exception is the Village of Farwell Department of Public Works (DPW), which provides waste collection services in the Village.

Private solid waste collection firms that operate in Clare County include Waste Management, Lincoln Sanitation, and Dent Refuse.

In the City of Clare, solid waste collection services are provided under a municipal contract with a private firm. Clare is the only local unit that has curbside collection of recyclable materials from residences.

In the rest of the county, a "free market" system that includes several combinations of arrangements for solid waste collection services exists. This includes municipal contracts for residential curbside service, arrangements for drop-off (transfer station) sites to serve residents, and individual arrangements for service through subscriptions with private haulers.

Current information on solid waste collection services in Clare County is summarized in the following table. A key to the information in the table is also attached.

CLARE COUNTY – SOLID WASTE COLLECTION & TRANSPORTATION SYSTEM INFORMATION

| Community | 1 Service Provider | 2 Service Type | | 3 Payment Method | 4 Additional Services | 5 Transfer Station | | 6 Landfill |
|------------------|--------------------------|-------------------|----------------------|------------------------|-----------------------------|--------------------------|-----------|---------------|
| | | Curbside | Drop- off Site | | | Type A | Type B | |
| TOWNSHIPS | | | | | | | | |
| Arthur | WMI | X | X | I GF | | | X | Northern Oaks |
| Franklin | WMI | X | | I | | | | Northern Oaks |
| Freeman | Lincoln WMI Dent | X | X | I GF | | | X | Northern Oaks |
| Frost | WMI | X | X | | | | X | Northern Oaks |
| Garfield | WMI Dent | X | X | | | | X | Northern Oaks |
| Grant | WMI | X | | S | See Note 1 | | | Northern Oaks |
| Greenwood | WMI | X | | S | | | | Northern Oaks |
| Hamilton | WMI | X | X | GF | RD (metal) | | X | Northern Oaks |
| Hatton | WMI | X | | I | | | | Northern Oaks |
| Hayes | WMI | X | | GF | RD (metal) | | | Northern Oaks |
| Lincoln | Lincoln | X | | S | YW CS | | | Northern Oaks |
| Redding | WMI | | X | S I | | | X | Northern Oaks |
| Sheridan | WMI | X | | I | | | | Northern Oaks |
| Summerfield | WMI | | X | I S | RD | | X | Northern Oaks |
| Surrey | WMI | X | X | I S | RD CS | | X | Northern Oaks |
| Winterfield | WMI | X | X | I GF | | | X | Northern Oaks |
| VILLAGE | | | | | | | | |
| Farwell | WMI DPW | X | See Note 1 | I GF | See Note 1 | | | Northern Oaks |
| CITIES | | | | | | | | |
| Clare | WMI | X | | I GF | RC YW | | | Northern Oaks |
| Harrison | WMI | X | | GF | | | | Northern Oaks |

KEY TO INFORMATION IN THE TABLE

The following numbers refer to the numbered blocks on the form. Please use the codes and information provided below to fill in the form.

1. **Service Provider.** This entry identifies the firms or other organizations that provides solid waste collection services in the community.

| | |
|---------|------------------------|
| WMI | Waste Management |
| Dent | Dent Refuse |
| Lincoln | Lincoln Sanitation |
| DPW | Village of Farwell DPW |

2. **Service Type.** These columns are marked to indicate whether solid waste is picked up from residences (curbside service) or must be transported to a drop-off site (transfer station or similar arrangement).

3. **Payment Method.** The following codes to indicate the method of payment for services:

| | |
|----|--|
| I | Individuals billed directly for service |
| GF | Services are paid for from the local government's General Fund |
| S | A special fee is levied for trash collection, such as a special assessment |

4. **Additional Services.** The following codes indicate any additional services that are available.

| | |
|----|---|
| RC | Curbside collection of separated recyclable materials from residences is provided. |
| RB | Collection of specified recyclable materials from businesses is provided. |
| RD | Separated recyclable materials may be dropped off at a designated site in the community. |
| YW | Separate collection of yard waste is provided to residences. |
| CS | A site where residents may drop off yard waste for composting is provided in the community. |

5. **Transfer Station.** The columns are marked if a transfer station is located in the community.

Type A transfer stations are generally enclosed facilities where solid waste is mechanically unloaded from commercial collection vehicles. The waste is often compacted for transport to a landfill in large loads.

Type B transfer stations generally consist of roll-off units or "dumpster" containers where residents may directly deposit their garbage. The containers are picked up or emptied by collection vehicles for transport to a landfill.

6. **Landfill.** This entry indicates the landfill where the solid waste generated in the community is taken for final disposal.

Note 1: Residents of Grant Twp. and Farwell are allowed to use the Surrey Twp. transfer station.

EVALUATION OF DEFICIENCIES AND PROBLEMS

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

The Solid Waste Management Planning Committee has identified the following deficiencies in the existing solid waste system:

- 1) Problems with recycling –
 - a) Lack of funding to support recycling efforts
 - b) Incentives, convenience and education are all needed
 - c) End users and markets need to be identified
- 2) Need for the county to hire a solid waste coordinator to develop and implement recycling and solid waste reduction education programs.
- 3) Increased public awareness about backyard and municipal composting is needed.
- 4) Scrap tire problems need to be addressed
- 5) The availability of household hazardous waste collections is limited.
- 6) Disposal of waste in the woods (illegal dumping) and household burning of solid wastes are problems.
- 7) The primary waste hauler and the landfill owner are the same company.

DEMOGRAPHICS

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

From 1990 to 1997, Clare County's population is estimated to have grown by over 16%. This represents an annual growth rate of 2.33%. If this trend continues, the county population will reach 33,000 by 2003 and 37,000 by 2008.

