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

December 4, 2000

Mr. Richard Gay, Chairperson
Gratiot County Board of Commissioners
214 East Center Street
Ithaca, Michigan 48847

Dear Mr. Gay:

The Department of Environmental Quality (DEQ) received the locally approved update to the Gratiot County Solid Waste Management Plan (Plan) on January 13, 2000. Except for the items indicated below, the Plan is approvable. As outlined in the April 26, 2000 letter to Ms. Helen Laurenz, Gratiot County Drain Commissioner, from Ms. Lynn Dumroese, DEQ, Waste Management Division, and as confirmed in your letter dated August 9, 2000, the DEQ makes the following modifications to the Plan:

On page III-34, relative to the Solid Waste Review Committee (SWRC) appointment process, the first sentence in the last paragraph is not a complete sentence. In order to clarify Gratiot County's (County's) intent, this sentence shall read as follows:

> If the proposed host community is not already represented by one or more of the appointments to this committee, one additional SWRC member from the proposed host community will be appointed by the host community (subject to the BOC approval) to participate in the review process. The term of the host community representative shall last for the duration of the facility review.

On page III-35, the last sentence on the page states, "An informational meeting shall be scheduled by the SWRC." There is no specific time frame or default action for failing to schedule this meeting. The lack of a mandatory time frame to schedule an informational meeting leaves the procedure without any assurance that a decision will be made in a timely fashion. Section 11538 (3) of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), requires that a siting mechanism not be subject to discretionary acts by the local planning entity and that the procedure will guarantee a decision. The County intended on allowing 45 days for the SWRC to schedule an

informational meeting. This sentence shall be changed to read, "An informational meeting shall be scheduled by the SWRC within 45 calendar days after the proposal has been determined to be administratively complete."

On page III-36, no specific time frame for the SWRC to determine the proposal's consistency or inconsistency with the Plan has been established. Once again, the lack of a mandatory time frame for the SWRC to make a determination on consistency leaves the procedure without any assurance that a decision will be made in a timely fashion. In order to establish a time frame, the following sentence will be added to the beginning of the third paragraph, "The SWRC shall have 45 calendar days in which to determine if the proposal is consistent with the criteria in the Plan." In addition, the first sentence in the fourth paragraph refers to a seven-day time period that the SWRC has to make their recommendation to the Board of Commissioners (BOC) on consistency. The only seven-day time period established in the Plan is a requirement for publication and notifying municipalities of the informational meeting. As previously mentioned, the time frame for the SWRC to determine consistency shall be 45 days; therefore, in order to establish a default mechanism should the SWRC fail to make their recommendation, the following sentence should be added,

> If the SWRC fails to make a recommendation to the BOC on consistency of the proposal within the 45-day time period, the BOC shall review the proposal(s) in accordance with the provisions of the siting criteria in the Plan, and within 45 calendar days find the proposal(s) consistent or inconsistent with the Plan.

On page III-36, the first sentence in the fifth paragraph is not a complete sentence. In order to clarify the County's intent, this sentence shall read as follows:

> Within 45 calendar days after the BOC becomes responsible to determine the proposal's consistency with the Gratiot County Solid Waste Management Plan, the BOC shall find the proposal consistent or inconsistent with the Plan in accordance with the procedures approved as part of the Plan.

On page III-37, criterion number 2 states, "The solid waste disposal facility, or active work area of a facility, shall not be closer than 500 feet..." The fragment "solid waste disposal facility" shall be deleted because all facilities must somehow connect to a road and this could be interpreted so as to prohibit siting of any facility.

On page III-37, criterion number 6 states, "The prohibited facility shall not be located in an area defined in..." This sentence should be clarified to give objective certainty regarding what "area" means because Section 32301 of Part 323, Shorelands Protection and Management, of Act 451 defines several terms. The County intended for this criterion to state "environmental area." Therefore, the term "area" shall be replaced with "environmental area."

On page III-37, criterion number 7 prohibits the siting of a facility in a groundwater recharge area as defined by the United States Geological Survey (USGS). The Plan should be clarified to give objective certainty to this criterion by indicating that this definition will be based on the most currently available map from the USGS, that delineates groundwater recharge areas. The first sentence in criterion number 7 is revised to read, "The proposed facility shall not be located in an area of groundwater recharge, as defined by the most current available map from the United States Geological Survey or in a wellhead protection area, as approved by the DEQ."

On page III-43, item 3 is checked, but there are no local regulations listed. The County did not intend to check item number 3 in the final Plan; therefore, none of the boxes in the Local Ordinances and Regulations section of the Plan will be marked.

The Alma Transfer Station was inadvertently omitted in the final draft for the Gratiot County Plan. This facility is open and the County is utilizing it. The Alma Transfer Station shall be added on page III-8 under the heading entitled "Type A Transfer Facility," and the facility description for this Type A Transfer Station shall be added to the Plan.

By letter dated August 9, 2000, the BOC approved these modifications and included one additional correction. On page III-19, Great Lakes Disposal was inadvertently omitted as a service provider for the County. Great Lakes Disposal does provide disposal service to the County; therefore, they shall be added to the list of service providers on page III-19.

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

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

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

The DEQ applauds your efforts and commitment in addressing the solid waste management issues in Gratiot County. If you have any questions, please contact Mr. Seth Phillips, Chief, Solid Waste Management Unit, at 517-373-4750.

Sincerely,

Arthur R Nash ACTING

Russell J. Harding
Director
517-373-7917

cc: Senator Mike Goschka
Representative Larry L. DeVuyst
Representative Tony Stamas
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Steve Blayer, DEQ - Shiawassee
Mr. Seth Phillips, DEQ
Ms. Lynn Dumroese, DEQ
Gratiot County File

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)

FACILITY DESCRIPTIONS

Facility Type: Solid Waste Transfer Station

Facility Name: Alma Transfer Station

County: Gratiot Location: Town: St. Louis Range St. Louis Section(s): 26

Map identifying location included in Attachment Section: Yes X No

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: Northern Oaks and People's Landfills

_ Public X Private Owner: USA Waste/Waste Management

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

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

Site Size:

Total area of facility property: approximately	13	acres
Total area sited for use:	N/A	acres
Total area permitted:	N/A	acres
Operating:	N/A	acres
Not excavated:	—	acres
Current capacity:	N/A	_ tons or X yds³
Estimated lifetime:	N/A	years
Estimated days open per year:	240	days
Estimated yearly disposal volume:	720 tons	_ tons or X yds³

(if applicable)
Annual energy production:

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

Note: Numbers are listed as they were reported from facility.

Post-it® Fax Note 7671

To DEQ	Date
Co./Dept. Lynn	# of pages ▶ 5
Phone # 517-373-4738	From Helen
Fax # 517-373-4797	Co. Gratiot Co
	Phone # 517-875-5262
	Fax # 517-875-5362

DEQ

Michigan Department of Environmental Quality
Waste Management Division

SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq. (Part 115), and authorizes the operation of this solid waste disposal area (Facility) in the state of Michigan. This license does not obviate the need to obtain other authorizations as may be required by state law.

FACILITY NAME: Alma Transfer Station

GRANTED TO: Waste Management

TYPE OF FACILITY: Solid Waste Transfer Facility

FACILITY ID: 28-000019

COUNTY: Gratiot

LICENSE NUMBER: 8628

ISSUE DATE: June 10, 1999

EXPIRATION DATE: June 10, 2001

FACILITY DESCRIPTION: The Alma Transfer Facility is located at 2355 East Michigan Avenue, City of St. Louis, Michigan 48801, as identified in Attachment A, and as fully described in the attached conditions.

AREA AUTHORIZED FOR THE ACCEPTANCE AND/OR PLACEMENT OF SOLID WASTE: Identified in Attachment A of this license.

RESPONSIBLE PARTY TO CONTACT: Ms. Mary Fisher, Division Manager
Waste Management
1311 N. Niagara Street
Saginaw, Michigan 48602
517-752-4100

☒ **FIRST OPERATING LICENSE:** The previous Operating License Number 8423 for this Facility expired on January 8, 1999, prior to receipt of the application for this Operating License Number 8628. Therefore, this is a new operating license issued to the licensee for this existing Facility.

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality (Director) if the Director finds that the disposal area is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, this act, or the rules promulgated under this act. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties as stipulated in Part 115. This license shall be available through the licensee during the entire effective date and remains the property of the Director.

THIS LICENSE IS NOT TRANSFERABLE.

Joan H. Peck

Joan H. Peck, Chief, Solid Waste Program Section

Applicant: Waste Management
Facility Name: Alma Transfer Station
Operating License Number: 8628
June 1999

The licensee shall comply with all terms of this license and the provisions of Part 115 and its rules. This license includes the license application and any attachments to this license.

1. The licensee shall operate the Facility in a manner that will prevent violations of any state or federal law.

2. Attachment A is a site plan showing the general layout of structures, equipment, roads, property lines, area(s) authorized for the placement and/or acceptance of solid waste, and monitoring points, if applicable.

3. Issuance of this license is based on the assumption that the information submitted in the Application for Solid Waste Disposal Area License (Application) received by the Michigan Department of Environmental Quality (Department) on March 15, 1999 and any subsequent amendments is accurate. Any material or intentional inaccuracies found in this information may be grounds for the revocation or modification of this license or other enforcement action. The licensee shall inform the Department's Waste Management Division, Shiawassee District Supervisor, of any known material or intentional inaccuracies in the information of the Application which would affect the licensee's ability to comply with the applicable rules or license conditions.

4. This license is issued based on the Department's review of the Application for the Alma Transfer Facility, dated March 11, 1999.

   The Application is composed of the following:

   a. Application Form EQP 5507.

   b. Fee in the amount of $500.00.

   c. Certification of construction: N/A

   d. Financial assurance documents listed below:

Type	Number	Amount	Expiration Date
Surety Bond	123016	$4,000.00	May 22, 2000

5. The following documents, approved in Operating License Number 6502 and issued to Tri County Transfer Station on September 6, 1979, are incorporated in this license by reference: N/A

6. The following additional documents, approved since the issuance of the license listed in Item 5 of this license, are incorporated in this license by reference: N/A

7. **CONSENT JUDGMENT/ORDER:** N/A

8. **SAMPLING PARAMETERS AND MONITORING FREQUENCIES:** N/A

9. The licensee shall maintain a bond for the Facility in accordance with Section 11523 of Part 115. The licensee shall be deemed to be without the bond required under Section 11523 of Part 115 in

Applicant: Waste Management
Facility Name: Alma Transfer Station
Operating License Number: 3628
June 1999

the event of bankruptcy of the issuing institution, or a suspension to the authority of the institution issuing the bond. The licensee shall establish other financial instruments within 60 days of such an event. The licensee shall renew a bond or financial instrument and submit documentation of such renewal to the Department Director at least 60 days prior to the expiration date of the bond. The renewal bond or financial instrument need not take effect until the expiration of the previous bond.

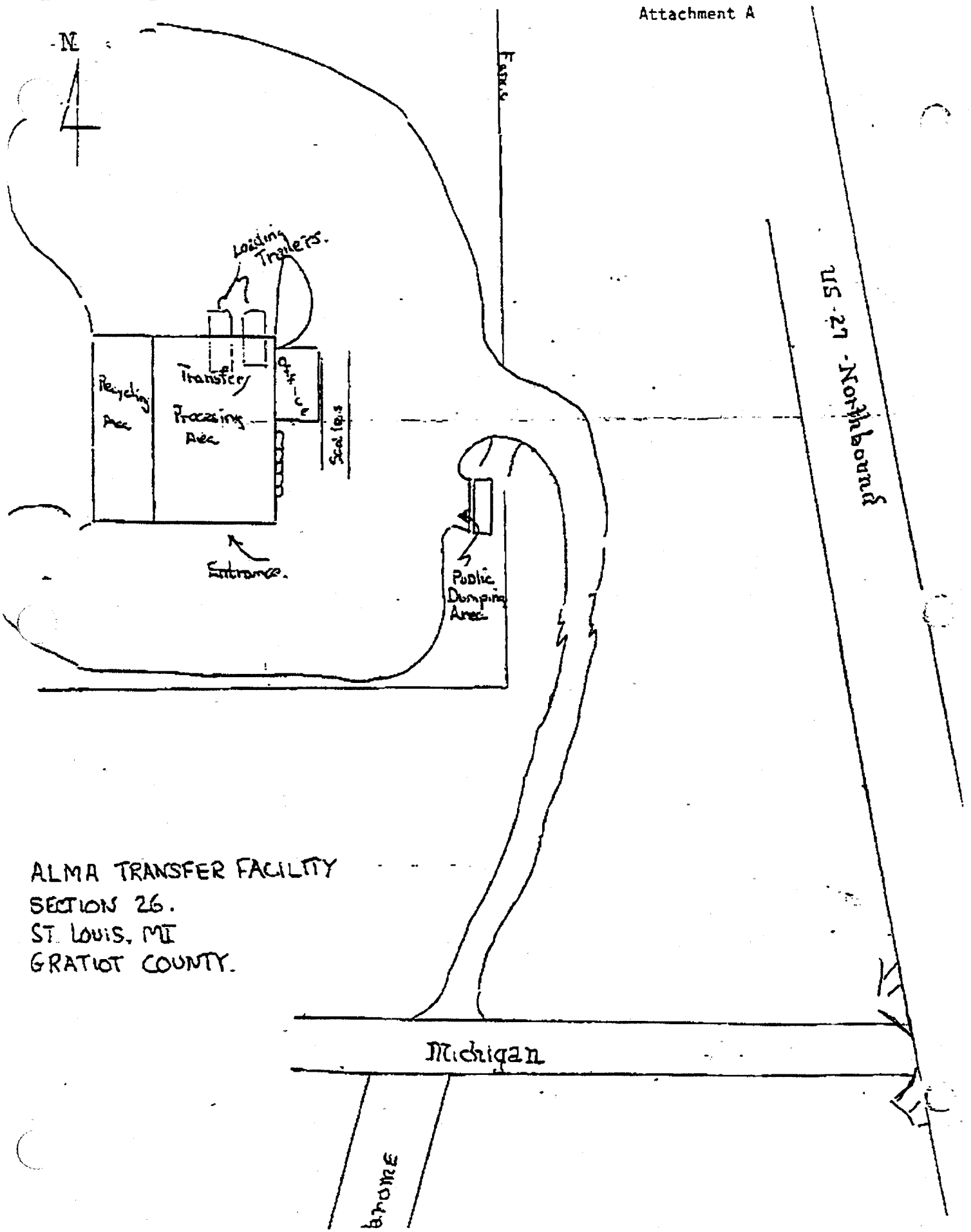
10. **VARIANCES**: None

11. **SPECIAL CONDITIONS:** None

12. This license shall remain in effect until its expiration date, unless revoked or continued in effect, as provided by 1969 PA 306, as amended, or unless superseded by the issuance of a subsequent license.

END OF LICENSE

Attachment A



ALMA TRANSFER FACILITY
SECTION 26.
ST. LOUIS, MI
GRATIOT COUNTY.

PART 115

SOLID WASTE PLAN

Prepared For
Gratiot County Board of Commissioners

Prepared By: The Designated Planning Agent
and the Solid Waste Committee

January 2000

1997 PLAN UPDATE COVER PAGE

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

DATE SUBMITTED TO THE DEQ:
If this Plan includes more than a single County, list all counties participating in this Plan.
June 16, 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
NA	NA	NA

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

CONTACT PERSON: Helen J. Laurenz

ADDRESS: Courthouse, 214 E. Center St.
Ithaca, MI 48847

PHONE: (517) 875-5207 FAX: (517) 875-5262

Applicable)
E-MAIL. drain@mach7.com (If Applicable)

CENTRAL REPOSITORY LOCATION(S): Gratiot County Drain Office

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EXECUTIVE SUMMARY

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

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

Township or Municipality Name	Population	% Land Use		% of Economic Base*				
		Rural	Urban	Ag	For	Ind	Com	Other
Alma City	9,368		100%	.08		8.52	15.22	76.18
Arcada Twp.	1,721	100%		33.52		.42	2.42	63.66
Ashley Village	537	100%		1.26			14.00	84.74
Bethany Twp.	1,881	100%		54.30		.38	3.74	41.58
Breckenridge Village	1,349		100%	.50		16.12	12.55	70.83
Elba Twp	1,441	100%		52.49			4.56	42.95
Emerson Twp	1,030	100%		70.47			2.71	26.82
Fulton Twp	2,192	100%		26.02		1.06	2.73	70.19
Hamilton Twp	502	100%		74.85		1.43	.14	23.58
Ithaca City	3,120		100%	.81		6.01	17.53	75.65
Lafayette Twp	701	100%		83.44			.01	16.55
Newark Twp	1,180	100%		56.53		.94	2.39	40.14
New Haven Twp	998	100%		54.61		1.63	.91	42.85
North Shade Twp	778	100%		72.77		.02	.12	27.09
North Star Twp	1,094	100%		63.64		.50	3.55	32.31
Perrinton Village	407	100%		2.84		1.52	7.59	88.05
Pine River Twp	2,140	100%		20.82		.87	24.22	54.09
St. Louis City	4,569**		100%			2.97	19.64	77.39
Seville Twp	2,277	100%		34.31			3.58	62.11
Sumner Twp	2,266	100%		43.84		.74	.75	54.67
Washington Twp	1,827	100%		60.93		.06	1.68	37.33
Wheeler Twp	3,005	100%		22.68		12.17	8.36	56.79

Total Population: 44,383

*Ag = Agriculture; For = Forestry; Ind = Industry; Com = Commercial; Oth = All Other Economic Bases
Additional listings, if necessary, are listed on an attached page.
**Includes a count of 600 inmates housed by the Department of Corrections.