Population estimates for the municipalities within the county are available through 1996. Population growth within the local government units during 1990 through 1996 ranged from 12% to 34%. The greatest population increases were seen in Freeman Township (34.4%), Hamilton Township (22.0%), and the City of Clare. Thirteen other local units of government grew by over 14% during this period.

The county population centers are the Clare/Grant Township, Farwell/Surrey Township, and Harrison/Hayes Township areas. Together, these communities make up over 57% of the total county population. These areas also represent the centers for manufacturing, retail trade, and services within the county. Consequently, these communities are also the county's centers of solid waste generation. The three areas are expected to remain the centers of both population and solid waste generation for the five-year and ten-year planning periods.

Information on recent population trends in Clare County, and projections for both population growth and solid waste generation over the next 10 years, is shown on the attached pages.

Population Trends, 1990 – 1996
Clare County & Municipalities

| Community | 1990 Census | 1996 Estimate | % Change 1990 – 1996 |
|----------------------|------------------------|--------------------------|---------------------------------|
| Arthur Township | 544 | 621 | 14.2% |
| Franklin Township | 600 | 686 | 14.3% |
| Freeman Township | 613 | 824 | 34.4% |
| Frost Township | 826 | 944 | 14.3% |
| Garfield Township | 1,477 | 1,688 | 14.3% |
| Grant Township | 2,636 | 3,011 | 14.2% |
| Greenwood Township | 718 | 821 | 14.3% |
| Hamilton Township | 1,546 | 1,886 | 22.0% |
| Hatton Township | 673 | 770 | 14.4% |
| Hayes Township | 3,811 | 4,219 | 10.7% |
| Lincoln Township | 1,253 | 1,440 | 14.9% |
| Redding Township | 448 | 512 | 14.3% |
| Sheridan Township | 1,051 | 1,201 | 14.3% |
| Summerfield Township | 316 | 361 | 14.2% |
| Surrey Township | 2,370 | 2,669 | 13.9% |
| Winterfield Township | 371 | 424 | 14.3% |
| Farwell Village | 851 | 975 | 14.6% |
| Clare City | 3,013 | 3,475 | 15.3% |
| Harrison City | 1,835 | 2,061 | 12.3% |
| CLARE COUNTY | 24,952 | 28,618 | 14.7% |

Source: U.S. Bureau of the Census, Federal-State Cooperative Program for Population Estimates. Data released by Michigan Information Center, Dept. of Management & Budget, November 18, 1997.

Clare County Solid Waste Generation
Estimated by EPA Waste Generation Factors
Source: Characterization of MSW in the US: 1996 Update, US EPA,
Washington, DC.

Calculations:

1. Waste generation = 4.4 pounds/person/day, 365 days per year.
2. 1997 county population = 29,011 persons X 4.4 lbs. X 365 days = 46,591,666 lbs./year.
3. 46,591,666 lbs./ (2,000 lbs./ton) = 23,295.8 tons/year.
4. Assume 3 cubic yards per ton.
5. 23,295.8 tons X 3 cubic yards/ton = **69,888 cubic yards per year.**

Comparison:

MDEQ Landfill Report shows **70,448** cubic yards of solid waste generated in Clare County that were landfilled. The difference between the waste generation estimate and the quantity landfilled is only 560 cubic yards.

Note: The information on solid waste volumes does not include any source-separated materials that are presently recycled or composted.

CURRENT ANNUAL SOLID WASTE GENERATION & LANDFILL DISPOSAL

| Disposal Facility | Type II Solid Waste | Type III Solid Waste |
|------------------------------|---------------------------|----------------------|
| Northern Oaks RDF (Clare) | 85,961 cubic yards | 0 |
| Whitefeather (Bay) | 160 cubic yards | 0 |
| Total | 86,121 cubic yards | 0 |

Source: "Report of Solid Waste Landfilled in Michigan, October 1, 1997 — September 30, 1998," Michigan Department of Environmental Quality, Waste Management Division, February 4, 1999.

CLARE COUNTY POPULATION TRENDS

| 1990 Census | 1996 Estimate | 1997 Estimate | % Change 1990 — 1997 | Average Change Per Year |
|-------------|---------------|------------------|----------------------------|-------------------------------|
| 24,952 | 28,544 | 29,011 | 16.3% | 2.33% |

Source: Bureau of the Census, U.S. Department of Commerce, Federal-State Cooperative Program for Population Estimates. Released on March 17, 1998.

CLARE COUNTY POPULATION AND SOLID WASTE GENERATION PROJECTIONS

| | 1998 | 2003 | 2008 |
|--|--------------------|--------------------|---------------------|
| County Population | 29,687 | 33,146 | 37,007 |
| Annual Solid Waste Generation | 86,121 cubic yards | 96,633 cubic yards | 108,428 cubic yards |

Projections calculated based on estimated 1997 population of 29,011 and FY 98 solid waste volume of 86,121 cubic yards landfilled. Rate of increase of both population & solid waste landfilled was assumed to be 2.33% per year.

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 cover data for Clare County and its municipalities were tabulated from the Michigan Resource Information System (MIRIS). The major land cover types for the county as a whole are:

| | |
|-------------------------|-----|
| Woodlands | 61% |
| Agriculture & Open Land | 28% |
| Water Bodies & Wetlands | 7% |
| Urban | 4% |

Urban development in the county is concentrated in Grant, Hayes, and Surrey Townships as previously discussed. Agricultural and open land is concentrated in the southern portion of the county in Arthur, Garfield, Grant, and Sheridan Townships. The largest amounts of forested lands are found within Franklin, Freeman, Frost, Lincoln, Redding, and Summerfield Townships. The largest acreages of water bodies and wetlands are located in Freeman and Garfield Townships.