EXECUTIVE SUMMARY

Gratiot County is located at the center of Michigan's lower Peninsula between the industrial areas of the south and the recreational area of the north. Much of the County is rural and dependent upon agricultur producing dry beans, sugar beets, corn, wheat, corn oats, poultry, pigs, cattle and dairy products. Agriculture accounts for 70% of all land use. The commercial and industrial development in the county centered primarily along the U.S. 27 corridor around the cities of Ithaca, Alma and St. Louis. Manufact products include pleasure boats, molded plastic parts, and aircraft products and auto parts. The county a relies on retail trade and service industries. The Pine and Maple River, and three State Game Areas offe recreational opportunities in the county. Alma College is located in the City of Alma. Highway US-27 passes through the county from north to south. It is intersected to the north by M-46 and to the south by 57, which provides east-west access. The county has three Renaissance Zones and the one in Ithaca is be developed at this time, which will bring in more growth to the County.

CONCLUSIONS

There isn't a need to site a landfill with the capacity available to us at this time. If and when there becom need for Gratiot County to site a landfill we will be prepared to do so.
We intend to continue to provide a responsible solid waste management system to allow both public an private participation in the County's solid waste management program.

SELECTED ALTERNATIVES

It is not the desire of the County DPW to enter into the public collection business because it currently lac the staffing and expertise in this area. We recommend that the existing collection system remain intact ot than the County should explore the adoption of compulsory collection, and continue to utilize solid waste management facilities.

Compulsory collection is recommended for the County as a whole, even with the relatively low populatio density predominant throughout the majority of the geographic area, to prevent uncontrolled disposal of sc waste, and to promote participation in current and future recycling and separation projects.

In the rural areas a designated location where solid waste is collected in containers and hauled to disposal sites is recommended. This minimizes collection costs when long distances are involved between generato and the disposal site.

There are many landfills that have plenty of space and want the trash, therefore I do not see any reason for Gratiot County to site landfill at this time. The resource to work on will be reduction of waste, material recovery and composting.

Resource Conservation/Source Reduction

Resource recovery is the extraction of economically usable materials from a process-able waste stream for reuse in the production of new products.

The result of this program reduces the volumes of solid waste to be disposed and provides a potential revenue source from recovered waste management.

Materials Recovery

The only proven recycling process that has any history of success is magnetic separation of ferrous metals.

Composting

Composting is a process of bio-chemical decomposition of organic materials into humus substance.
The City of Alma, St. Louis and Ithaca have yard waste collection.
The city of Alma composts the yard waste and has it available to any resident that wants to pick up the material for his own use.
The City of St. Louis collects the yard waste and hauls it to a farmer who uses it to enhance his soil on his farm.
The City of Ithaca composts the yard waste and has it available to any resident who wants to pick it up for their own use.
The Village of Breckenridge composts the yard waste and has it available for the residents use.

The County will be encouraging composting county wide in Villages and rural areas that have not started a composting program on their own.
Composting will provide mulch and be a change of habit for those that have not yet started to compost and recycle.

INTRODUCTION

GOALS AND OBJECTIVES

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

> (1) To utilize, to the maximum extent possible, the resources available in Michigan's solid w 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 impr solid waste collection, transportation, processing, or disposal, so as to protect the quality of the the land, and ground and surface waters.

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

Goal 1:
Develop and implement an integrated solid waste management program, which protects public healt maximizing environmental and economic benefits.

Objective 1a:

Provide technical assistance to communities choosing standard waste hauling contracts.

Objective 1b:

Encourage County sponsorship of a household hazardous waste collection and education program. Encourage community pilot start-up programs as a vehicle for starting recycling in the county.

Goal 2: Develop and implement mechanisms to control illegal dumping. Provide incentives and education to prevent illegal dumping from occurring.

Objective 2a: Provide technical support and encouragement for communities that host large-item drop-offs and tire collections.

Objective 2b: Develop a county-wide illegal dumping task force consisting of community leaders, public and private sector and law enforcement officials.

Improve the enforcement of illegal dumping by enacting ordinances, which provide for fines and other penalties and encourage local communities to adopt and enforce it.
Encourage townships to contract for curbside trash pick-up.

Goal 3: Build an educated public where citizens are informed about and understand solid waste management issues and concerns.

Objective 3a: Encourage the county to maintain and expand a comprehensive education and information campaign to improve public awareness of solid waste management and household hazardous waste.

Objective 3b: Expand the educational campaign efforts of the Solid Waste Department through a comprehensive waste reduction guide, radio, newspaper, flyers and other media.
Encourage backyard composting by developing a training and education program.

Goal 4 Maintain, support and expand recycling programs and facilities.

Objective 4a: Encourage local businesses, hospitals, and nursing homes to participate in waste reduction, recycling and composting programs.

Objective 4b: Make the public aware of compost materials that are available at selected sites.

Objectives 4c:
Expand the educational campaign efforts of the Solid Waste department through a comprehensive composting guide, radio, newspaper, flyers and other media.

☐ 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. (Attach additional pages as necessary)

SOLID WASTE COLLECTION SERVICES

The following types of collection services are used within the County of Gratiot:

a) Collection by Contract with Municipality:
The cities of Alma, Ithaca, and St. Louis and the Villages of Ashley, Breckenridge and Perrinton contract with private haulers to collect refuse from within the community's jurisdiction.

b) Agreements with Individual Households, Commercial or Industrial Establishments:
All refuse collected outside of the above mentioned areas, is collected by private contractors contracting directly with individuals. Collection generally takes place on a weekly basis with the majority of haulers picking up at curbside.

c) Recycling Centers:
Waste Management, a private, for profit company that receives, processes and markets the following source separated materials: newsprint, mixed office paper, computer paper, corrugated cardboard, chipboard/sacks, clear and colored container glass, HDPE plastic beverage container, HDPE plastic containers for liquids, LD plastic film - pre and post consumer, ferrous metal, aluminum.

Processing includes strict quality control and sorting materials for type and color. In addition to accepting materials at the center, MMR also provides service for communities or companies. These include rental and transport of semi trailers to designated sites, supervisors for the site, pick-up of materials at customer sites on an arranged schedule and consulting services to initiate a recycling program.

TOTAL QUANTITY OF SOLID WASTE GENERATED:
39,950.33 (X) Tons or ☐ Cubic Yards in 365 days (identify unit of time)

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:
29,270.33 (X) Tons or ☐ Cubic Yards in 365 days (identify unit of time)

DATA BASE

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

The following table is a summary of landfills that are serving or may serve Gratiot County Solid Waste disposal needs. Private waste haulers have the ability to dispose of waste at Landfills of their choosing, provided the host County is included in both Plans. For more information, please refer to the facility description section of the Plan update.

Name		Current Capacity	Estimated Life
Northern Oaks	Clare Co.	8,755,100 CY	43 Yrs.
Autumn Hills RDF	Ottawa Co.	20,750,000 T	30.2 Yrs.
Brent Run Landfill	Genessee Co.	14,000,000 CY	30,2 Yrs.
Central Sanitary Landfill	Montcalm Co.	373,428 CY	2 Yrs.
Citizen Disposal, Inc.	Genesee Co.	5,300,000 CY	25 Yrs.
Daggett Sand & Gravel	Ingham Co.	66,000 CY	7 Yrs.
Granger Landfill Watertown	Clinton County	7,617,000 CY	32 Yrs.
Granger Landfill Wood St	Clinton Co.	10,981,000 CY	34 Yrs.
Ottawa Co. Farm Landfill	Ottawa Co.	16,500,000 CY	25 Yrs.
Pitsch Landfill	Ionia Co.	150,000 CY	30 Yrs.
Venice Park Recycling & Disposal	Shiawassee Co.	1,300,000 CY	2.5 Yrs.
Taymouth Landfill	Saginaw	1.3 million	7-8 Yrs.
People Landfill	Saginaw	15,301,641 CY	20Yrs.

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Landfill

Facility Name: Northern Oaks Recycling and Disposal Facility

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

Map identifying location included in Attachment Section: (X) Yes ☐ No

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

☐ Public (X) Private Owner: Waste Management of Michigan, Inc.

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

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

WWTP filter cake, sludge

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	76	acres
Total area permitted:	76	acres
Operating:	19	acres
Not excavated:	57	acres
Current capacity:	8,755,100	☐ tons or (X)yds^3
Estimated lifetime:	43	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	409,000	☐ tons or (X) yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type 11

Facility Name: Granger Grand River Avenue Landfill

County: Clinton Location: Town: 5N Range: 3W Section(s): 29

Map identifying location included in Attachment Section: (X) Yes ☐ No

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

☐Public (X) Private Owner: Granger Land Development Co.

Operating Status (check)		Waste Types Received (check all that apply)	
(X)	open	(X)	residential
☐	closed	(X)	commercial
(X)	licensed	(X)	industrial
☐	unlicensed	(X)	construction & demolition
(X)	construction permit	(X)	contaminated soils
☐	open, but closure pending	(X)	special wastes *
		(X)	other: Type 111 Waste

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

Site Size:

Total area of facility property 1	180.9	acres
Total area sited for use: Plant	120.9	acres
Total area permitted: for disposal, 1.c.SWET	85.7	acres
Operating: Licensed and certified	54.1	acres
Not excavated: Developed	31.6	acres
Current capacity:	7,617,000	AIR YDS
Estimated lifetime:	32	years
Estimated days open per year:	300	days
Estimated yearly disposal volume:	600,000	Gate yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	4.0	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Dosposal

Facility Name: Granger Wood Street Landfill

County: Clinton & Ingham Location: Town: 5N & 4N Range: 2W Section(s): 34 & 3

Map identifying location included in Attachment Section: (X) Yes ☐ No If requested

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

☐ Public (X) Private Owner: Granger Waste Management Company

Operating Status (check)		Waste Types Received (check all that apply)	
(X)	open	(X)	residential
☐	closed *1	(X)	commercial
(X)	licensed	(X)	industrial
☐	unlicensed	(X)	construction & demolition
(X)	construction permit	(X)	contaminated soils
☐	open, but closure pending	(X)	special wastes *
		(X)	other: Type 111 Waste

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

All as Authoried

Site Size:

Total area of facility property: 1	302.8	acres
Total area sited for use: Plant	194.8	acres +67 future permitting in Ingham Co.
Total area permitted: For Disposal I.E. SWE	104.3	acres
Operating: Licensed & Certified	49.5	acres
Not excavated: Developed	54.8	acres
Current capacity:	10,981,000	Air yds^3
Estimated lifetime:	34	years
Estimated days open per year:	260	days
Estimated yearly disposal volume	600,000	Gate yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	3.2	megawatts
Waste-to-energy incinerators:		megawatts

*1: Includes Acres of separate Paulson Street Facility to be consistent with DEQ numbers on permits and licenses. Also includes spoil/Borrow areas to be consistent with DEQ numbers on Permits and Licenses.

FACILITY DESCRIPTIONS

Facility Type: Type 111 Solid Waste Disposal

Facility Name: Daggett Sand & Gravel, 1016 E. Sheridan Rd., Lansing, MI

County: Ingham Location: Town: 4N Range: 2W Section(s): 3

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Daggett Sand & Gravel, Inc.

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

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

Site Size:

Total area of facility property:	10	acres
Total area sited for use:	6.4	acres
Total area permitted:	6.4	acres
Operating:	2-3	acres
Not excavated:	–	acres
Current capacity:	66,000	yds^3
Estimated lifetime:	7	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	7 or 8,000	☐ tons or ☐ yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: Pitsch Sanitary Landfill

County: Ionia Location: Town: 8N Range: 7 W Section(s): 7

Map identifying location included in Attachment Section: ☐ Yes (X) 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: Gary Pitsch , Pitsch Companies

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

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

Site Size:

Total area of facility property:	300	acres
Total area sited for use:	80	acres
Total area permitted:	80	acres
Operating:	20	acres
Not excavated:	60	acres
Current capacity:	150,000	(X) tons
Estimated lifetime:	30	years
Estimated days open per year:	312	days
Estimated yearly disposal volume:	100,000	(X) tons or ☐ yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: Taymouth Landfill

County: Saginaw Location: Town: 10N Range: 5E Section(s): 15

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Republic

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

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

Site Size:

Total area of facility property:	138.89	acres
Total area sited for use:	43	acres
Total area permitted:	25	acres
Operating:	15	acres
Not excavated:	10	acres
Current capacity:	1.3 Million	(X) yd.
Estimated lifetime:	7-8	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	216,000	( ) tons or(X) yds^3

(if applicable)
Annual energy production:

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

Final Height is 730 feet above sea Level.
120 feet above ground level
Grazing Live Stock after closure.

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: People Landfill

County: Saginaw Location: Town: 10 N Range: 5 E Section(s): 15

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Waste Management

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

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

Site Size:

Total area of facility property:	163	acres
Total area sited for use:	110	acres
Total area permitted:	29.1	acres
Operating:	2	acres
Not excavated:	100	acres
Current capacity:	15,301,641	ton or () yd.
Estimated lifetime:	20	years
Estimated days open per year:	254	days
Estimated yearly disposal volume:	1, 000	( ) tons or(X) yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	3.2	megawatts
Waste-to-energy incinerators:	N/A	megawatts

Only open on Monday 8 – 12 Noon

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal - Non-hazardous

Facility Name: Venice Park Recycling and Disposal Facility

County: Shiawassee Location: Town: 7N Range: 4E Section(s): 27

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)		Waste Types Received (check all that apply)	
(X)	open	(X)	residential
☐	closed	(X)	commercial
( )	licensed	(X)	industrial
☐	unlicensed	(X)	construction
( )	construction permit	(X)	contaminated soils
☐	open, but closure pending	(X)	special wastes *
		(X)	other: Non-hazardous liquids for solidification

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

Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street, street sweeping, sediment trap materials, asbestos.

Site Size:

Total area of facility property:	331	acres
Total area sited for use:	80	acres
Total area permitted:	69	acres
Operating:	41	acres
Not excavated:	2.5	acres
Current capacity:	1,300,000	(X) yd. Bank remaining
Estimated lifetime:	2.5	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	526,000	( ) tons or(X) yds^3

(if applicable)

Annual energy production:

Landfill gas recovery projects:	12,500	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal - Non-hazardous

Facility Name: Citizens Disposal, Inc.

County: Genesee Location: Town: 6 Range: 6 Section(s): 23

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Allied Waste Industries, Inc.

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

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

All special Waste requires prior review and approval including analytical data and waste profile – non – hazardous only

Site Size:

Total area of facility property:	300 +/-	acres
Total area sited for use:	300 +/-	acres
Total area permitted:	52	acres
Operating:	52	acres
Not excavated:	80	acres
Current capacity:	5.3mm	(X) yd.
Estimated lifetime:	25	years
Estimated days open per year:	300	days
Estimated yearly disposal volume:	.5mm	( ) tons or(X) yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	2.4	megawatts
Waste-to-energy incinerators:	N/A	megawatts

FACILITY DESCRIPTIONS

Facility Type: Municipal Solid Waste Landfill

Facility Name: Brent Run Landfill

County: Genesee Location: Montrose Twp. Town:9N Range: 5E Section(s): 23

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

(X) Public ( ) Private Owner: Republic

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

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

Sluge, Asbestos

Site Size:

Total area of facility property:	500	acres
Total area sited for use:	350	acres
Total area permitted:	106.5	acres
Operating:	38.91	acres
Not excavated:	67.56	acres
Current capacity:	14,000,000	(X) yd. In place
Estimated lifetime:	30 +	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	.400,000	( ) tons or(X) yds^3 in place

(if applicable)
Annual energy production:

Landfill gas recovery projects:	2	megawatts under development
Waste-to-energy incinerators:	N/A	megawatts

DATA BASE

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE

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

The following types of collection services are used within the County of Gratiot:

a) Collection by Contract with Municipality:
The cities of Alma, Ithaca and St. Louis and the Villages of Ashley, Breckenridge and Perrinton contract with private haulers to collect refuse from within the community's jurisdiction.

b) Agreements with Individual Households, Commercial or Industrial Establishments:
All refuse collected outside of the above mentioned areas, is collected by private contractors contracting directly with individuals. Collection generally takes place on a weekly basis with a majority of haulers picking up at curbside.

Recycling Centers:
Waste Management, a private, for profit company that receives, processes and markets the following source separated materials: newsprint, mixed office paper, computer paper, corrugated cardboard, chipboard/sacks, clear and colored container glass, HDPE plastic beverage containers, HDPE plastic containers for liquids, LD plastic film - pre and post consumer, ferrous metal, aluminum.

EVALUATION OF DEFICIENCIES AND PROBLEMS

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

The Solid Waste System in Gratiot County works effectively as is. Gratiot County does not have a disposal facility within its borders and continues to be dependent on exporting solid waste to landfills in neighboring counties. Future closures of these landfills could put pressure on Gratiot County to site a facility. Current conditions indicate that Gratiot County has sufficient capacity for the future. The lack of a disposal facility also means that waste haulers have to travel longer distances for final disposal at a specified landfill. The County Board of Commissioners is currently encouraging composting and recycling to reduce the amount of waste that would need to be hauled to a landfill. The County has stated it will allow 16 Transfer Stations, which would allow one in each Township, allowing the Townships to deal with the private sector on trash charges and Recycling issues if they choose to site a Transfer station in their Township. The Cities, Villages and some of the Townships recycle now. The effort is to have all the Townships recycling and to increase the number of participation in recycling through out the whole County.

DATA BASE

DEMOGRAPHICS

The following presents the current and projected population densities and centers for five and ten year periods, identification of current and projected centers of solid waste generation including industrial solid waste for five and ten year periods as related to the Selected Solid Waste Management System for the next five and ten year periods. 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.

The major existing transportation routes in Gratiot County are the four lane divided highway, which runs north and south through the center of the county and the heart of the population in Ithaca, Alma, St. Louis Corridor. Highway M-57 runs east and west through the southern portion of the county and is a major interstate connector. M - 46 runs east and west through the northern portion of the County. The existence of this highway provides Gratiot County with an excellent network of all-weather transportation facilities.

The operation of overloaded rubbish hauling vehicles has been a continuing concern of the Michigan Department of Transportation and local jurisdictions throughout the State. The population in 1988 was 40,079 and was projected to decrease to the year 2008 by .5%. The population did not decrease, but instead increased and is expected to increase even more for the next ten years.

There will be two more prisons completed in the year of 1999 that will add to the increase in St. Louis. The population of Gratiot County with the count of the Prison and the growth from the development and new sewers in the County has brought the population for the county to 44,083 for the year of 1998 and expected to grow by 5 percent. The Percent is for the next 5 years and the same in the next ten years. The current centers of solid waste generated including industrial solid waste is Alma, St. Louis and Ithaca where the industrial work takes place. The future of the solid waste generated for the next five and ten year periods will remain in those same areas, but will have an increase of possibly 5% due to the increase in the number of people in the work force and the increase in the residence in the county.

Municipalities	Current - 2000	5-yr - 2005	10 - yr - 2010
Alma City	9,368	9,836	10,304
Arcada Twp.	1,721	1,807	1,893
Ashley Village	537	563	589
Bethany Twp.	1,881	1,945	1,069
Breckenridge Village	1,349	1,416	1,483
Elba Twp.	1,441	1,513	1,585
Emerson Twp.	1,030	1,082	1,134
Fulton Twp.	2,192	2,302	2,412
Hamilton Twp.	502	527	552

Ithaca City	3,120	3,276	3,432
Lafayette Twp.	701	736	771
Newark Twp.	1,180	1,239	1,298
New Haven Twp.	998	1,048	1,098
North Shade Twp.	778	817	856
North Star Twp.	1,094	1,149	1,204
Perrinton Village	407	427	447
Pine River Twp.	2,140	2,247	2,354
St. Louis City	4,569	4,797	5,025
Seville Twp.	2,277	2,391	2,505
Sumner Twp.	2,266	2,379	2,492
Washington Twp.	1,827	1,918	2,009
Wheeler Twp.	3,005	3,155	3,305
Total Population	44,383	46,600	47,817

QUANTITY UNIT FACTORS FOR SOLID WASTE GENERATION
Based on Compilation of existing records (these are estimated figures)

Source	Factor
Residential (City & Village)	3.7 pounds/person/day
Residential (Rural)	0.75 pounds/person/day
Commercial	5.6 pounds/person/day
Industrial	10.60 pounds/employee/day
Alma College	1.50 pounds/student/day

The majority of the solid waste generated within Gratiot County is presently being disposed of in Genessee, Shiawassee, Saginaw and Clare Counties. Waste is also being hauled to Granger disposal in Clinton County and sparingly by some haulers as well as the Pitsch site in Ionia County.

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.

The last census of 1990 listed in the County Clerk's Booklet shows 39,982 for the total of all persons in the County and with the calculations we have done on the developed areas, the figure should be 44,383. There has been growth that was not anticipated with the new sewer improvements and the Renaissance Zones in the County, which has brought more employment to the County. There are four more small communities that are anticipating a new sewer system. This will make those areas more favorable to new potential home owners in those areas. All these actions, in turn, bring people to the county, seeking homes to live in to be closer to their work. The Recreation in the County is now being looked at to be more applying to residents. St. Louis, Alma and Ithaca have both grown so much it now supports multiple fast food places in those areas. The stretch of U.S. 27 that goes through the County is now being planned for a limited access highway and there are fast food restaurants that are being placed along the planned route.

It is expected that Alma, St. Louis and Ithaca areas will continue to be the three major urban population centers in the County. In addition to these major community centers, it is expected that the Villages of Breckenridge, Ashley, Perrinton, Middleton, Wheeler, Riverdale and Sumner will continue to function as small neighborhood community centers.

DATA BASE

SOLID WASTE MANAGEMENT ALTERNATIVES (attach additional pages as necessary)

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

Gratiot County will allow 16 transfer Stations to operate in the county if the facilities are consistent with the Plan.

The criteria set forth to evaluate the alternative system include technical feasibility, economic feasibility, energy consumption, production, land access, transportation, environmental impacts, public health effects, and public acceptability.

1. Current Solid Waste Management System

The current system involves the exporting of the waste to landfills. In the 1988 Update, the County intended to site a disposal facility within its borders. No facility has been sited and current landfill capacities outside the County has reduced the importance of siting.

2. Current system with increased emphasis on Resource Recovery Efforts

This alternative system would put renewed emphasis on resource recovery and waste reduction. Education on solid waste issues and more emphasis on resource recovery in general will be areas of concentration. Workshops on composting, buying recycled-content products, and waste reduction may be developed.

3. Recovery/Processing Facility Sited in Gratiot County

Siting a Materials Recovery Facility in the area, while continuing to export waste to landfills, is another alternative available to the County. Gratiot County does not have a MRF (Material Recovery Facility) to handle all the materials generated in the region. With more materials available, markets would be easier to locate not to mention being more efficient and cost effective to utilize. Such a facility would be sited, constructed and maintained by a private contractor.

4. Regional Transfer Station Sited in Gratiot County

The siting of some transfers station in Gratiot County would be a significant change from the

current state of waste disposal. The facility siting, construction and maintenance will be performed by a private contractor. The facility would provide Gratiot County with the ability to access the abundance of landfill capacity throughout the state. It would also provide opportunities for importation of waste from surrounding counties.

5. Regional Disposal Facility Sited in Gratiot County

The siting of a disposal facility means a significant change would occur with regard to current practices. The facility siting, construction and maintenance will be performed by a private contractor. The facility would provide Gratiot County with ample capacity for the planning period and provide opportunities for importation of waste from other counties.

Solid Waste Management Alternative Ranking

Criterion	System 1	System 2	System 3	System 4	System 5
Technical Feasibility	2	1	3	4	5
Economic Feasibility	3	1	4	2	5
Energy Consumption/Production	3	2	1	4	5
Land Access/Transportation	2	3	1	4	5
Environmental Impacts	1	5	3	2	4
Public Health Effects	1	4	3	2	5
Public Acceptability	1	5	3	2	4
Total Points	13	21	18	20	33
Ranking Order	1	4	2	3	5

Based on this system, the various alternatives were ranked as follow: (Most to least desirable, with 1 being the most & 5 being the least)
1) Exportation of waste with increased emphasis on resource recovery; 2) Exportation of waste with same level of resource recovery efforts; 3) Materials Recovery Facility sited in Gratiot County; 4) Regional Transfer Station sited in Gratiot County; 5) Regional Disposal Facility sited in Gratiot County.

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:

An essential part of any planning program is to evaluate alternatives, reviewing the advantages and disadvantages of each, determining their environmental impact and public acceptability, and providing a cost-effective analysis to determine which alternatives are economically feasible.

Numerous landfills have been identified that are capable and willing to dispose of all or portions of the Gratiot County solid waste. At the present time the County has only a couple transfer stations. The stations are privately owned and operated. Seven privately owned waste haulers operate in the county with three of those haulers providing recycling services.

The county will continue to support and encourage resource recovery options through the private operators and the Municipalities will continue to recycle, compost and hold household hazardous waste collections, farm pesticide collection programs.

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[5]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[6]
Gratiot	Newaygo			P	
Gratiot	Midland			P	
Gratiot	Bay			P	
Gratiot	Muskegon			P	
Gratiot	Allegan			P	
Gratiot	Barry			P	
Gratiot	Van Buren			P	
Gratiot	Kalamazoo			P	
Gratiot	Calhoun			P	
Gratiot	Jackson			P	
Gratiot	Berrien			P	
Gratiot	Cass			P	
Gratiot	St. Joseph			P	
Gratiot	Branch			P	
Gratiot	Hillsdale			P	
Gratiot	Lenawee			P	
Gratiot	Monroe			P	
Gratiot	Wayne			P	

SELEC[illegible]D SYSTEM

Gratiot	Livingston	P
Gratiot	Oakland	P
Gratiot	Lapeer	P
Gratiot	Clare	P
Gratiot	Gladwin	P
Gratiot	Mecosta	P
Gratiot	Isabella	P
Gratiot	Midland	P
Gratiot	Montcalm	P
Gratiot	Saginaw	P
Gratiot	Ottawa	P
Gratiot	Kent	P
Gratiot	Ionia	P
Gratiot	Clinton	P
Gratiot	Shiawassee	P
Gratiot	Genesee	P
Gratiot	Eaton	P
Gratiot	Ingham	P
Gratiot	Washtenaw	

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[7]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[8]
Unknown at this time					

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

[8] 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[9]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[10]
Gratiot	Newaygo			P	
Gratiot	Midland			P	
Gratiot	Bay			P	
Gratiot	Muskegon			P	
Gratiot	Allegan			P	
Gratiot	Barry			P	
Gratiot	Van Buren			P	
Gratiot	Kalamzoo			P	
Gratiot	Calhoun			P	
Gratiot	Jackson			P	
Gratiot	Berrien			P	
Gratiot	Cass			P	
Gratiot	St. Joseph			P	
Gratiot	Branch			P	
Gratiot	Hillsdale			P	
Gratiot	Lenawee			P	
Gratiot	Monroe			P	

SELECT SYSTEM

Gratiot	Wayne	P
Gratiot	Livingston	P
Gratiot	Oakland	P
Gratiot	Lapeer	P
Gratiot	Clare	P
Gratiot	Gladwin	P
Gratiot	Mecosta	P
Gratiot	Isabella	P
Gratiot	Midland	P
Gratiot	Montcalm	P
Gratiot	Saginaw	P
Gratiot	Ottawa	P
Gratiot	Kent	P
Gratiot	Ionia	P
Gratiot	Clinton	P
Gratiot	Shiawassee	P
Gratiot	Genesee	P
Gratiot	Eaton	P
Gratiot	Ingham	P
Gratiot	Washtenaw	P

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[11]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[12]
Unknown at this time					

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

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

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

SOLID WASTE DISPOSAL AREAS

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

Brent Run Genessee

Granger Waste Management Wood St.

Northern Oaks Recycling & Disposal Facility

Waste Management

Ottawa County Farms Landfill

People's Garbage Disposal, Inc.

Pitch Sanitary Landfill

United Waste of Central Michigan Landfill

Venice Park Development

Type A Transfer Facility:

Waste Management

Type B Transfer Facility:

Waste Management

Type III Landfill:

Daggett Sand & Gravel, Ingham Co.

Processing Plant:

None in Gratiot County

Incinerator:

NA

Waste Piles: N/A

Waste-to-Energy Incinerator:

NA

Other:

Because Gratiot County has 10 years of capacity listed in the Landfills above, identifying other facilities is not necessary (this does not preclude waste from going to other facilities in Counties specified in the plan).

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste 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: (X) Yes ☐ No

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

☐ Public (X) Private Owner: Waste Management of Michigan < Inc.

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

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

WWTP filter cake, sludge

Site Size:

Total area of facility property:	160	acres
Total area sited for use:	76	acres
Total area permitted:	76	acres
Operating:	19	acres
Not excavated:	57	acres
Current capacity:	8,755,100	☐ tons or (X)yds^3
Estimated lifetime:	43	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	409,000	☐ tons or (X) yds^3

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11
Facility Name: Granger Grand River Avenue Landfill

County: Clinton Location: Town: 5N Range: 3W Section(s): 29

Map identifying location included in Attachment Section: (X) Yes ☐ No

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

☐ Public (X) Private Owner: Granger Land Development Co.

Operating Status (check)		Waste Types Received (check all that apply)	
(X)	open	(X)	residential
☐	closed	(X)	commercial
(X)	licensed	(X)	industrial
☐	unlicensed	(X)	construction & demolition
(X)	construction permit	(X)	contaminated soils
☐	open, but closure	(X)	special wastes *
☐	pending	(X)	other: Type 111 Waste

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

Site Size:

Total area of facility property:	180.9	acres
Total area sited for use:	120.9	acres
Total area permitted:	85.7	acres
Operating:	54.1	acres
Not excavated:	31.6	acres
Current capacity:	7,617,000	Air yds^3
Estimated lifetime:	32	years
Estimated days open per year:	300	days
Estimated yearly disposal volume:	600,000	gate yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	4.0	megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: Granger Wood Street Landfill

County: Clinton & Ingham Location: Town: 5N & 4N Range: 2W Section(s): 34 & 3

Map identifying location included in Attachment Section: (X) Yes ☐ No

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

☐ Public (X) Private Owner: Granger Waste Management Company

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

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

Site Size:

Total area of facility property:	302.8	acres
Total area sited for use:	194.8	acres
Total area permitted:	104.3	acres
Operating:	49.5	acres
Not excavated:	54.8	acres
Current capacity:	10,981,000	Air yds^3
Estimated lifetime:	34	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	600,000	Gate yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	3.2	megawatts
Waste-to-energy incinerators:		megawatts

*1: Includes Acres of separate Paulson Street Facility to be consistent with DEQ numbers on permits and licenses. Also includes spoil/Borrow areas to be consistent with DEQ numbers on Permits and Licenses.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 111 Solid Waste Disposal

Facility Name: Daggett Sand & Gravel, 1016 E. Sheridan Rd., Lansing, MI

County: Ingham Location: Town: 4N Range: 2W Section(s): 3

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Daggett Sand & Gravel, Inc.

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

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

Site Size:

Total area of facility property:	10	acres
Total area sited for use	6.4	acres
Total area permitted:	6.4	acres
Operating:	2-3	acres
Not excavated:		acres
Current capacity:	66,000	(X) yds^3
Estimated lifetime:	7	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	7 or 8,000	☐ tons or ☐ yds^3

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: Pitch Sanitary Landfill

County: Ionis Location: Town: 8N _Range: 7W Section(s): 7

Map identifying location included in Attachment Section: ☐Yes (X)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: Gary Pitsch

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

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

Site Size:

Total area of facility property:	300	acres
Total area sited for use	80	acres
Total area permitted:	80	acres
Operating:	20	acres
Not excavated:	60	acres
Current capacity:	150,000	(X) tons or☐ yds^3
Estimated lifetime:	30	years
Estimated days open per year:	312	days
Estimated yearly disposal volume:	100,000	(X) tons or ☐yds^3

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

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: Taymouth Landfill

County: Saginaw Location: Town: 10N Range: 5E Section(s): 15

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Republic

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

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

Site Size:

Total area of facility property:	138.89	acres
Total area sited for use:	43	acres
Total area permitted:	25	acres
Operating:	15	acres
Not excavated:	10	acres
Current capacity:	1.3 Million	(X) yd.
Estimated lifetime:	7-8	years
Estimated days open per year:	260	days
Estimated yearly disposal volume:	216,000	( ) tons or(X) yds^3

(if applicable)
Annual energy production:

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

Final Height is 730 feet above sea Level.
120 feet above ground level
Grazing Live Stock after closure.

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: People Landfill

County: Saginaw Location: Town: 10 N Range: 5 E Section(s): 15

Map identifying location included in Attachment Section: (X) Yes (X)No

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

☐Public (X)Private Owner: Waste Management

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

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

Site Size:

Total area of facility property:	163	acres
Total area sited for use	110	acres
Total area permitted:	29.1	acres
Operating:	2	acres
Not excavated:	100	acres
Current capacity:	15,301,641	( ) tons or☐ yds^3
Estimated lifetime:	20	years
Estimated days open per year:	254	days
Estimated yearly disposal volume:	100,000	( ) tons or (X) yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	3.2	megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal

Facility Name: Venice Park Recycling and Disposal Facility

County: Shiawassee Location: Town: 7N Range: 4E Section(s): 27

Map identifying location included in Attachment Section: (X)Yes ( )No

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

☐Public (X)Private Owner: Waste Management of Michigan, Inc.

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

*** Explanation of special wastes, including a specific list and/or conditions:**
Contaminated soils, sludges, filter cake, process wastes, coal ash, foundry sand, chemical containing equipment, used containers, treated medical waste, contaminated demolition debris, street, street sweeping, sediment trap materials, asbestos.

Site Size:

Total area of facility property:	331	acres
Total area sited for use	80	acres
Total area permitted:	69	acres
Operating:	41	acres
Not excavated:	2.5	acres
Current capacity:	1,300,000	( ) tons or (X) yds^3
Estimated lifetime:	2.5	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	526,000	( ) tons or (X)yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	12,500	megawatts
Waste-to-energy incinerators:		megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Type 11 Solid Waste Disposal - Non-hazardous

Facility Name: Citizens Disposal, Inc.

County: Genesee Location: Town: 6 Range: 6 Section(s): 23

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

☐ Public (X) Private Owner: Allied Waste Industries, Inc.

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

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

All special Waste requires prior review and approval including analytical data and waste profile – non – hazardous only

Site Size:

Total area of facility property:	300 +/-	acres
Total area sited for use:	300 +/-	acres
Total area permitted:	52	acres
Operating:	52	acres
Not excavated:	80	acres
Current capacity:	5.3mm	(X) yd.
Estimated lifetime:	25	years
Estimated days open per year:	300	days
Estimated yearly disposal volume:	.5mm	( ) tons or(X) yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	2.4	megawatts
Waste-to-energy incinerators:	N/A	megawatts

SELECTED SYSTEM

FACILITY DESCRIPTIONS

Facility Type: Municipal Solid Waste Landfill

Facility Name: Brent Run Landfill

County: Genesee Location: Montrose Twp. Town:9N Range: 5E Section(s): 23

Map identifying location included in Attachment Section: (X) Yes ( ) No

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

(X) Public ( ) Private Owner: Republic

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

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

Sluge, Asbestos

Site Size:

Total area of facility property:	500	acres
Total area sited for use:	350	acres
Total area permitted:	106.5	acres
Operating:	38.91	acres
Not excavated:	67.56	acres
Current capacity:	14,000,000	(X) yd. In place
Estimated lifetime:	30 +	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	.400,000	( ) tons or(X) yds^3 in place

(if applicable)
Annual energy production:

Landfill gas recovery projects:	2	megawatts under development
Waste-to-energy incinerators:	N/A	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.