As previously described, the county population centers are the Clare/Grant Township, Farwell/Surrey Township, and Harrison/Hayes Township areas. Together, these communities make up over 57% of the total county population. These areas also represent the centers for manufacturing, retail trade, and services within the county. Consequently, these communities are also the county's centers of solid waste generation. The three areas are expected to remain the centers of both population and solid waste generation for the five-year and ten-year planning periods.

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.

The following alternative systems were discussed and evaluated by the Clare County Solid Waste Management Planning Committee (SWMPC):

Alternative A: Retain the Current Management System

Alternative A represents the "status quo" alternative and is always an option. This assumes the continuation of the current management system (i.e., use of the Northern Oaks RDF) without any major changes. Recycling and composting would be continued as they are currently practiced, without any major expansion efforts.

Advantages:

- ◆ Acceptance of current system
- ◆ New costs would be minimal
- ◆ No new sites or facilities required
- ◆ No major institutional or administrative changes

Disadvantages:

- ◆ Lack of efforts to improve management system or services to public
- ◆ No mechanism to increase materials recovery beyond current levels
- ◆ No mechanisms to increase awareness and involvement by government and citizens.

Alternative B: Existing Landfill with Enhanced Recycling & Composting.

Under this option, use of the present landfill for disposal would be continued. However, attention would focus on the expansion of recycling and composting opportunities within the County.

Under the present system, recycling and composting efforts are primarily being conducted by the private solid waste industry, such as the activities at the Northern Oaks site. Alternative B would call for greater involvement by county and local government in promoting and coordinating materials recovery programs.

Advantages:

- ◆ Increased levels of materials recovery (recycling & composting)
- ◆ Greater public involvement & awareness
- ◆ Conservation of landfill space

DATA BASE

- ◆ Low capital costs — minimal facility requirements

Disadvantages:

- ◆ Some funding required for program establishment & activities
- ◆ Requires change — always some difficulties with acceptance
- ◆ Requires greater coordination efforts

Alternative C: Regional Solid Waste Management System.

This alternative calls for the creation of a regional solid waste management system in cooperation with several surrounding counties. From an institutional standpoint, this option calls for the creation of a formal solid waste management authority or similar entity.

Under this option, the use of the existing, privately-owned landfills within this group of counties would continue. Due to current disposal capacity, this alternative does not call for the development of a new regional landfill. However, the creation of an authority would give the counties greater ability to control the solid waste stream and to direct it to certain facilities, if necessary.

Advantages:

Economies of scale achieved through -

- ◆ Regional collection of recyclable materials
- ◆ Regional marketing of recyclable materials
- ◆ Regional purchasing of recycled products
- ◆ Potential regional processing facilities for mixed waste and composting
- ◆ Regional franchises for solid waste collection and other services

Disadvantages:

- ◆ Political barriers to intergovernmental cooperation
- ◆ Higher costs associated with potential regional processing facilities
- ◆ Difficulties in siting any new solid waste facilities

Evaluation of Alternative Solid Waste Management Plans

The alternatives were evaluated according to the following factors, as specified in Act 451:

Technical Feasibility. Can the alternative be implemented using available technology, or will the needed technology become available in the near future?

Economic Feasibility. How much will it cost to implement the alternative? Is the cost greater than the financial capabilities of public and private entities? How will facility development, operation, and maintenance costs be provided?

Access to Land and Transportation Routes. Does the alternative require the acquisition of land? Would facilities be efficiently located? Will the existing transportation system be adequate, or will

DATA BASE

road improvements be required?

Energy Consumption/Production. Is the alternative energy-efficient for transportation and operation requirements? Would energy be produced in conjunction with any processing or disposal operations? Would any revenue be generated by energy production?

Environmental Impacts. What environmental impacts would result from implementation of the alternative? Would implementation create long-term impacts associated with operation and maintenance of solid waste facilities?

Public Health Effects. Would the alternative create, continue, or mitigate public health hazards associated with improper handling or disposal of solid waste?

Public Acceptability. Is the alternative likely to be accepted by county residents? Will it be politically acceptable to local governments? Will the alternative comply with all applicable laws, especially Act 451?

Evaluation Method

The three alternatives were evaluated through the use of a numerical ranking system. Using this point system, each committee member assigned a numerical score for each of the evaluation factors for each of the three alternatives. The evaluation process was conducted as a group exercise in which each committee member assigned points to the factors according to their individual perspectives. For each evaluation factor, the point values assigned by all the members present were added together to obtain a raw score for each factor. The points assigned for all the evaluation factors were then added to obtain a total score for each alternative plan. This evaluation process was performed for each alternative plan for both the five-year and ten-year planning periods.

Based on the results of the SWMPC's evaluation process, Alternative A, Retain the Current Management System, is the preferred alternative for the five-year period. Alternative B, Enhanced Materials Recovery, is the preferred alternative for the ten-year planning period. Further details on the evaluation process and results may be found in the appendix. Alternative C was rejected by the Planning Committee.

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 also addresses collection processes and transportation needs that provide the most cost effective, efficient service. Proposed disposal area, locations and capacity to accept solid waste are identified as well as program management, funding, and enforcement roles for local agencies. Detailed information on recycling programs, evaluation, and coordination of the Selected System is included in Appendix B. Following is an overall description of the Selected System.

Clare County's selected alternative is to retain the current management system. An overview of the major components of this system follows.