Solid waste collection service is provided by private waste haulers in Gratiot County. There are currently 7 - 10 waste haulers providing service to Gratiot County.

Service Provider	Area	Payment	Facility
Waste Management & a Transfer Station	Gratiot Co.	customer	Northern Oaks Saginaw & Shiawassee
K & K Disposal	Gratiot Co.	customer	Central Landfill
Dent Refuse	Gratiot Co.	customer	Northern Oaks
Sunrise Disposal	Gratiot Co.	customer	Shiawassee & Clinton
Sunset Disposal	Gratiot Co.	customer	Montcalm
S. K. Disposal Services	Gratiot Co.	customer	Saginaw Valley Landfill
Tri County Refuse	Gratiot	customer	Shiawassee & Clinton

RESOURCE CONSERVATION EFFORTS:

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

Effort Description	Est. Diversion Tons/Yr.		
	Current	5th yr	10th yr
Use of Wood chips as mulch	*	*	*
Use of e-mail to cut down on paper	*	*	*
Use of biosolids as soil conditioner	*	*	*
Reconditioning of pallets & barrels	*	*	*
Reusing useful products	*	*	*
Agriculture Hazardous Waste collection	*	*	*
* Not Available			

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

WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS:

Volume Reduction Techniques

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

Technique Description	Est. Air Space Conserved Yds^3/Yr		
	Current	5th yr	10th yr
Private owned companies do this we do not have those figures			

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

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.

Many materials are currently recycled and composted from the waste stream of Gratiot County.
Paper, plastic, glass and metals are the primary items collected for recycling. Yard waste and leaves make up the bulk of the materials utilized for composting.
The County goal is to divert 5% of the waste from the stream by the year 2000 and increase it by 5% each five years.

Materials	2000	2005	2010
Paper	30,000 Cu Yd	31,500 Cu Yd	33,000 Cu Yd
Glass	15,100 Cu Yd	15,855 Cu Yd	16,610 Cu Yd
Metals	6,000 Cu Yd	6,300 Cu Yd	6,600 Cu Yd
Plastics	1,100 Cu Yd	1,650 Cu Yd	2,200 Cu Yd
Compostables	30,000 Cu Yd	31,500 Cu Yd	33,000 Cu Yd
Other	1,200 Cu Yd	1,260 Cu Yd	1,320 Cu Yd

Seville, New Haven, Alma, St. Louis, Ithaca , Breckenridge and Ashley have a recycling program. Being a rural county, the country areas compost and we sometimes don't have knowledge of that composting taking place.

All the Cities and Villages in the County compost yard waste and leaves, etc. Private backyard composting opportunity can be a significant source of waste reduction in the County.

TABLE III-1

RECYCLING:

Program Name	Service Area[13]	Public or Private	Collection Point[15]	Collection Frequency[16]	Materials Collected[17]	Program Management Responsibilities[14] Development	Operation	Evaluation
Timber Country Mobile Home Park	Park	P	d	w		5	5-6	
Meadow Lane	Park	P	d	w	a,b,c,e	5	5-6	
Seville	Twp.	P	d	w	a-b-c-e	5	5-6	
New Haven	Twp.	P	d	w	a-b-c-e	5	5-6	
Ithaca	City	P	c	w	a-b-c-e	5	5-6	
Alma	City	P	c	w	a-b-c-e	5	5-6	
St Louis	City	P	c	w	a-b-c-e	5	5-6	
Breckenridge	Village	P	c	w	a-b-c-e	5	5-6	

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

[13] 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.

[14] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 29); 5 = Private Owner/Operator; 6 = Other (Identified on page 29).

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

[16] 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.

[17] 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 30.

TABL II-2

COMPOSTING:

Program Name	Service Area[18]	Public or Private	Collection Point[20]	Collection Frequency[21]	Materials Collected[22]	Program Management Responsibilities[19] Development	Operation	Evaluation
Alma	City	P	c	w	g-l-w	5	5	
St Louis	City	p	c	w	g-l-w	5	5	
Ithaca	City	p	c	w	g-l-w	5	5	
Breckenridge	Village	p	c	w	g-l-w	5	5	
General	Rural	p	o	d	all	p	5	

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

[18] 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.

[19] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 29); 5 = Private Owner/Operator; 6 = Other (Identified on page 29).

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

[21] 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.

[22] 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 30.

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[23]	Public or Private	Collection Point[25]	Collection Frequency[26]	Materials Collected[27]	Program Management Responsibilities[24] Development	Operation	Evaluation
Spray Company's	Rural Agr.	p	d	Wi	containers		4	
Michigan Department of Agriculture has								
A listing of 12 sites in Michigan for farmer to dispose of their								
Hazardous containers location is on file in the extension office		p	c	sp-su-fa-wi				

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

[23] 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.

[24] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 29); 5 = Private Owner/Operator; 6 = Other (Identified on page 29).

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

[26] 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.

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

TABLE III-4

PROPOSED RECYCLING:

Program Name (if known)	Service Area[28]	Public or Private	Collection Point[30]	Collection Frequency[31]	Materials Collected[32]	Program Management Responsibilities[29] Development	Operation	Evaluation
None at this time								

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

[28] 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.

[29] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 29); 5 = Private Owner/Operator; 6 = Other (Identified on page 29).

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

[31] 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.

[32] 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 30.

TABLE III-5

PROPOSED COMPOSTING:

Program Name, (if known)	Service Area[33]	Public or Private	Collection Point[35]	Collection Frequency[36]	Materials Collected[37]	Program Development	Management Responsibilities[34] Operation	Evaluation
None at this time								—
								—

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

[33] 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.

[34] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 29); 5 = Private Owner/Operator; 6 = Other (Identified on page 29).

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

[36] 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.

[37] 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 30.

TABLE III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

Program Name, (if known)	Service Area[38]	Public or Private	Collection Point[40]	Collection Frequency[41]	Materials Collected[42]	Program Management Responsibilities[39] Development	Operation	Evaluation
Agricultural Spray containers	Gratiot County	Private	d	seasonal	ps	5	5	

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

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[38] 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.

[39] Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Group (Identified on page 29); 5 = Private Owner/Operator; 6 = Other (Identified on page 29).

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

[41] 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.

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

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES:

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

Environmental Groups:

Composting Programs

Alma
Ithaca
Breckenridge
Ashley
Perrinton

Other:

Yard Waste from St. Louis is taken to the farms and placed on the fields for composting.

SELECTED SYSTEM

.OJECTED 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:	2.71	unknown		G. GRASS AND LEAVES:	95011	99958	104715
B. NEWSPAPER:	6.34	unknown		H. TOTAL WOOD WASTE:	unknown		
C. CORRUGATED CONTAINERS:	6.40	unknown		I. CONSTRUCTION AND DEMOLITION:	unknown		
D. TOTAL OTHER PAPER:	1.			J. FOOD AND FOOD PROCESSING:	unknown		
E. TOTAL GLASS:	3.92	unknown		K. TIRES:	unknown		
F. OTHER MATERIALS:				L. TOTAL METALS:	unknown		
F1.				F3.			
F2				F4			

MARKET AVAILABILITY FOR COLLECTED MATERIALS:

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

Collected Material:	In-State Markets	out-of-state Markets	Collected Material	In-State Markets	out-of-state Markets
A. TOTAL PLASTICS:	**	**	G. GRASS AND LEAVES:	**	
B. NEWSPAPER:	**	**	H. TOTAL WOOD WASTE:		
C. CORRUGATED CONTAINERS:	**	**	I. CONSTRUCTION AND DEMOLITION:		
D. TOTAL OTHER PAPER:	**	**	J. FOOD AND FOOD PROCESSING		
E. TOTAL GLASS:	**	**	K. TIRES:	**	**
F. OTHER MATERIALS:			L. TOTAL METALS:		
F1TEXTILES.	**	**	F3. **	**	
F2.			F4.		

**Private industry decides where to market

MARKET AVAILABILITY FOR COLLECTED MATERIALS

Market availability for recyclable material is constantly changing. Material being bought outright, and recycling programs evolving and altering their marketing methods, it is almost impossible to identify each market available for materials generated. Gratiot County does not operate a recycling program, so each organization can market is materials in the manner in which it chooses. Private industry decides where to market the collected materials for recycling. One resource that is constantly used is the MDEQ's Recycled Material Market Directory.

Market/Broker	Material(s) Accepted/Processed
Louis Padnos Iron & Metal, Inc.	paper products, metals
Nu-Wool	paper products
Friedland Industries	paper products, plastic, metal, glass
Michigan Polymer Reclaim	plastic
Clean tech	plastic
Fort James Paper	paper products
Applegate Insulation	paper products
Owens-Illinois (limited)	glass
Spartan Stores Reclamation Center	corrugated cardboard
Recycle America - Waste Management, Inc.	paper products, plastic, metal, glass
Glass Recyclers, Ltd.	glass
Browning-Ferris Industries	paper products, plastic, metal, glass
Dart Container Corporation	polystyrene foam
Franklin Iron & Metal	metal
Marshall Iron & Metal	metal
CCR & Co.	paper products, plastic
Lubbers Resource System, Inc.	paper products, plastic
Krell Paper Stock, Inc.	paper products
Performance Polymers	plastic
Plasber, Inc.	plastic
American Commodities, Inc.	plastic
M.H. Textiles, Inc.	textiles
Cole Tire, Inc.	tires
Huffman Tire Co.	tires
Granger Recycling Center	Paper Products, Plastic, Metal, glass
Granger Composting Center	grass, leaves, brush

SELECTED SYSTEM

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

It is often necessary to provide educational and informational programs regarding the various components of a solid waste management system before and during its implementation. These programs are offered to avoid miscommunication, which results in improper handling of solid waste, and to provide assistance to the various entities that 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 Recycling	Radio & Newspaper	(P) General Public	EX-OO-HD-DPA
2 Composting	Radio & Newspaper	(P) General Public	EX-OO-HD-DPA
3 HHW	Radio & Newspaper	(P) General Public	EX-OO-HD-DPA
4 Resource Con.	Radio & Newspaper	(P) General Public	EX-OO-HD-DPA
5 Volume Reduc.	Radio & Newspaper	(P) General Public	EX-OO-HD-DPA

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

[2] tified by w = workshop; r = radio; t = television; n = newspaper; o = organizational newsletters; f = flyers; = 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.

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

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
Composting	On going
Recycling	On going
Reduction of Waste	On going
Looking for markets for reused material	On going
Solid Waste Collections	On going
Increase Public Education on above items	On going

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.

None are prohibited.

SITING CRITERIA AND PROCESS

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

The Solid Waste Review Committee will evaluate the project for its compliance and consistency with the criteria established in the Solid Waste Management Plan.

BOC - (Board of Commissioners)
The BOC is responsible for verifying that the SWMC reviewed the proposal(s) in accordance with the siting criteria contained in the Plan. The BOC is responsible for making a determination of consistency or inconsistency in accordance with the siting mechanisms contained in the Plan. The Director of the Michigan Department of Environmental Quality (MDEQ) will make the final determination of consistency as past of the review of a construction permit application for the facility. Proposals found to be consistent by the Director of the MDEQ will thereby be included in the Plan upon issuance of a construction permit by the MDEQ. Proposals found to be inconsistent will not be included in the Plan.

SECTION 1 SWRC APPOINTMENT PROCESS
SWRC - (Solid Waste Review Committee)
The SWRC is appointed by the Gratiot County Board of Commissioners. Appointments to the Committee are served in two-year terms. Membership of this Committee includes:

1 - Solid Waste Industry Interest
1 - Planning Commission Interest
2 - Municipal Representatives
(from different municipalities)
2 - County Commissioners
1 - County Health Department
2 - General Public

If the proposed host community is not already represented by one or more of the appointment by the host community (subject to the BOC approval) to participate in the review process. The Host Community Representative's term shall last for the duration of the facility review.

SELECTED SYSTEM

SECTION 11 - COMMITTEE PROCEDURES

The SWRC will adopt its own by-laws and establish its own Chair. Proposals submitted to the SWRC may not be altered or amended once the Committee has began deliberations. The SWRC and BOC shall not amend or alter these criteria and procedures outlined in the Solid Waste Review Process. If at the time a proposal is submitted to the DPA of the County, Gratiot County can demonstrate 66 months of disposal capacity for all waste generated as identified by a currently approved capacity certification, the County may, at the County Board of Commissioners discretion, refuse to allow this siting mechanism to be used. The Capacity of the Landfills available to Gratiot County will be checked by the DPA for available space for Gratiot to export to before a site will be considered.

If at the time a proposal is submitted to the County, the SWRC has not been appointed at the end of the 30-day period, the BOC will proceed with the review of the proposal.

SECTION 111 - GENERAL PROCEDURES FOR SUBMITTAL AND DETERMINATION OF CONSISTENCY

A PROPOSAL FOR Determination of Consistency with the Gratiot County Solid Waste Management Plan shall be submitted to the staff of the Designated Planning Agency.

To be considered administratively complete, the proposal must include all of the information required, all necessary documentation demonstrating compliance with the criteria, and a written description of the proposed facility and its intended use. Addition information may be submitted by the developer to elaborate on any significant points of the proposal.

The SWRC and the DPA staff shall determine if the proposal is administratively complete within 15 calendar days after receipt of the proposal. If a proposal does not contain information or documentation required, it shall be returned to the developer as administratively incomplete. Written notification, listing all missing items, will be sent by the SWRC or DPA staff to the developer. All fees paid to the County by the developer for consistency review shall also be refunded.

Application fees shall be established annually by resolution. The fee schedule will be available at the Department the Designated Planning Agency and at the County Administrator's Office. The application fee will be used for the project review. Any portion of the fee not used will be returned to the applicant. Application fees for proposals found to be administratively incomplete shall be fully refunded to the developer.

The review period for a proposal begins on the day the proposal is determined to be administratively complete by SWRC staff, or at the end of 15 calendar days after receipt or proposal if the SWRC staff fails to act as specified above. The host community, the SWRC, and the County Board of Commissioners shall be informed of the starting date of the review period within the first five working days of the receipt of the proposal.

An informational meeting shall be scheduled by the SWRC. The pı meeting is to present the proposal as submitted and to orient citizens ss.

45 days - 1/-4/-00

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No formal testimony in support or opposing will be received. An opportunity for public comment may be provided by the SWRC at the beginning or the end of the meeting.

Notice of the meeting shall be published no less than seven calendar days before the meeting. Every municipality in the County shall receive a notice of the meeting no less than seven calendar days before the meeting. At least seven calendar days prior to the meeting, SWRC staff will attempt to notify all property owners and building occupants within 300 feet of all properties owned by or under option to the proponent that are part of the proposal.

Notice of the SWRC's decision shall be transmitted to every community in the County, and the developer, within five working days of the action.

If the SWRC fails to make a recommendation to the BOC on consistency of the proposal within the seven day tem period, then the BOC shall review the proposal(s) in accordance with the provisions of the siting criteria in the Plan, and within 45 calendar days, find the proposal (s) consistent or inconsistent with the Plan. If the SWRC fails to execute any of the assigned responsibilities or misses any of the established deadlines, the process immediately proceeds to the BOC for completion. Failure by the SWRC to act in accordance with their deadlines, the BOC assumes responsibility for reviewing a proposal(s), then the remaining deadlines and procedures imposed on the SWRC are transferred to the BOC. The BOC will have 15 calendar days to set schedules necessary to complete the remaining responsibilities for proposal(s) review.
Within 45 calendar days after the BOC receives a recommendation from the SWRC on a proposal's consistent or inconsistent with the Plan in accordance with the procedures approved as part of the this plan. If the BOC fails to act within that time, the proposal(s) shall be considered by the County to be consistent with the Plan. Final determination of consistency shall be made by the Director of the MDEQ.

Site Criteria Application Requirements

Each application shall contain all of the following information:

1. Name, address, and telephone number for the applicant, including partners and other ownership interests, the property owner of the site, and consulting engineers and geologists that will be involved in the project, a designated contact person for the facility developer, if different from the applicant, and shall specify the type of facility being proposed.

2. Information describing the site location and orientation, including a legal description of the facility area, a site map showing all roadways and principal land features within two miles of the site, a topographic map with contour intervals of no more than ten feet for the site, a map and description of all access roads showing their location, type, and surface material, proposed access point to the facility, haul route from access roads to the nearest state trunk line, and a current map showing the zoning of the proposed site and surrounding zoning, domiciles, public and private water supplies, and present usage of all property within one mile of the site.

SELECTED SYSTEM

3. A description of the current site use, a map showing the locations of all structures within 1,200 feet of the perimeter of the site, the location of all existing utilities, the location of 100 - year floodplain (as defined by Rule 323.311 of Administrative Rules of Part 31, Public Act 451, as amended) within 1,200 feet of the site, location of all wetlands (as defined by Part 303, of Act 451, as amended) within 1,200 feet of the site, and the site soil types and general geological characteristices.

4. A description of the proposed site and facility design.

5. A description of the proposed operation of the facility, including information concerning the planned annual usage, anticipated sources of solid waste, and the facility's life expectancy.

To be found consistent with the Plan, all proposed solid waste disposal facilities must comply with the consistency criteria below:

1. The solid waste disposal facility shall not be located closer than 500 feet from residentially zoned property, public parks, and public or private schools existing at the time of submission of the application.

2. The solid waste disposal facility, or active work area of a facility shall not be closer than 500 feet from the adjacent property lines, road right-of-way, inland lakes and perennial streams (provided, however, that these requirements shall not apply to a facility located in an industrial zoning district). The 500 feet distance will be measured from the nearest operating point of the facility. An "inland lake and stream" means a natural or artificial lake, pond or impounding; a river, stream or creek which may or may not be serving as a drain as defined by the Drain Code of 1956, Public Act 40 of 1956; or any other body of water that has definite banks, a bed and visible evidence of a continued occurrence of water.

3. The proposed facility shall not be located in a 100 year floodplain, as defined by Rule 323.311 of the Administrative Rules of Part 31, Act 451, as amended.

4. The proposed facility shall not be located in a wetland regulated by Part 303, of Act 451, as amended, unless a permit is issued.

5. The proposed facility shall not be constructed on farmland and open space preservation lands enrolled under Part 361 of Act 451, as amended.

6. The proposed facility shall not be located in an area defined in Section 32301 of Part 323, Shore lands Protection and Management, Act 451, as amended, or in areas of unique habitat, as defined by the Department of Natural Resources Natural Features Inventory.

7. The proposed facility shall not be located in an area of groundwater recharge, as defined by the United States Geologic Survey or in a wellhead protection area, as approved by the DEQ. A wellhead protection area is defined as the surface and subsurface area surrounding a water well

field supplying a public water system through which contaminants are reasonably likely to move toward and reach such water well or well field. In effect, the wellhead protection area is the "capture area" within which pollutants can readily reach public drinking water supplies. The applicant shall submit a signed statement stating the facility is not in a groundwater recharge area or wellhead protection area.

8. The proposed facility shall not be located in a designated historic or archeological area, as defined by the State Historical Preservation Officer.

SOLID WASTE MANAGEMENT COMPONENTS[43]

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.

The following entities are responsible for administration, enforcement, monitoring and updating of Gratiot County Solid Waste Management Plan.

Designated Planning Agency (DPA) The Gratiot County Board of Commissioners have accepted responsibility for county wide solid waste management activities. The Board of Commissioners have appointed the Designated Planning Agency as the Agency to implement the Solid Waste Management Plan.

Priorities include:

1. Recommending and overseeing the implementation of specific procurement and operational policies which will ensure that Gratiot County is reducing, reusing, recycling and composting.
2. Participating in discussions with the surrounding counties concerning potential regional solid waste programs (including household hazardous waste collections.)
3. Keeping current on new laws which are developed to regulate or control solid waste handling.
4. Monitoring, updating and amending the Solid Waste Management Plan as necessary.
5. Reporting to the Department of Public Works at each meeting.

[43] Components or subcomponents may be added to this table.

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 - County Commissioners, the Designated Planning Agency, citizens, businesses, and industries

Product Reuse - County Commissioner, the Designated Planning Agency, citizens, businesses and industries

Reduced Material Volume - County Commissioner, the Designated Planning Agency, citizens, businesses, and industries

Increased Product Lifetime - County Commissioners, the Designated Planning Agency, citizens, businesses, and industries

Decreased Consumption - County Commissioners, the Designated Planning Agency, citizens, businesses, and industries

Resource Recovery Programs:

Composting - Municipalities, County Commissioners, the Designated Planning Agency and residents.

Recycling - Municipalities, County Commissioners, the Designated Planning Agency, residents, businesses, industries, and private solid waste industry.

Energy Production - Private Companies

Volume Reduction Techniques:

County Commissioners, the Designated Planning Agency, all residents, businesses, and industries through voluntary efforts.

Collection Processes:

Private Companies

SELECTED SYSTEM

Transportation:

Private Companies

Disposal Areas:

Processing Plants - Private Companies

Incineration - NA

Transfer Stations - Private Companies

Sanitary Landfills - Private Companies

Ultimate Disposal Area Uses:
Private Companies

Local Responsibility for Plan Update Monitoring & Enforcement:
County Commissioners and the Designated Planning Agency

Educational and Informational Programs:
County Commissioners and the Designated Planning Agency
MSU Extension Office
Health Department
Private Sector

Documentation of acceptance of responsibilities is contained in Appendix D.

LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

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

☐ 1. Section 11538.(8) and rule 710 (3) of Part 115 prohibits enforcement of all County and local ordinances and regulations pertaining to solid waste disposal areas unless explicitly included in an approved Solid Waste Management Plan. Local regulations

and ordinances intended to be part of this Plan must be specified below and the manner in which they will be applied described.

_____

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

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: _____

F. Geographic area/Unit of government: _____

Type of disposal area affected: _____

Ordinance or other legal basis: _____

Requirement/restriction: _____

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

☐ Additional listings are on attached pages.

CAPACITY CERTIFICATIONS

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

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

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

The DPA will be responsible for compiling information and completing the MDEQ Annual County Solid Waste Disposal Capacity Certification June 30 of each year.
Facilities that are being utilized, and legally allowable under this Plan, will be researched for remaining capacity. Upon completion of the form and a more than 66 month disposal capacity available to the County, the County may refuse to allow the siting procedure to be used.

The total waste that may be generated in Gratiot County that would need to be taken to a landfill is 29,270.33 tons. Listed in section D-3 are letter from facilities stating they will except the waste from Gratiot County for the next 2 to 20 years.
Central Sanitary Landfill has 373,428 current capacity, with 2 years estimated life.
Northern Oaks of Clare County has 8,755,100 current capacity with 43 years estimated life left.
Brent Run Landfill with 30,000 ton per year for Gratiot County for at least 20 years.

Central – Montcalm
OK - in Plan

N. Oaks – Clare
OK - in draft

Brent Run – OK - letter
Genesee in the back

APPENDIX

ADDITIONAL INFORMATION

REGARDING THE

SELECTED

SYSTEM

EVALUATION OF RECYCLING

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

The best system for the County still remains exporting Solid Waste out of the County, because of the Landfills that are available for the Gratiot County trash to be hauled to. The private operators have service available to the residence that helps keep the cost down for the county. The capacity available to Gratiot County far exceeds the space needed for the waste from within the county.

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:
List below the types and volumes of material available for recycling or composting.
Many materials are currently recycled and composted from Gratiot County's waste stream. Paper, plastics, glass and metals make up the primary items collected for recycling, while leaves and yard waste make up the bulk of materials utilized for composting.

The Municipalities that have contracted the Trash collection and recycling has the recycling features available through the company they have contracted with.

Residences that have trash pickup have the option to take their recyclables to a MRF station in St Johns or Mt Pleasant.

These figures are estimates.

Paper - volume	30,000 cu yd	per year
Glass - volume	15,100 cu yd	per year
Metals - volume	6,000 cu yd	per year
Plastics - volumes	1,100 cu yd	per year
Composting - volumes	30,000 cu yd	per year

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

The County solid waste handling system does not include getting involved in the equipment selection or location of existing or proposed recycling programs. Recycling opportunities are planned and put together by the municipalities involved and the waste hauler with whom the contract is signed.

Equipment Selection

Existing Programs:

Gratiot County has (2) trailers for hauling Recyclables to a transfer station, the Townships use one of the trailers for hauling recyclables and the other trailer is used by the Cities. The Sheds are placed in Townships and at Trailer Parks, and are used for placing Recyclabes in them for the service provided by the Trash pickup Company.

The Agriculture companies provide Pesitcide container up for the Agricutural people so those do not get into the trash pickup.

Proposed Programs:

Site Availability & Selection

Composting Operating Parameters:

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

Existing yard waste management programs are operated at the municipal level and are included on page 1-4 of the plan.

Existing Programs:

Program Name:	pH Range	Heat Range	Other Parameter	Measurement Unit

Composting in Gratiot County falls into three distinct categories, private, local-unit and backyard composting. Private companies monitor their own composting programs and local-unit programs typically utilize chipping and shredding of materials to use the majority of material as mulch. Leaf collections performed by municipalities are either contracted out or placed in cold-piles for composting. Backyard techniques are mainly cold-pile composting and becomes an issue of monitoring for the individual homeowner. Therefore no operating parameters are planned to be used in the County for composting programs.

Proposed Programs:

Program Name	pH Range	Heat Range	Other Parameter	Measurement Unit

COORDINATION EFFORTS:

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

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

Efforts to avoid conflict with other laws, ordinances, conditions, etc. will be maximized so that the Solid Waste Management Plan can be an effective tool for solid waste management in the County. Where applicable, coordination will take place to adapt considerations in the Plan to concur with these other conditions. Past experience indicates that such coordination will be minimal, or non-existent, within the County. However, the Plan will be perpetually monitored to make corrections and/or modifications where they are deemed necessary.

There are currently no existing arrangements that pertain to the Gratiot County Solid Waste Management Plan. However, there is the potential for such arrangements to be entered into in the future as regulations and situations evolve in the County, State and Country. Future considerations will be based on the necessity for an arrangement to allow for Plan consistency. As the Designated Planning Agency for the Plan, the DPA will be responsible for developing and enforcing of these arrangements. Ultimate responsibility for development, approval and enforcement, however, lies with the Gratiot County Board of Commissioners.

COSTS & FUNDING:

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

System Component[1]	Estimated Costs	Potential Funding Sources
Resource Conservation Efforts	Unknown	Unknown
Resource Recovery Programs	Unknown	Unknown
Volume Reduction Techniques	Inknown	Private industry is the leader in this area in the County.
Collection Processes	Unknown	Muniscapalites and rural areas
Transportation	Unknown	Townships, Cities and populated areas
Disposal Areas	Unknown	Private Business
Future Disposal Area Uses	Unknown	Landfill owners will handle
Management Arrangements	Unknown	Unknown
Educational & Informational Programs	estimated $5,000.	Public education through television radio and schools

[1] These components and their subcomponents may vary with each system.

EVALUATION SUMMARY OF THE SELECTED SYSTEM:

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

Gratiot County's selected solid waste management system was evaluated according to the guidelines set forth by the MDEQ, and from previous experience with the 1988 Plan Update. Each alternative reviewed was determined to be technically and economically acceptable. In addition each component of the selected system was determined to be feasible and acceptable for the County to employ.

It was determined that the current system in place was adequate for managing Gratiot County's solid waste, but that there was room for improvement in the areas of resource recovery. Therefore, more emphasis will be placed on education and making efficient use of the programs that are currently working to reduce the need for landfill space outside of the County.

No real impediments are present that would hinder the selected systems from continuing to function. The fact that many counties are allowing waste to flow freely, between them and the private sector handling all waste collection in the County, creates even fewer difficulties than were present in the past.

ADVANTAGES AND DISADVANTAGES OF THE SELECTED SYSTEM:

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

ADVANTAGES:

1. Major changes to the current system are unnecessary for implementation.

2. Provides ample disposal capacity for the 10 year planning period.

3. Retains private industries freedom to conduct business in the County and surrounding area.

4. Provides for a freer-flow of solid waste among counties in Mid-Michigan.

5. Does not require the siting of a new disposal facility in the County.

6. Provides opportunities for residents to recycle.

7. Provides opportunities for residents to compost.

8. Provides opportunities for residents to get involved to do their own thing.

DISADVANTAGES:

1. May not be the most efficient means of providing service to the entire County.

2. Increased wear on roadways for transportation of solid waste out of the County.

NON-SELECTED

SYSTEMS

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

SYSTEM COMPONENTS:

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

RESOURCE CONSERVATION EFFORTS:

System 2 - continue programs
System 3 - continued programs
System 4 - expansion of resource conservation efforts to complement new facility
System 5 - expansion of resource conservation efforts to complement new facility

VOLUME REDUCTION TECHNIQUES:

System 2 - continued programs
System 3 – continued programs
System 4 - expansion of volume reduction efforts to complement new facility
System 5 - -------

RESOURCE RECOVERY PROGRAMS:

System 2 - continued programs
System 3 – continued programs
System 4 - expansion of volume reduction efforts to complement new facility
System 5 - expansion of volume reduction efforts to complement new facility

COLLECTION PROCESSES:

System 2 - determined by private companies
System 3 - determined by private companies
System 4 - determined by private companies

System 5 - determined by private companies

TRANSPORTATION:

System 2 - determined by private companies
System 3 - determined by private companies
System 4 - determined by private companies
System 5 - determined by private companies

DISPOSAL AREAS:

System 2 - determined by private companies
System 3 - determined by private companies
System 4 - determined by private companies
System 5 - determined by private companies

INSTITUTIONAL ARRANGEMENTS:

System 2 - none in existence
System 3 - none
System 4 - none
System 5 - none

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

System 2 - educational and informational programs
System 3 - increased efforts on education and informational resources
System 4 - increased efforts on education and informational resources
System 5 – increased efforts on education and informational resources

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

System 2 - n/a
System 3 - n/a
System 4 - n/a
System 5 - n/a

EVALUATION SUMMARY OF NON-SELECTED SYSTEM:

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

System 2- This system was not chosen because of the lack of County funds to operate the programs necessary to implement it. Composting is being handled at the Municipalities and buying recycled-content products is not in the County's control.

System 3 - Several counties in Michigan have Material Recovery Facilities and therefore can handle significantly larger amounts of recyclable material. Although, this is a major benefit. The siting of a MRF in Gratiot County was not considered a priority because several resource recovery programs have room for expansion to collect materials, and the desire to site a facility by a private contractor was not established.

System 4 - While a regional transfer station would provide Gratiot County with access to landfill capacity throughout the state and possible the country. The siting of this type of facility would not be favorable to the public. Gratiot County also sees no need to site a facility of this nature as it has access to abundant capacity within the Mid-Michigan area.

System 5 - A regional disposal facility would provide the County with ample disposal capacity for the Plan period and beyond. The siting of such a facility would not be favorable to the public at this time. And because landfills already in existence have capacity to meet Gratiot County's needs, the siting of such a facility was not a consideration.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

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

ADVANTAGES:

1. System 1 - Easy to implement.
2. System 2 - Easy to implement.
3. System 3 - Provides greater capacity to handle recyclable material, markets may be easier to locate for materials. The County is looking into the possibility of getting a private company to move into Gratiot with a MRF Station, it is not cost effective at this time for the county to develope one, the recycliables at this time is hauled to Mt Pleasant, Saginaaw, Clare and St Johns MRF stations.

4. System 4 - Could provide access to abundance of landfill capacity throughout the state and country, may provide a more efficient means of final disposal for Gratiot County waste.

5. System 5 - Would provide capacity for planning period and beyond, may provide a more efficient means of final disposal for Gratiot County waste.

DISADVANTAGES:

1. System1 - Room for improvement in resource recovery activities, lack of emphasis on education.

2. System 3 - May not be cost effective, actual siting may be difficult due to County demographics.

3. System 5 - Requires the siting of a new facility in the County, current waste company practices are not considered.

PUBLIC PARTICIPATION

AND APPROVAL

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

The Gratiot County Board of Commissioners designated the Gratiot County Board of Public Works to be the Solid Waste Planning Agency for the County. The Gratiot County Solid Waste Planning Committee prepared this Plan in accordance with Part 115 Solid Waste Management of the Natural Resources and Environmental Protection Act, 1994 PA451, as amended.

The Solid Waste Planning Agency will be the agency responsible for any information regarding host community negotiations. The Gratiot County Solid Waste Planning Agency will be responsible for publishing the public notices regarding the solid waste planning committee meetings.

Public notices for the schedule of meetings, public comment and review period, and the public hearing were placed in newspapers having major circulation in the County. Any and all interested parties were included on the mailing list for agenda and minutes, and each local unit received a copy of the agenda and minutes at least 10 days prior to each meeting. Public participation was encouraged by listing the meeting dates, times and locations in the local newspaper. Each local unit received a copy of the draft plan for review and recommendation(approval or denial). After receipt of the Plan from the local units, the Board of Commissioners were given the Plan for their approval and then submittal to the MDEQ.

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

Public participation is a vital element in the preparation of a Plan which will be acceptable to the County and provides the best selection of a waste management system.

Sec. 11535
Sec. 11538(1)(e) Complete the following checklist to ensure compliance with the Act/Rules.
Rules 706, 707, 711(g) Provide documentation in Appendix C as necessary.

Opportunities for public participation were provided as required per act/rules

PUBLIC PARTICIPATION

Yes No

The DPA conducted a public participation program to encourage public and municipal participation and involvement in the development and implementation of the Plan. [Rule 706 (1)]

Yes No

The DPA maintained a mailing list of all municipalities, affected public agencies, private sector, and all interested persons who requested information regarding the Plan. [Rule 706 (2)]

Yes No

The DPA notified by letter, each chief elected official of each municipality and any other person so requesting within the county at least ten days before planning committee's public meeting. [SEC. 11535 ©]

Yes No

Public meetings had time for questions and comments from the general public. [Rule 706(3)]

Yes No

Public meetings were scheduled at convenient times for public. [Rule 706 (4)]

Yes No

The DPA held public meetings with planning committee at least quarterly during Plan preparation. [Rule 706 (5)] (Meetings of the planning committee with DPA staff support fulfill this requirement.)