1. Collection and Transportation of Solid Waste. The existing collection and transportation system will remain in place. Solid waste collection services will continue to be provided to all county residents, businesses, and industries. These services will continue to mainly be provided by private enterprise through a system that utilizes both municipal contracts and individual arrangements (subscription service) with solid waste haulers that are made by residents, businesses, and industries. However, it is not this plan's intent to preclude involvement by municipalities from providing solid waste collection services to residents within their respective jurisdictions. The plan also encourages local units of government to consider the benefits of arranging for solid waste services through municipal contracts, although such arrangements are certainly not mandated.
2. Disposal of Solid Waste. The Northern Oaks Recycling and Disposal Facility will continue to operate as a licensed Type II landfill, and it will continue to meet Clare County's solid waste disposal needs for the planning period.
3. Recycling. Under the selected alternative, the Northern Oaks facility will continue to accept specified recyclable materials. All local governments are encouraged to provide recycling opportunities for their residents, either through arrangements for drop-off sites or the provision of curbside collection for recyclables. Presently, only the City of Clare provides curbside recycling for its residents under contract with the private sector. Recycling services are expected to continue to be mainly provided by private enterprise. However, this does not preclude other entities -- such as environmental organizations, private non-profit groups, and others -- from becoming involved in recycling activities. The plan encourages the involvement of such groups in materials recovery efforts.
4. Composting. The plan recommends that the Northern Oaks facility will continue to accept yards wastes and other suitable materials from county residents for composting. "Backyard"

composting by residents will also continue to be encouraged. As previously mentioned, several municipalities now provide composting sites, and these efforts should be continued. All municipalities are encouraged to provide composting opportunities for their residents as needs dictate, either through curbside collection of yard wastes or through local drop-off sites. Again, it is expected that composting services will continue to be furnished by both the private and public sectors. This plan does not intend to limit the ability of any local government unit to establish a composting site and program.

5. Separation of Household Hazardous Wastes. Northern Oaks currently sponsors an annual Household Hazardous Waste Collection Day on a voluntary basis for the benefit of County residents. The plan advocates the continuation of this program. Also, the plan calls for the County to work in partnership with the private sector to explore ways to expand and improve this program, such as ways to increase the frequency and convenience of collection (such as holding collections on weekends), and to promote the program to residents.

6. Resource Conservation and Waste Reduction. Resource conservation and waste reduction will be encouraged through the voluntary efforts of residents, businesses, and industries. The County should expand public information and education in this area.

7. Public Information and Education. Current educational efforts on solid waste management in Clare County are limited. Resource recovery education activities are conducted as part of various local school curricula. The private solid waste industry also conducts informational programs for local schools and the general public upon request. As stated above, the County should expand public information and education on solid waste management topics, specifically concerning waste reduction and resource recovery.

IMPORT AUTHORIZATION

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

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

| IMPORTING COUNTY | EXPORTING COUNTY | FACILITY NAME ¹ | AUTHORIZED QUANTITY DAILY | AUTHORIZED QUANTITY ANNUAL | AUTHORIZED CONDITIONS ² |
|------------------|------------------|----------------------------|---------------------------|----------------------------|------------------------------------|
| Clare County | Alcona | | | | P |
| | Antrim | | | | P |
| | Arenac | | | | P |
| | Bay | | | | P |
| | Charlevoix | | | | P |
| | Crawford | | | | P |
| | Emmett | | | | P |
| | Gladwin | | | | P |
| | Gratiot | | | | P |
| | Iosco | | | | P |
| | Isabella | | | | P |
| | Kalkaska | | | | P |
| | Lake | | | | P |

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

| IMPORTING COUNTY | EXPORTING COUNTY | FACILITY NAME ¹ | AUTHORIZED QUANTITY DAILY | AUTHORIZED QUANTITY ANNUAL | AUTHORIZED CONDITIONS ² |
|---------------------|---------------------|-------------------------------|---------------------------------|----------------------------------|---------------------------------------|
| | Mecosta | | | | P |
| | Missaukee | | | | P |
| | Montcalm | | | | P |
| | Newaygo | | | | P |
| | Ogemaw | | | | P |
| | Osceola | | | | P |
| | Roscommon | | | | P |

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

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

SELECTED SYSTEM

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

**Table 1-B: FUTURE IMPORT VOLUME AUTHORIZATION OF SOLID WASTE
CONTINGENT ON NEW FACILITIES BEING SITED**

| IMPORTING COUNTY | EXPORTING COUNTY | FACILITY NAME ¹ | AUTHORIZED QUANTITY DAILY | AUTHORIZED QUANTITY ANNUAL | AUTHORIZED CONDITIONS ² |
|---------------------|---------------------|-------------------------------|---------------------------------|----------------------------------|---------------------------------------|
| Clare County | None | | | | |
| | | | | | |

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

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

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

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 |
|---------------------|---------------------|-------------------------------|---------------------------------|----------------------------------|---------------------------------------|
| Clare | Bay | | | | P |
| Clare | Crawford | | | | P |
| | | | | | |
| | | | | | |
| | | | | | |

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

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

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

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 |
|---------------------|---------------------|-------------------------------|----------------------------------|-----------------------------------|---------------------------------------|
| Clare | None | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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

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

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

SOLID WASTE DISPOSAL AREAS

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

Type II Landfill:
Northern Oaks RDF

Type A Transfer Facility:
None

Type III Landfill:
None

Type B Transfer Facility:
Arthur Twp

Freeman Twp

Frost Twp

Garfield Twp

Hamilton Twp

Redding Twp

Summerfield Twp

Surrey Twp

Winterfield Twp

Incinerator:
None

Waste-to-Energy Incinerator:
None

Waste Piles:
None

Processing Plant:
None

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 Landfill
 Facility Name: Northern Oaks Recycling & Disposal Facility
 County: Clare Location: Town: 19N Range: 4W Section(s): 32

Map identifying location included in Attachment Section: ☒ Yes ☐ No

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

☐ Public ☒ Private Owner: Waste Management

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

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

Site Size:

| | | |
|-----------------------------------|------------|---|
| Total area of facility property: | 480 | acres |
| Total area sited for use: | 76 | acres |
| Total area permitted: | 76 | acres |
| Operating: | 19 | acres |
| Not excavated: | 57 | acres |
| Current capacity: | 17,014,000 | <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³ |
| Estimated lifetime: | 37.6 | years |
| Estimated days open per year: | 260 | days |
| Estimated yearly disposal volume: | 409,000 | <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³ |