Yes No

The DPA maintained at least one central repository where all documents related to the Plan could be inspected by the public. [Rule 706(7)]

Yes No

The DPA allowed a period of at least three months for review and comment on the proposed Plan following authorization by the planning committee for public review. A copy of the proposed Plan was sent to the Director, to each municipality, to adjacent counties and municipalities that may be affected by the Plan or which have requested the opportunity to review the Plan, and the designated regional solid waste management planning agency for that county. [Sec. 11535(d) Rule 707(3)]

PUBLIC PARTICIPATION

All of these comments were submitted with the Plan to the governmental unit that filed notice. of intent. [Sec. 11535 (d), Rule 707 (2)]

Yes No

A notice was published at the time the Plan was submitted for review under Sec. 11535(d) as to the availability of the Plan for inspection or copying. [Sec. 11535(e)

Yes No

The DPA held a public hearing on the proposed Plan during the public comment period. [Sec. 11535(f), Rule 707 (3)]

Yes No

The DPA published notice in a paper with major circulation in the county, not less than 30 days before such hearing, which included a location where the public could inspect copies of the Plan and the time and place of the public hearing. [Sec. 11535 (f)]

Yes No

The DPA prepared a transcript, recording, or other complete record of the public hearing proceedings, and this record could be copied or inspected by the general public upon request after the public hearing. [Rule 707 (3)]

Yes No

If necessary, the DPA revised the Plan in response to public hearing comments and then submitted the Plan to the planning committee. [Rules 707(4)]

Yes No

A listing of the meeting locations and dates, along with a copy of the dated notice as published in the newspaper is included in Appendix C.

Yes No

Recording of attendance at public meetings included in Appendix C. [Rule 711(g)(I)]

Yes No

Recording of citizen concerns and questions included in Appendix C. [Rule711 (g)(ii)]

Yes No

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

The Solid Waste Committee was appointed at the County Commissioners Meeting on the 20th of January, 1998.

Notice of Intent was signed and filed on August, 1997.

The Municipalities were Notified of the Notice of Intent being filed with the Department of Environmental Quality.

The following is a list of the meetings that were held for compiling information from the public and the committee to finish the Booklet.

April 6, 1998, 7:00 p.m. in the Commissioners Room
May 18, 1998, 7:00 p.m. in the Commissioners Room
June 22, 1998, 7:00 p.m. in the Law Library
July 27, 1998, 7:00 p.m. in the Law Library
August 24, 1998, 7:00 p.m. in the Law Library
September 29, 1998, 7:00 p.m. in the Law Library
October 26, 1998, 7:00 p.m. in the Law Library
November 23, 1998, 7:00 p.m. in the Law Library
December 27, 1998, 7:00 p.m. in the Law Library Canceled
January 25, 1999, 7:00 p.m. in the Law Library
February 22, 1999 7:00 p.m. in the law Library Canceled
March 22, 1999 7:00 p.m. in the Law Library
April 26, 1999 7:00 p.m. in the Law Library
May 24, 1999 7:00 p.m. in the Law Library Canceled
June 28, 1999 7:00 p.m. in the Law Library Canceled
July 26, 1999 7:00 p.m. in the Law Library
August 23, 1999 7:00 p.m. in the Law Library Canceled
September 27, 1999 7:00 p.m. in the Law Library Canceled
October 25, 1999 7:00 p.m. in the Law Library
November 22, 1999 7:00 in the Law Library
December 27, 1999 7:00 in the Law Library

In an effort to conserve on paper, I have not included the minutes of the meetings in this booklet, but The minutes of all the meetings are on file in the Gratiot County Solid Waste Department and in the Gratiot County Drain Office.

PLANNING COMMITTEE APPOINTMENT PROCEDURE:

Gratiot County solicited individuals from each of the different categories that were to be represented on the Solid Waste Management Planning Committee.
Contacts were made that indicated an interest in serving as a member on the Solid Waste Committee, by the individuals. All appointments are filed in the Clerks Office.
All appointments were made by the Gratiot County Board of Commissioners.

When a change became necessary to make on the Committee, the same procedure was followed.

During the Review Process of the Gratiot County Plan, we received a form letter from a Law Firm that represents 50 individual Michigan based Solid Waste companies addressing their concerns on what kinds of things are being put in different County Plans. The only item they had that was in our Plan was the Serverability Clause, and they said it could most likely stay in the plan.

PLANNING COMMITTEE

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

Four representatives of the solid waste management industry:

1. Dean King, K & K Disposal

2. Steve VanAcker, replaced by Dave Herberholz, replaced by Mary Fischer all from Waste Management

3. William Shrum, Trash Management for St Louis

4. Kathy Doran, Recycling Manager for New Haven

One representative from an industrial waste generator:

1. Ed Lorenz, Alma College

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

1. Doug Young, Soil Conservation District

2. Dennis Fitzpatrick, Soil Conservation District Committee Chairman

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

1. Gordon Grant, replaced by Mark Neitzke, Both were County Commissioners

One representative from township government:

1. Bob Barnes, New Haven Township Clerk

One representative from city government:

1. Lee Coughlin, City of Alma

One representative from the regional solid waste planning agency:

1. Sue Fortune, East Central Michigan Planning & Development Region

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

1. Jim Vanderbeek, retired from Total Petroleum

2. Howard Poindexter, Retired Soil Conservation District

3. Brenda Netzley, Farm Bureu Member

APPENDIX D

Plan Implementation Strategy

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

Gratiot County at this time will stay with the current Solid Waste Management System but keep an open mind on the option that a MRF Station could be placed in Gratiot County.
The Act 451 implementation and Management responsibilities will be assumed by the Gratiot County Designated Planning Agency, acting through the Department of Public Works. The Gratiot County Designated Planning Agency is responsible for writing the Gratiot County Solid Waste Management Plan.
The County is committed to resource recovery and a cooperative effort to reach diversion goals is set on continuing to increase the efficiency of the effectiveness of the Plan.

Severability

Sections of the Plan may be deemed severable and should any section, clause, or provision of this Plan be declared to be invalid, it shall not affect the validity of the Plan as a whole or any part thereof, other than the part so declared to be invalid.

Resolutions

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

Gratiot County has 22 municipalities and they are listed below. The Solid Waste Management Plan must be approved by 67% of the local municipalities. The results were compiled and are listed below. The municipalities resolutions are on file in the DPA Office in Gratiot County.

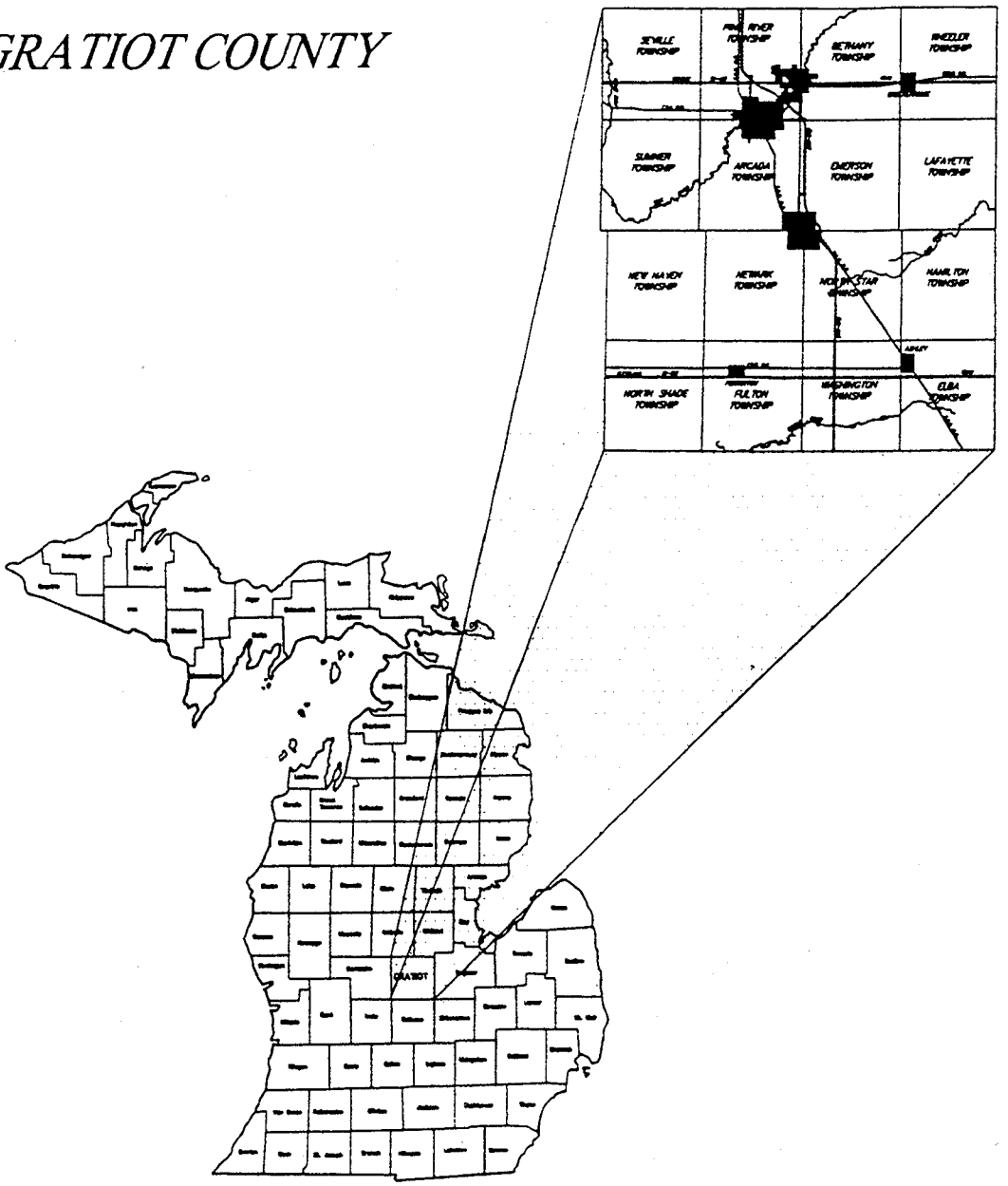
Municipality	Approve	Deny
Alma, City	X	
Arcada Twp.	X	
Bethany Twp.	X	
Elba Twp.		
Ashley Village		
Emerson Twp.	X	
Fulton Twp.	X	
Perrinton Village		
Hamilton Twp.	X	
Ithaca City	X	
Lafayette Twp.	X	
Newark Twp.	X	
New Haven Twp.	X	
North Shade Twp.	X	
North Star Twp.	X	
Pine River Twp.	X	
St. Louis Twp.	X	
Seville Twp.	X	
Sumner Twp.	X	
Washington Twp.		
Wheeler Twp.	X	
Breckenridge village	X	

Listed Capacity

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

The following are letter from Facilities stating Gratiot may import trash to its Landfill which more than covers the amount of trash Gratiot County will produce.

GRATIOT COUNTY



NORTHERN OAKS RECYCLING AND DISPOSAL FACILIT
A WASTE MANAGEMENT COMPANY

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

September 29, 1999

Ms. Helen Laurenz
214 E. Center Street
Ithaca, MI 48847

Ms. Laurenz:

Per our conversation regarding the update of Gratiot County Solid Waste Plan. This is to advise you that Northern Oaks Recycling and Disposal Facility will provide the necessary airspace for the disposal of Gratiot County solid waste for the next twenty years.

Sincerely,

Northern Oaks Recycling and Disposal Facility

Richard Leszcz
Manager

Central
Sanitary Landfill

Helen Laurenz
214 E. Center
Ithaca, MI 48847

Helen,

This serves notice to the members of Gratiot Co.'s Solid Waste Planning Committee that Central Sanitary Landfill located in Montcalm Co. is approved to accept all types of acceptable solid waste from Gratiot County. If you have any further questions concerning this matter please call me at 616-636-4906.

Sincerely,

Mark Creswell
Central Sanitary Landfill

21545 W. Coopersville Rd. ◆ Pierson, MI 49339 ◆ (616) 636-9941 ◆ (616) 636-5271 FAX

REPUBLIC SERVICES, INC.

October 11, 1999

Ms. Helen Laurenz
Drain Commissioner
Gratiot County
214 E. Carter Street
Ithaca, Michigan 48847

Subject: Brent Run Landfill
Available Capacity

Dear Ms. Laurenz:

This letter is provided to confirm our earlier conversation that Brent Run Landfill is a willing recipient of all waste that is generated within Gratiot County.

You indicated that the County estimates a solid waste production rate of 30,000 tons per year. This volume can be easily managed in a manner that is safe and protective of human health and the environment at the Brent Run Landfill for at least 20 years.

If you have any questions, please call me at 734-654-3615.

Sincerely,

Matt Neely

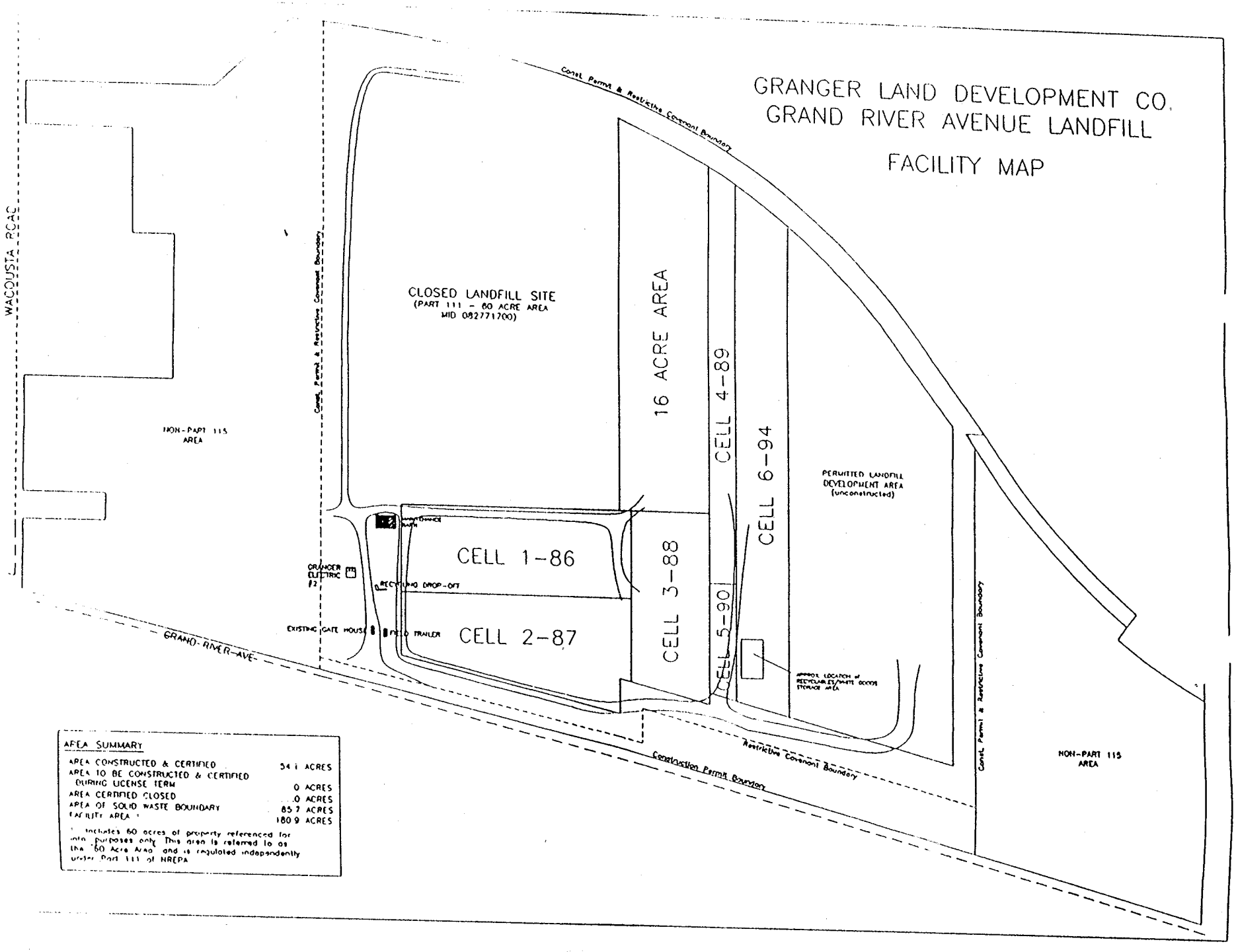
MN/pas

Brent Run Landfill 8247 Vienna Road Montrose, Michigan 48457 Phone: (810) 639-3077 Fax: (810) 639-6070

Maps

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

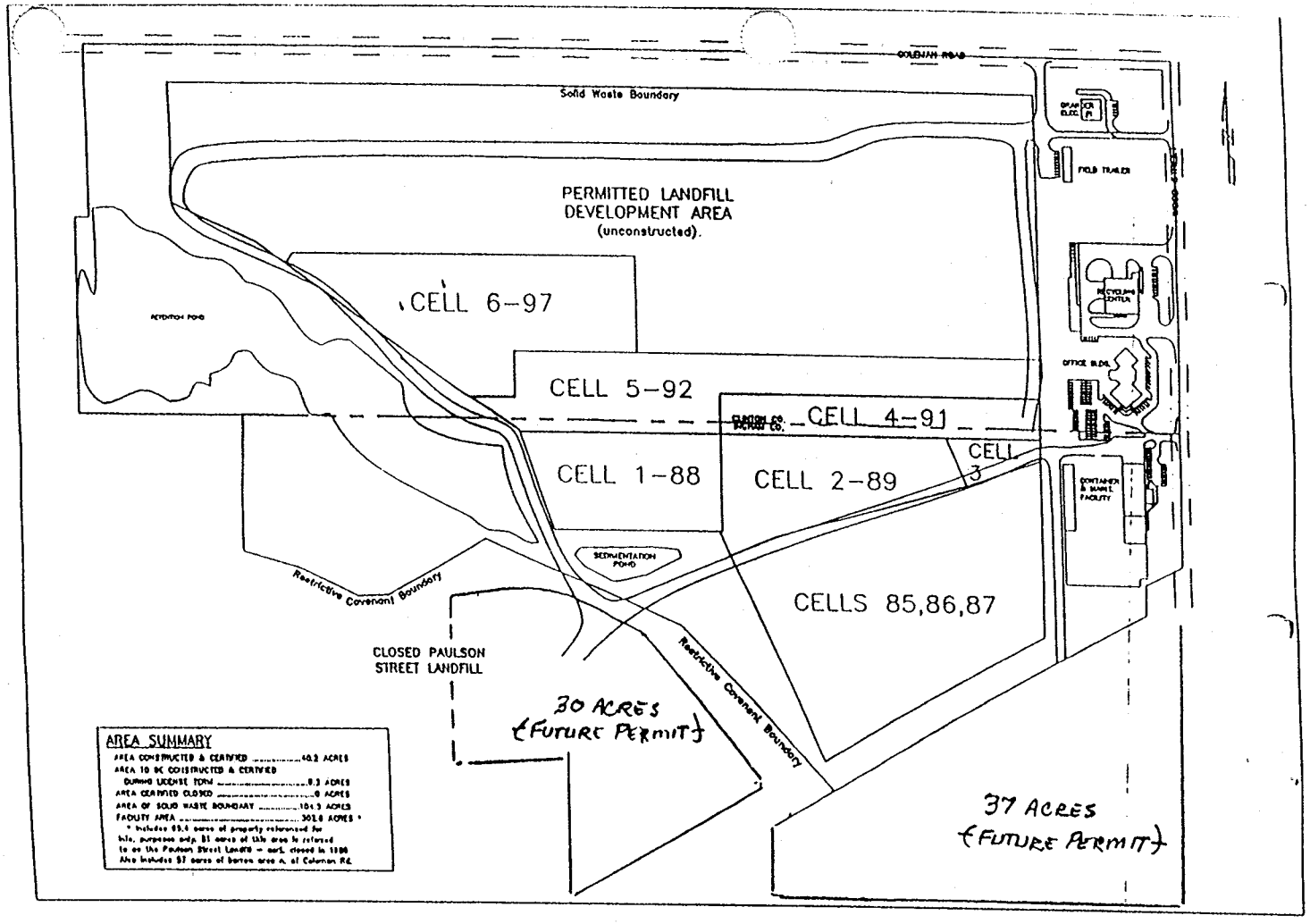
GRANGER LAND DEVELOPMENT CO.
GRAND RIVER AVENUE LANDFILL
FACILITY MAP



AREA SUMMARY

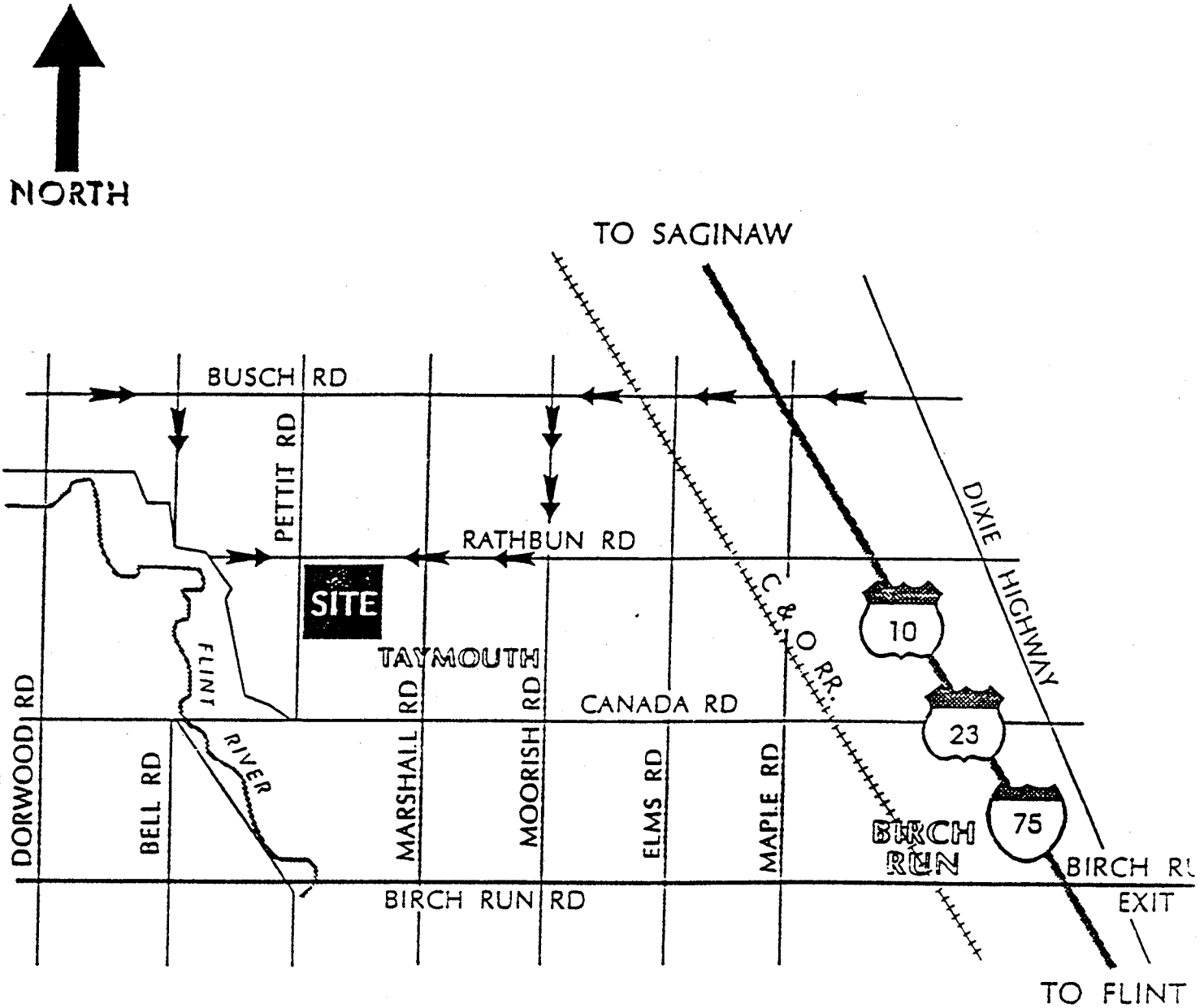
AREA CONSTRUCTED & CERTIFIED	54.1 ACRES
AREA TO BE CONSTRUCTED & CERTIFIED DURING LICENSE TERM	0 ACRES
AREA CERTIFIED CLOSED	0 ACRES
AREA OF SOLID WASTE BOUNDARY	85.7 ACRES
FACILITY AREA *	180.9 ACRES

* Includes 60 acres of property referenced for info. purposes only. This area is referred to as the "60 Acre Area" and is regulated independently under Part 111 of NREPA