(if applicable)

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

* Capacity and estimated lifetime as of 10/31/99

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Whitefeather Development Company
County: Bay Location: Town: 17N Range: 4E Section(s): 2

Map identifying location included in Attachment Section: ☐ Yes ☒ No

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

☐ Public ☒ Private Owner: Republic Services

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, but closure
☐ pending

Waste Types Received (check all that apply)

☒ residential
☒ commercial
☒ industrial
☒ construction & demolition
☒ contaminated soils
☒ special wastes *
☐ other:

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

Site Size:

Total area of facility property: 752 acres
Total area sited for use: 106 acres
Total area permitted: 56.5 acres
Operating: 24.5 acres
Not excavated: 32.0 acres

Current capacity: 4,175,153 ☐ tons or ☒ yds³
Estimated lifetime: 18.8 years
Estimated days open per year: 260 days
Estimated yearly disposal volume: 380,000 ☐ tons or ☒ yds³

(if applicable)

Annual energy production:
Landfill gas recovery projects: None megawatts
Waste-to-energy incinerators: None megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill

Facility Name: Waters Landfill

County: Crawford Location: Town: 28 N Range: 3 W Section(s): 28

Map identifying location included in Attachment Section: ☐ Yes ☒ No

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

☐ Public ☒ Private Owner: Waste Management

Operating Status (check)

☒ open
☐ closed
☒ licensed
☐ unlicensed
☐ construction permit
☐ open, but closure
☐ pending

Waste Types Received (check all that apply)

☒ residential
☒ commercial
☒ industrial
☒ construction & demolition
☒ contaminated soils
☒ special wastes *
☐ other:

* Explanation of special wastes, including a specific list and/or conditions: paper mill sludge, wood ash, foundry sand, petroleum-contaminated soils

Site Size:

| | | |
|-----------------------------------|-----------|---|
| Total area of facility property: | 256 | acres |
| Total area sited for use: | 252 | acres |
| Total area permitted: | 79.07 | acres |
| Operating: | 9.7 | acres |
| Not excavated: | 64.87 | acres |
| Current capacity: | 5,700,000 | <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³ |
| Estimated lifetime: | 20 | years |
| Estimated days open per year: | 313 | days |
| Estimated yearly disposal volume: | 200,000 | <input type="checkbox"/> tons or <input checked="" type="checkbox"/> yds ³ |

(if applicable)

| | | |
|---------------------------------|------|-----------|
| Annual energy production: | | |
| Landfill gas recovery projects: | None | megawatts |
| Waste-to-energy incinerators: | None | megawatts |

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION:

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

The existing collection and transportation system will remain in place under the updated plan. This means that solid waste collection services will continue to be mainly provided by private enterprise through a free market system that utilizes both municipal contracts and individual arrangements with solid waste haulers. However, it is not this plan's intent to preclude involvement by local governments in providing solid waste collection services should they desire to do so. Presently, the only public entity that provides collection services is the Village of Farwell.

[illegible]

III-13

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 programs in Clare County are presently operated by the private sector. The materials collected are cardboard, newspaper, tin cans, aluminum, #1 and #2 plastic, and clear, green and amber glass.

These materials are collected from the following locations in the manner described below:

1. Materials are delivered directly to the Northern Oaks Recycling & Disposal Facility in Hayes Township.
2. Materials are collected at curbside from residences in the City of Clare.
3. Materials are dropped off at the Surrey Township Transfer Station by residents of Surrey, Garfield and Grant Townships, and the Village of Farwell.
4. Cardboard is collected separately from businesses throughout the County.
5. Direct drop-off at the MRF in Mt. Pleasant (Isabella County).
6. Farwell High School, Mid Michigan Community College, and the Clare County Building have recycling programs for white paper, steel, cardboard, and other materials.

All of these materials are transported to a Materials Recovery Facility in Isabella County for separation (if required, processing, and marketing. A portion of the recyclable materials collected are transported to the MRF as commingled tin, glass, plastic, and aluminum.

In 1997, the total quantity of recyclable materials collected from these programs was 260 tons. In 1998, the total quantity collected was 102.75 tons.

Composting programs are also primarily operated by the private sector in Clare County. Currently, curbside collection of yard wastes occurs only in the City of Clare and Lincoln Township. Composting sites where yard wastes may be dropped off are located in Lincoln and Surrey Townships. Finally, yard wastes may be brought directly to the Northern Oaks facility where a separate composting area is available. The yard waste collected in Clare is also hauled to this site. 308 cubic yards of material were composted at the Northern Oaks facility in 1998.

Finally, Waste Management sponsors an annual Household Hazardous Waste Collection at the Northern Oaks site. Residents are able to bring in potentially hazardous materials from their homes for collection and disposal by trained personnel. The event, which usually takes place in early October, is publicized in the local media.

SELECTED SYSTEM

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

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

Also see the preceding discussion.

☒ 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:

Also see the preceding discussion. _____

☒ 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:

Also see the preceding discussion. _____

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 and 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 and 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.

The current recycling programs in Clare County are well-established and primarily furnished by the private sector. Current operations include the drop-off site at the Northern Oaks Recycling & Disposal Facility, a drop-off site at the Surrey Township Transfer Station, curbside collection of recyclables in the City of Clare, and collection of corrugated paper (cardboard) from businesses throughout the County. The continuation of these programs is encouraged by this plan. These services are available to all local governments in Clare County through contracts with the private solid waste industry. Under the updated plan, all local units of government in the County are encouraged to provide recycling opportunities for their residents through one or more methods. Options include direct municipal contracts with private industry for curbside collection of recyclable materials or arranging for establishment of drop-off sites, preferably in conjunction with Type B transfer stations ("green boxes"). Community organizations are also encouraged to become involved in promoting and expanding recycling opportunities.

Existing composting operations include curbside pickup of yard waste in the City of Clare and Lincoln Township, and drop-off sites for yard waste in Surrey Township, Lincoln Township, and at the Northern Oaks Recycling & Disposal Facility. No other formal composting programs currently exist. Residents also practice "backyard" composting at their homes. All of these activities will be continued under the updated plan. As with recycling, curbside pickup of yard waste from residences is available in all communities through contracts with the private sector. Under the updated plan, composting is encouraged in all communities through any combination of methods. These include home composting by residents, municipal contracting for curbside collection of yard waste, and sponsorship of yard waste drop-off sites.

TABLE III-1 – RECYCLING

| Program Name | Service Area ¹ | Public or Private | Collection Point ² | Collection Frequency ³ | Materials Collected ⁴ | Program Management Responsibilities ⁵ | | |
|--------------------------------|-------------------------------------|-------------------|-------------------------------|-----------------------------------|----------------------------------|--|-----------|------------|
| | | | | | | Development | Operation | Evaluation |
| Clare Curbside Recycling | City of Clare | Private | C | W | ABDEF | 3,5 | 5 | 3,5 |
| Surrey Twp. Transfer Station | Surrey & Grant Twps., Farwell | Public | D | D | ABDEF | 3 | 6 | 3 |
| Northern Oaks RDF | Clare County | Private | D | D | ABDEF | 5 | 5 | 5 |
| Business OCC Recycling | Clare County | Private | C | W | C | 5 | 5 | 5 |
| Farwell High School Recycling | Farwell Area Schools | Public | O | W | ACDF | School | School | School |
| Mid Michigan Community College | Mid Michigan Community College | Public | O | W | CD | School | School | School |
| Clare County Building | Clare County Administrative Offices | Public | O | W | CD | 2 | 2,5 | 2 |

☐ 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 name and respective county.

² Identified by: C = Curbside; D = Drop-off; O = Onsite; and, if other, explained.

³ Identified by: D = Daily; W = Weekly; B = Biweekly; M = Monthly; and, if seasonal, Sp = Spring; Su = Summer; Fa = Fall; Wi = Winter.

⁴ Identified by the materials collected by listing of the letter located by that material type: A = Plastics; B = Newspapers; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1, L2, etc. are identified on page III-25.

⁵ Identified by: 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page III-24).

TABLE III-2 - COMPOSTING

| Program Name | Service Area ¹ | Public or Private | Collection Point ² | Collection Frequency ³ | Materials Collected ⁴ | Program Management Responsibilities ⁵ | | |
|-------------------------------------|------------------------------|-------------------|-------------------------------|-----------------------------------|----------------------------------|--|-----------|------------|
| | | | | | | Development | Operation | Evaluation |
| City of Clare Yard Waste Collection | City of Clare | Private | c | w | G, L | 3, 5 | 5 | 3, 5 |
| Northern Oaks Composting Site | Clare County | Private | d | d | G, L | 5 | 5 | 5 |
| Surrey Twp Composting Site | Surrey & Grant Twps, Farwell | Public | d | d | G, L | 3 | 5 | 3 |
| Lincoln Twp Composting Site | Lincoln Twp | Public | d | d | G, L | 3 | 3 | 3 |
| Garfield Twp Composting Site | Garfield Twp | Public | d | d | G, L | 3 | 3 | 3 |
| City of Harrison Composting Site | City of Harrison | Public | d | d | G, 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 c = curbside; d = drop-off; o = onsite; and if other, explained.

³ 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.

⁴ 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; = as identified on page 26.

⁵ 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).

TABLE III-3 – SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS

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

| Program Name | Service Area ¹ | Public or Private | Collection Point ² | Collection Frequency ³ | Materials Collected ⁴ | Program Management Responsibilities ⁵ | | |
|---------------------------------|---------------------------|-------------------|-------------------------------|-----------------------------------|----------------------------------|--|-----------|------------|
| | | | | | | Development | Operation | Evaluation |
| Northern Oaks HHW Day | Clare County | Private | D | 1/yr | AR, B2, C, H, P, PS, PH | 5 | 5 | 5 |
| Clare Used Motor Oil Collection | City of Clare | Public | D | D | OF | 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 C = curbside; D = drop-off; O = onsite; and if other, explained.

³ 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.

⁴ Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

⁵ 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).

TABLE III-4 – PROPOSED RECYCLING

| Program Name (if known) | Service Area ¹ | Public or Private | Collection Point ² | Collection Frequency ³ | Materials Collected ⁴ | Program Management Responsibilities ⁵ | | |
|---------------------------------------|---------------------------|----------------------|----------------------------------|--------------------------------------|-------------------------------------|--|-----------|------------|
| | | | | | | Development | Operation | Evaluation |
| No new programs currently proposed | | | | | | | | |
| | | | | | | | | |

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

³ 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.

⁴ 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.

⁵ 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).

TABLE III-5 – PROPOSED COMPOSTING

| Program Name, (if known) | Service Area ¹ | Public or Private | Collection Point ² | Collection Frequency ³ | Materials Collected ⁴ | Program Management Responsibilities ⁵ | | |
|--|---------------------------|----------------------|----------------------------------|--------------------------------------|-------------------------------------|--|-----------|------------|
| | | | | | | Development | Operation | Evaluation |
| No new programs currently proposed. | | | | | | | | |
| | | | | | | | | |

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

³ 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.

⁴ 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.

⁵ 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).

TABLE III-6 - PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

| Program Name, (if known) | Service Area ¹ | Public or Private | Collection Point ² | Collection Frequency ³ | Materials Collected ⁴ | Program Management Responsibilities ⁵ | | |
|--|---------------------------|----------------------|----------------------------------|--------------------------------------|-------------------------------------|--|-----------|------------|
| | | | | | | Development | Operation | Evaluation |
| No new programs currently proposed. | | | | | | | | |

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

³ 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.

⁴ Identified by the materials collected by listing of the letter located by that material type. AR = Aerosol Cans; A = Automotive Products except Used Oil, Oil Filters & Antifreeze; AN = Antifreeze; B1 = Lead Acid Batteries; B2 = Household Batteries; C = Cleaners and Polishers; H = Hobby and Art Supplies; OF = Used Oil Filters; P = Paints and Solvents; PS = Pesticides and Herbicides; PH = Personal and Health Care Products; U = Used Oil; OT = Other Materials and identified.

⁵ 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).

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:

No identified groups presently have management responsibilities. However, this does not preclude future involvement by environmental groups.

Other:

The private solid waste management industry operating in the County (specifically Waste Management) currently provides resource recovery programs. However, this does not preclude other private firms, municipalities, and other organizations from becoming involved in providing resource recovery programs under the updated plan.

PROJECTED DIVERSION RATES:

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

| COLLECTED MATERIAL | | Projected Annual Tons Diverted: | | | COLLECTED MATERIAL | | Projected Annual Tons Diverted | | |
|--------------------|-----------------------|---------------------------------|--------|---------|--------------------|-----------------------------|--------------------------------|--------|---------|
| | | Current | 5th Yr | 10th Yr | | | Current | 5th Yr | 10th Yr |
| A. | TOTAL PLASTICS | 7.8 | 8.6 | 9.4 | G | GRASS AND LEAVES | 476.7 | 500.0 | 525.0 |
| B/ | NEWSPAPER | 190.2 | 209.0 | 230.0 | H | TOTAL WOOD WASTE | | | |
| C | CORRUGATED CONTAINERS | 4.0 | 4.4 | 4.8 | I | CONSTRUCTION AND DEMOLITION | | | |
| D | TOTAL OTHER PAPER | | | | J | FOOD AND FOOD PROCESSING | | | |
| E | TOTAL GLASS | 8.8 | 9.7 | 10.6 | K | TIRES | | | |
| F | OTHER MATERIALS | | | | L | TOTAL METALS | 10.5 | 11.5 | 12.7 |
| F1 | Glass/Plastic/Metal | 29.5 | 32.5 | 35.7 | F3 | | | | |
| F2 | Other | | | | 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 | | |
| C | CORRUGATED CONTAINERS | 100% | | I | CONSTRUCTION AND DEMOLITION | | |
| D | TOTAL OTHER PAPER | | | J | FOOD AND FOOD PROCESSING | | |
| E | TOTAL GLASS | 100% | | K | TIRES | | |
| F | OTHER MATERIALS | | | L | TOTAL METALS | | |
| F1 | Glass/Plastic/Metal | 100% | | F3 | | 100% | |
| 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 |
|----------------------------|------------------------------|--------------------------------|-------------------------------|
| 1,2,3,4,5 | f | p | DPA |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

☐ Additional efforts and the above information for those efforts are listed in Appendix E.

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 |
|---|----------|
| Resource Conservation & Waste Reduction (voluntary efforts) | Ongoing |
| Collection & transportation | Ongoing |
| Recycling | Ongoing |
| Composting | Ongoing |
| Landfilling | Ongoing |
| Resource Recovery Education | Ongoing |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

SITING REVIEW PROCEDURES

AUTHORIZED DISPOSAL AREA TYPES

The following solid waste disposal area types may not be sited by this Plan. Any proposal to construct a facility listed herein shall be deemed inconsistent with this Plan.

No new solid waste disposal areas or facilities may be sited under this Plan.

SITING CRITERIA AND PROCESS

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

Clare County has access to well over 10 years of disposal capacity. Therefore, a siting process is not required and such a process has not been included in this Plan. No new solid waste disposal, transfer, or storage facilities may be sited under this Plan.

SOLID WASTE MANAGEMENT COMPONENTS¹

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.

See the attached pages.

¹ Components or subcomponents may be added to this table.

EXISTING MANAGEMENT CAPABILITIES

Ongoing Planning, Coordination and Plan Implementation

Countywide solid waste management planning and coordination is an ongoing process. Part 115 requires that the Solid Waste Plan is updated every five years and that plan implementation must be ensured through the assignment of management responsibilities.

The County Administrator has been assigned the responsibility of overseeing the plan update. The office of the County Administrator, as the designated solid waste planning agency, has coordinated the plan update process with the Solid Waste Management Planning Committee.

Coordination and cooperation among the municipalities in Clare County, and between the public and private sectors, are major elements of successful plan implementation. The Solid Waste Management Planning Committee has outlined a way to achieve this coordination. However, the duties of this committee are officially completed once the updated plan receives final approval. No other existing organization is available to serve this function.

Collection and Transportation of Solid Waste

The private solid waste management industry currently provides solid waste collection and transportation services to all parts of Clare County, either through municipal contracts or individual subscriptions with homes and businesses. With the exception of the Village of Farwell DPW, no public agency in the county presently operates a solid waste collection and transportation system. The private sector can continue to provide these services economically and efficiently as long as disposal facilities are available within a reasonable distance.

Construction, Operation and Maintenance of Solid Waste Facilities

With the exception of Type B transfer facilities, the construction and operation of solid waste facilities in compliance with Part 115 is a costly undertaking that cannot typically be accomplished by a single rural municipality. Rural municipalities, such as townships, have the financial capabilities to develop Type B transfer facilities. However, the operation and maintenance of these facilities is most typically performed by the private solid waste industry.

There is currently no county agency with the administrative and technical capabilities to operate a solid waste disposal facility. The County Board of Public Works has the legal authority to own and operate a solid waste facility in accordance with this plan and applicable laws. However, the County Board of Public Works is not currently authorized to take on this responsibility.

The private sector has constructed the Northern Oaks Recycling and Disposal Facility (RDF), and it has the capabilities to operate the facility in accordance with Part 115. This arrangement will continue under this

updated plan

Financial Capabilities

The municipalities and residents of Clare County have the capability to finance the collection and transportation of solid waste by entering into contracts with private haulers. Clare County is the only public agency within the county with the capability to construct and operate a solid waste disposal facility, such as a sanitary landfill. The construction of a disposal facility is a costly undertaking that cannot typically be financed by an individual rural municipality. The private solid waste industry has constructed the present disposal facility in the county, and it has the financial capabilities to continue to operate the facility.

Regulation and Enforcement

Regulations for construction and operation of solid waste facilities are defined by state legislation, particularly Act 451. The Michigan Department of Environmental Quality (DEQ) is the enforcement body for compliance with Act 451 within the county.

Recommended Management System

The updated plan recommends the continuation of the existing management system. The Clare County Board of Commissioners will have the primary responsibilities for overseeing, enforcing, and coordinating the implementation of this plan. The County Board may delegate responsibilities to other county departments and boards, such as the County Administrator (Designated Planning Agency) and the County Board of Public Works.

The County Board of Commissioners may also establish advisory boards or similar entities that it finds necessary to assist in carrying out this plan. Finally, the County Board may hire or contract with qualified personnel to assist in plan implementation.

The State of Michigan is responsible for the development, operation, and enforcement of the various laws and rules regarding the management of solid waste in the State of Michigan.

Other entities with management responsibilities for carrying out the plan's various provisions are identified on the following pages.

IDENTIFICATION OF RESPONSIBLE PARTIES

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

Resource Conservation:

Source or Waste Reduction – All citizens, businesses, and industries. Educational and promotional efforts led by the Designated Planning Agency (DPA) under the direction of the County Board of Commissioners.

Product Reuse - All citizens, businesses, and industries. Educational and promotional efforts led by the DPA under the direction of the County Board of Commissioners.

Reduced Material Volume - All citizens, businesses, and industries. Educational and promotional efforts led by the DPA under the direction of the County Board of Commissioners.

Increased Product Lifetime - All citizens, businesses, and industries. Educational and promotional efforts led by the DPA under the direction of the County Board of Commissioners.

Decreased Consumption - All citizens, businesses, and industries. Educational and promotional efforts led by the DPA under the direction of the County Board of Commissioners.

Resource Recovery Programs:

Composting – Private solid waste industry, municipalities, residents.

Recycling – DPA and County Board (promotion and education), municipalities, businesses, industries, residents, private solid waste industry.

Energy Production – Not included in plan.

Volume Reduction Techniques:

Private solid waste industry through collection, disposal, and recycling operations. Also, residents, businesses, and industries through voluntary efforts.

Collection Processes:

Private solid waste industry & municipalities.

SELECTED SYSTEM

Transportation:

Private solid waste industry.

Disposal Areas:

Processing Plants – Not permitted under this plan.

Incineration – Not permitted under this plan.

Transfer Stations – Type B: Private solid waste industry and municipalities. Type A: Not permitted under this plan.

Sanitary Landfills – Private solid waste industry.

Ultimate Disposal Area Uses:

Private solid waste industry in cooperation with host community.

Local Responsibility for Plan Update Monitoring & Enforcement:

County Board of Commissioners

Educational and Informational Programs:

County Board & DPA, private solid waste industry.

Documentation of acceptance of responsibilities is contained in Appendix D.

EXECUTIVE SUMMARY

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

D. Geographic area/Unit of government:

Type of disposal area affected:

Ordinance or other legal basis:

Requirement/restriction:

E. Geographic area/Unit of government:

Type of disposal area affected:

Ordinance or other legal basis:

Requirement/restriction:

- ☒ 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.

☐ Additional listings are on attached pages.

Regulations governing the following subjects may be adopted and implemented by the County and all local units of government:

1. The following facility design elements: greenbelts, landscaping, screening, and fencing.
2. Hours of facility operation.
3. Control of noise, litter, dust, odors, and pest species.
4. Operating records and reports.
5. Site security.
6. Monitoring of wastes accepted and prohibited.
7. Waste disposal surcharges.

CAPACITY CERTIFICATIONS

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



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



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:

Certification of more than ten year's disposal capacity is attached on the following page (III-37).



NORTHERN OAKS RECYCLING AND DISPOSAL
A WASTE MANAGEMENT COMPANY

P.O. Box 813
513 N. County Farm Road
Harrison, Michigan 48625
(517) 539-6111

March 22, 2000

Clare County Solid Waste Committee
P.O. Box 438
Harrison, MI 48625

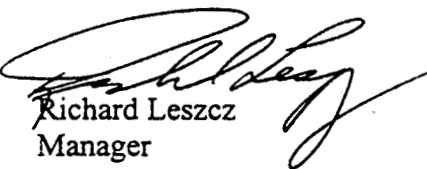
Dear Committee Members:

The following report is Northern Oaks R.D.F. certification of landfill capacity for solid waste planning. To complete our review certain assumptions (acceptable industry wide) must be made. They are:

1. "Gate" yards differ from "Bank" yards.
 - A. "Gate yards are the volume of trash on the truck as it enters the facility
 - B. "Bank yards are the volume or capacity of the cell, or the refuse compacted in place. The recognized industry or national value for Gate-vs-in place yards is 2 to 1.

Based on the 76 acres approved by the MDEQ, we have at least nine million plus bank yards, therefor Northern Oaks R.D.F. has more than ten years of disposal capacity for Clare County's solid waste.

Sincerely,


Richard Leszcz
Manager