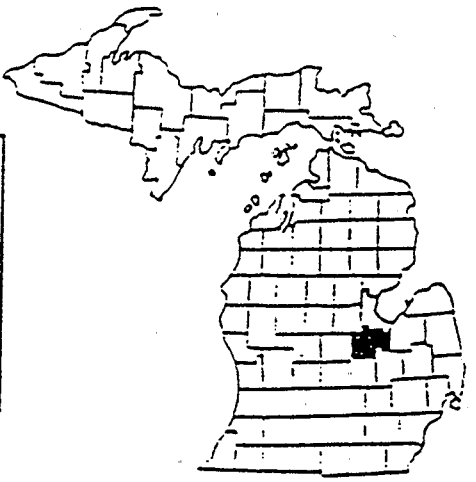


GRANGER WASTE MANAGEMENT
WOOD STREET PART 115 LANDFILL
FACILITY MAP

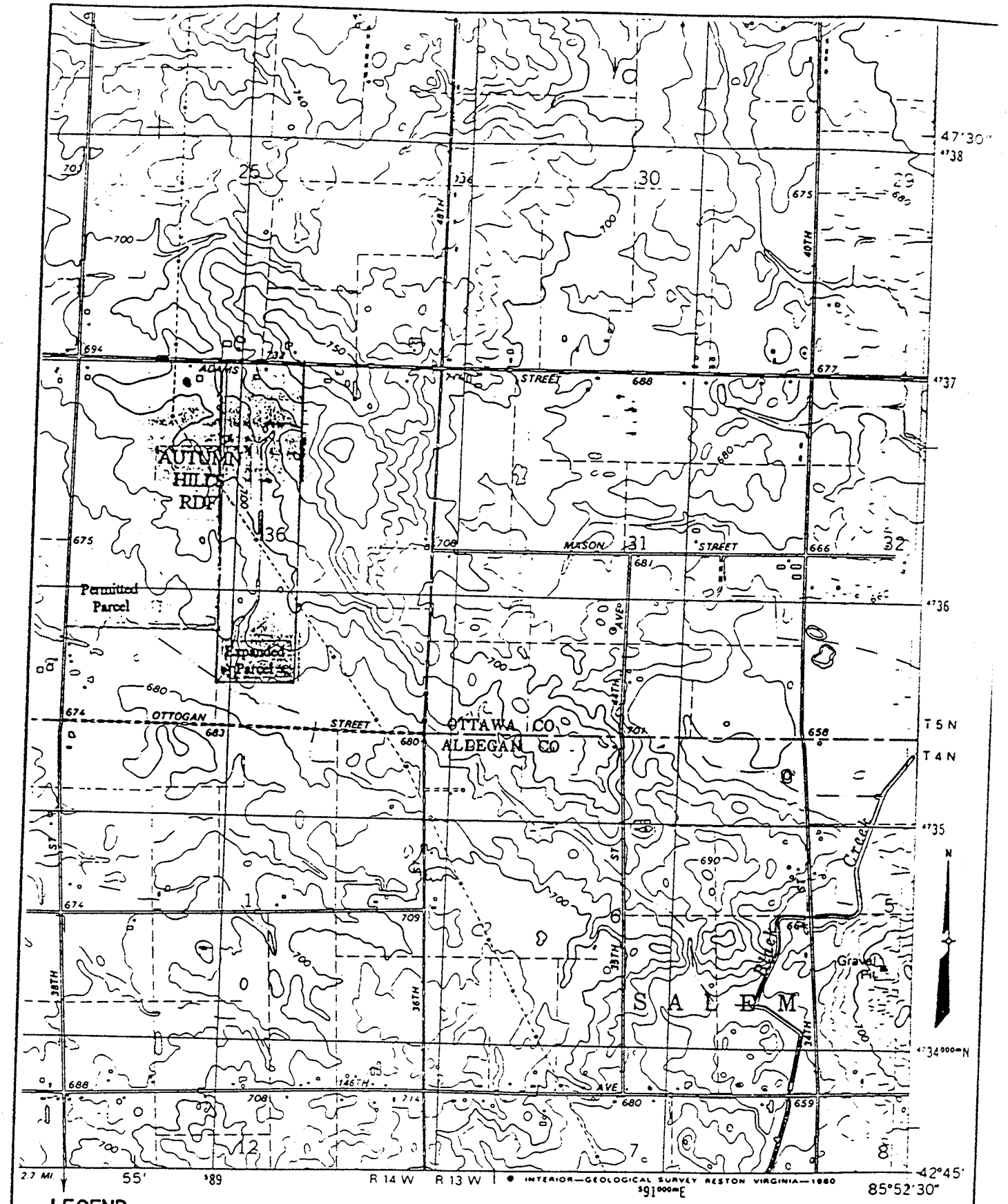
DESIGNATED HAUL ROUTE



PEOPLE'S GARBAGE DISPOSAL, INC.
4143 EAST RATHBUN ROAD
BIRCH RUN, MICHIGAN 48415
MID 005 659 072
PHONE: (517) 777-1120



SAGINAW COUNTY, M



RUST ENVIRONMENT & INFRASTRUCTURE

PROJECT: AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY

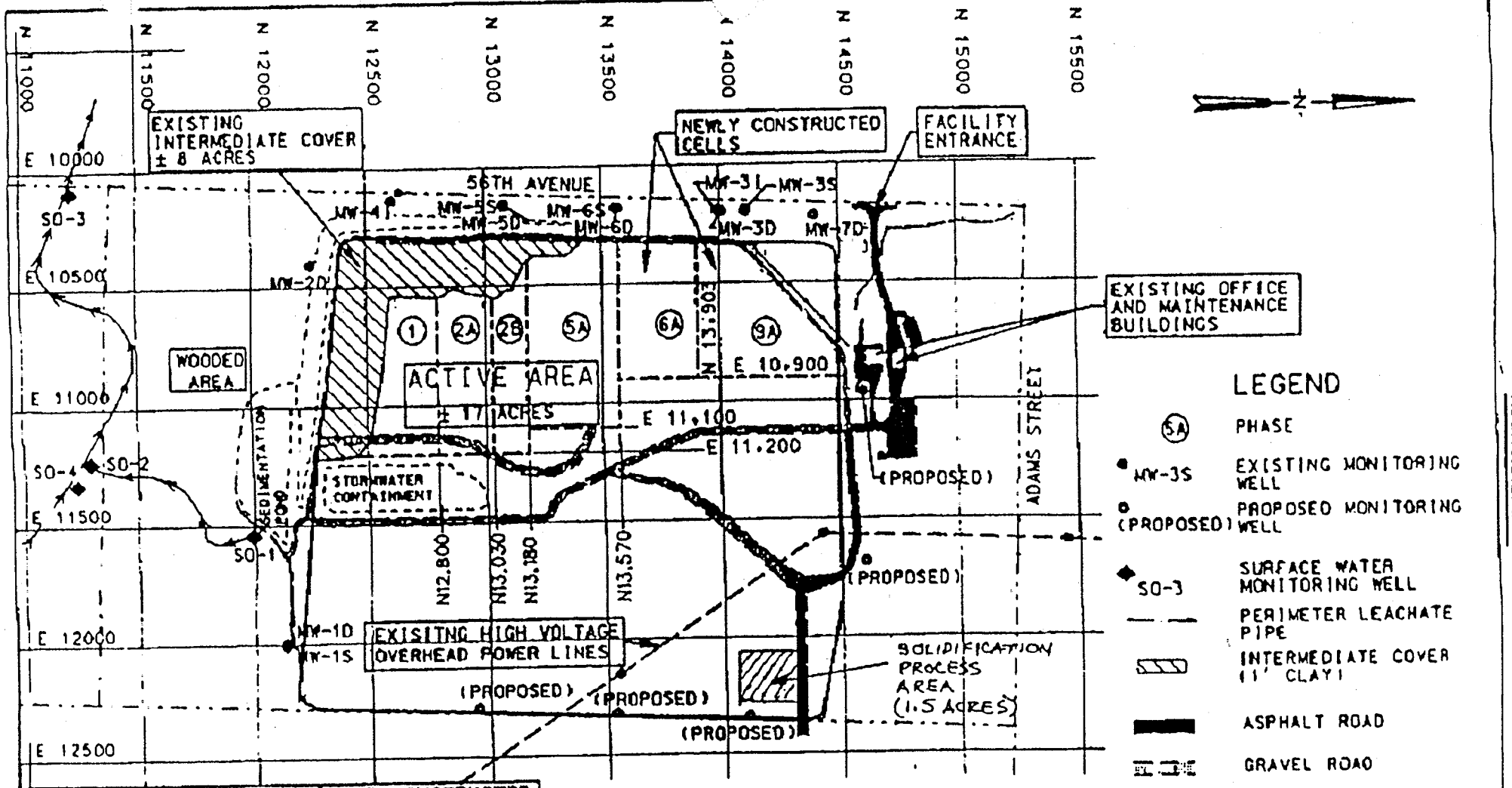
PROJECT NO.: 74525.100

FIGURE 2 - 2

ENVIRONMENTAL ASSESSMENT REPORT
PERMIT MODIFICATIONS

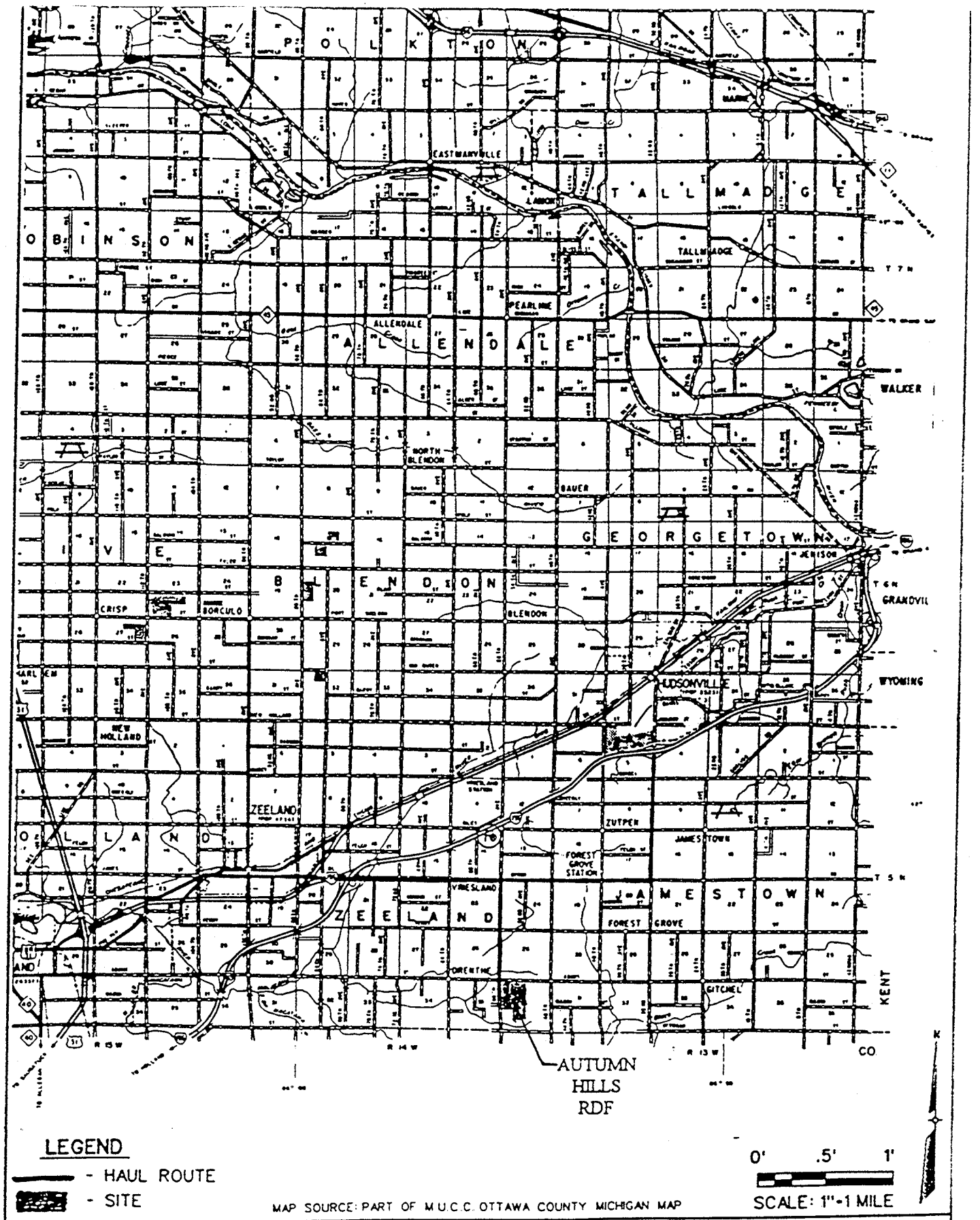
SITE TOPOGRAPHY

FILE NAME project1\authills\70184\0184502.dgn
PLOT DATE: OCT-1996 16:02



PHASE	NO. OF ACRES	YEAR CONSTRUCTED
POND	2.6	1992
1	9.5	1992
2A	4.8	1993
2B	3.2	1994
5A	7.5	1995
6A	4.5	1996
9A	5.6	1996

RUST ENVIRONMENT & INFRASTRUCTURE	PROJECT NO: 70184.100	PROJECT: AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY OTTAWA COUNTY, MICHIGAN	SHEET 1 OF 1
	CADD PRODUCED DRAWING 0184502.DGN/ LKL/ZW10/95	SHEET TITLE: EXISTING FACILITY LAYOUT AND MONITORING PLAN	DRAWING NO 1



MAP SOURCE: PART OF M.U.C.C. OTTAWA COUNTY MICHIGAN MAP

RUST ENVIRONMENT & INFRASTRUCTURE

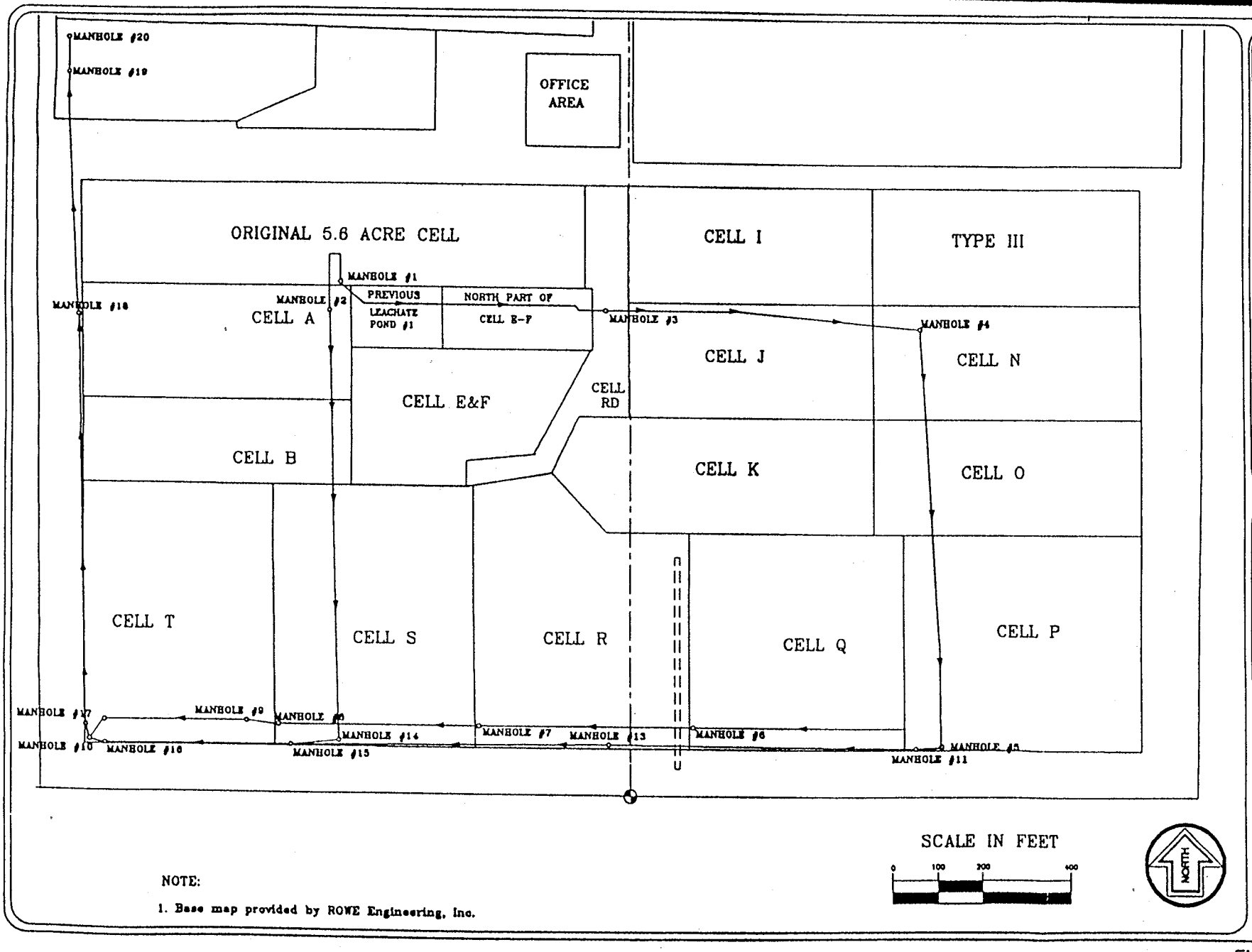
PROJECT: AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY

PROJECT NO. 74525.100

FIGURE 2 - 1

ENVIRONMENTAL ASSESSMENT REPORT
PERMIT MODIFICATIONS

SITE LOCATION MAP



NOTE:

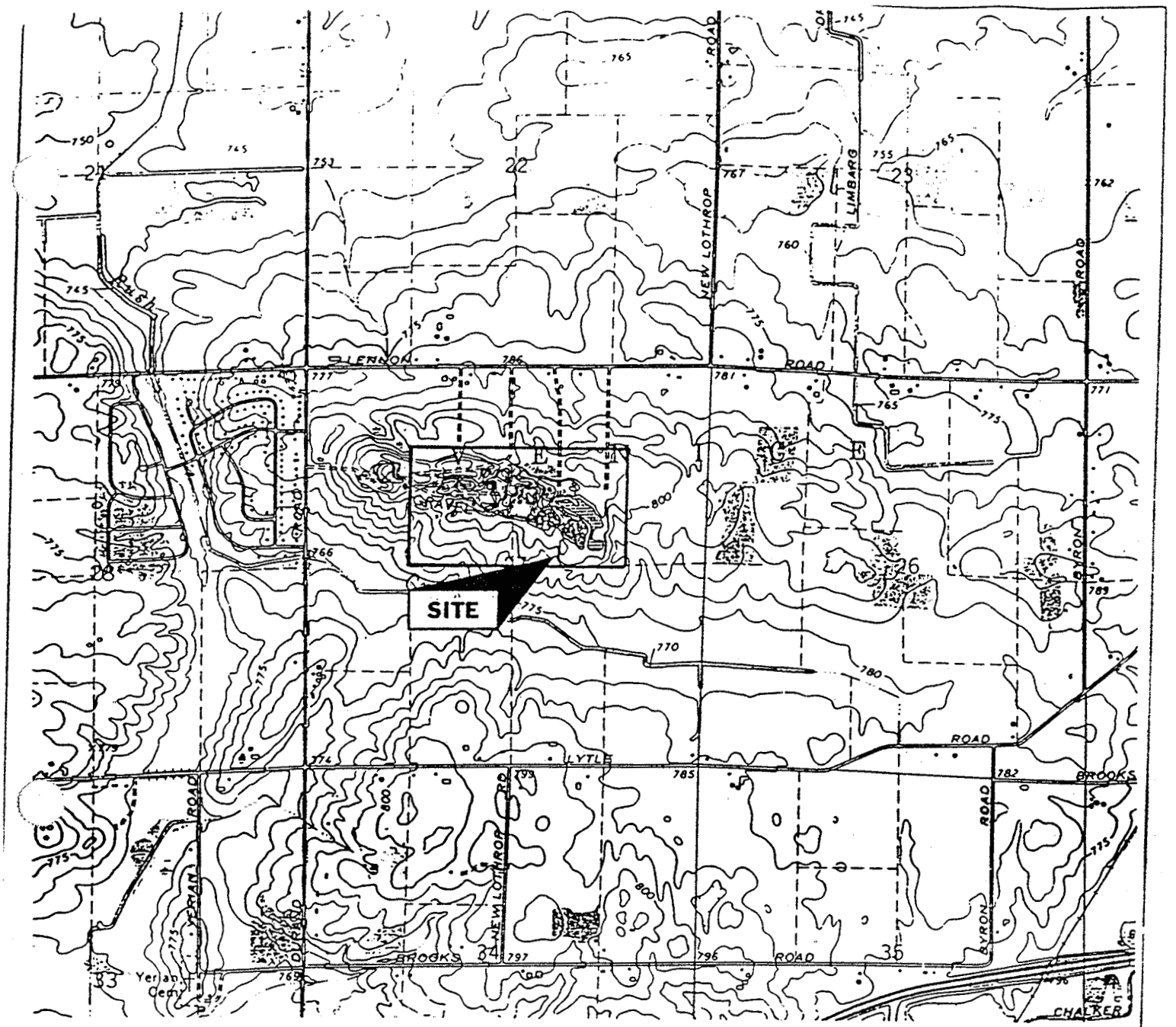
1. Base map provided by ROWE Engineering, Inc.

SITE PLAN
VENICE PARK RECYCLING AND DISPOSAL FACILITY
9536 LENNON ROAD
LENNON, MICHIGAN

DATE: 4-18-97
SCALE: 1" = 200'
DRAFTER: ARR/AM
JOB: PE 27575

FILE NAME H:\VENICE\27575-02

Figure No. 2



CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

DURAND QUADRANGLE
MICHIGAN
7.5 MINUTE SERIES (TOPOGRAPHIC)

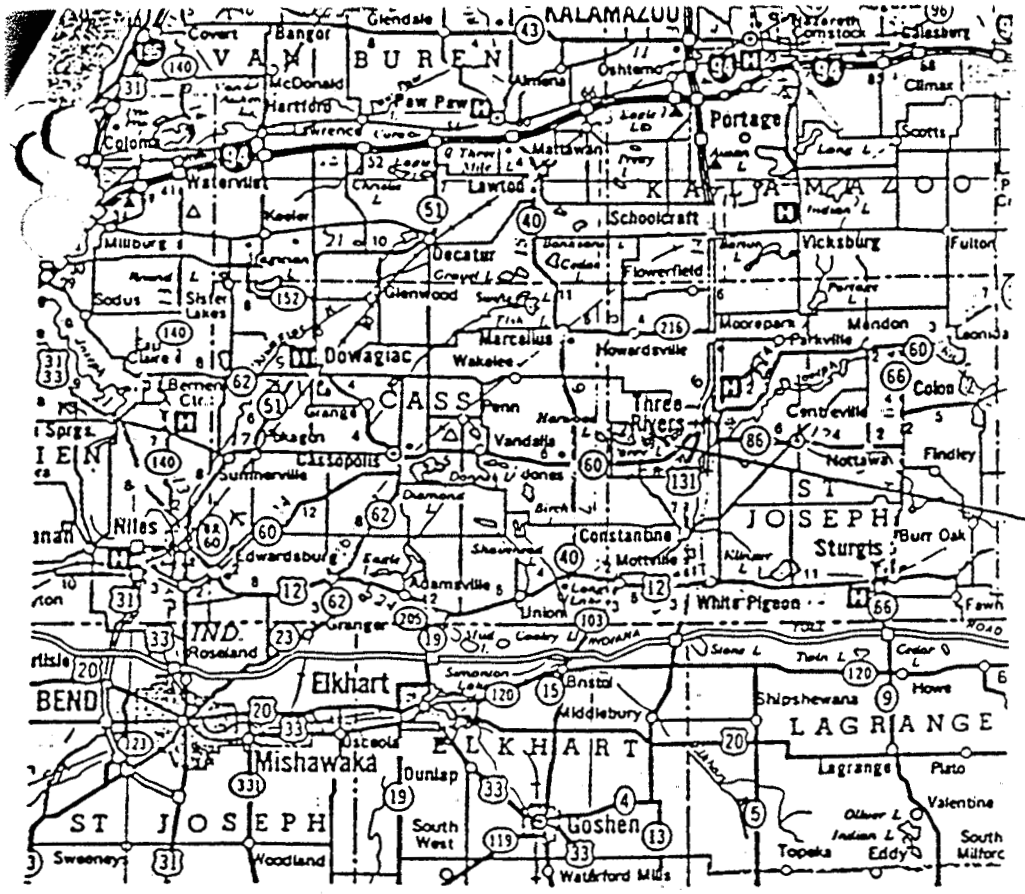
1969
PHOTOREVISED 1975
AMS 4269 IV NW–SERIES V862

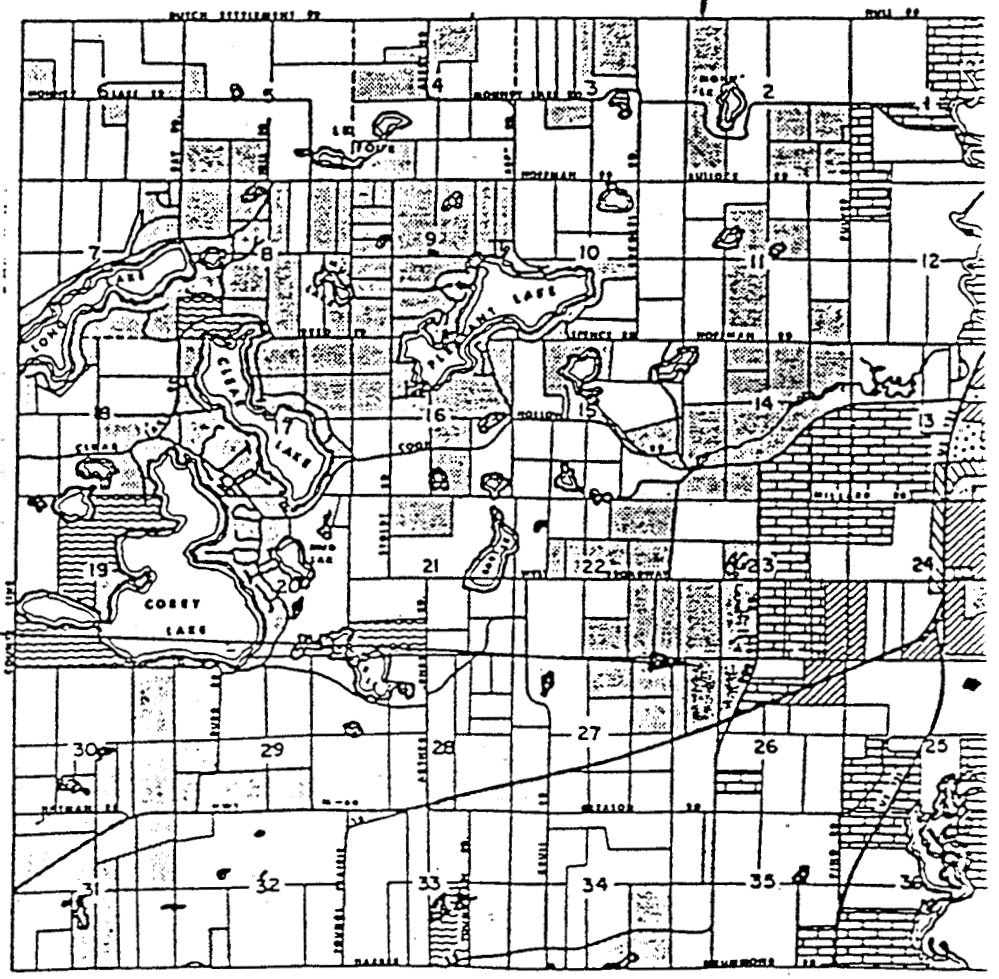
QUADRANGLE LOCATION

Date 4-17-97	BAY CITY	soil and materials engineers, inc	SITE LOCATION MAP
Dr By ARR	KALAMAZOO		VENICE PARK RECYCLING & DISPOSAL FACILITY
Scale AS SHOWN	LANSING		9536 LENNON ROAD
Job PE 27575	PLYMOUTH		LENNON, MICHIGAN
	TOLEDO		

DWG NO 27575-01

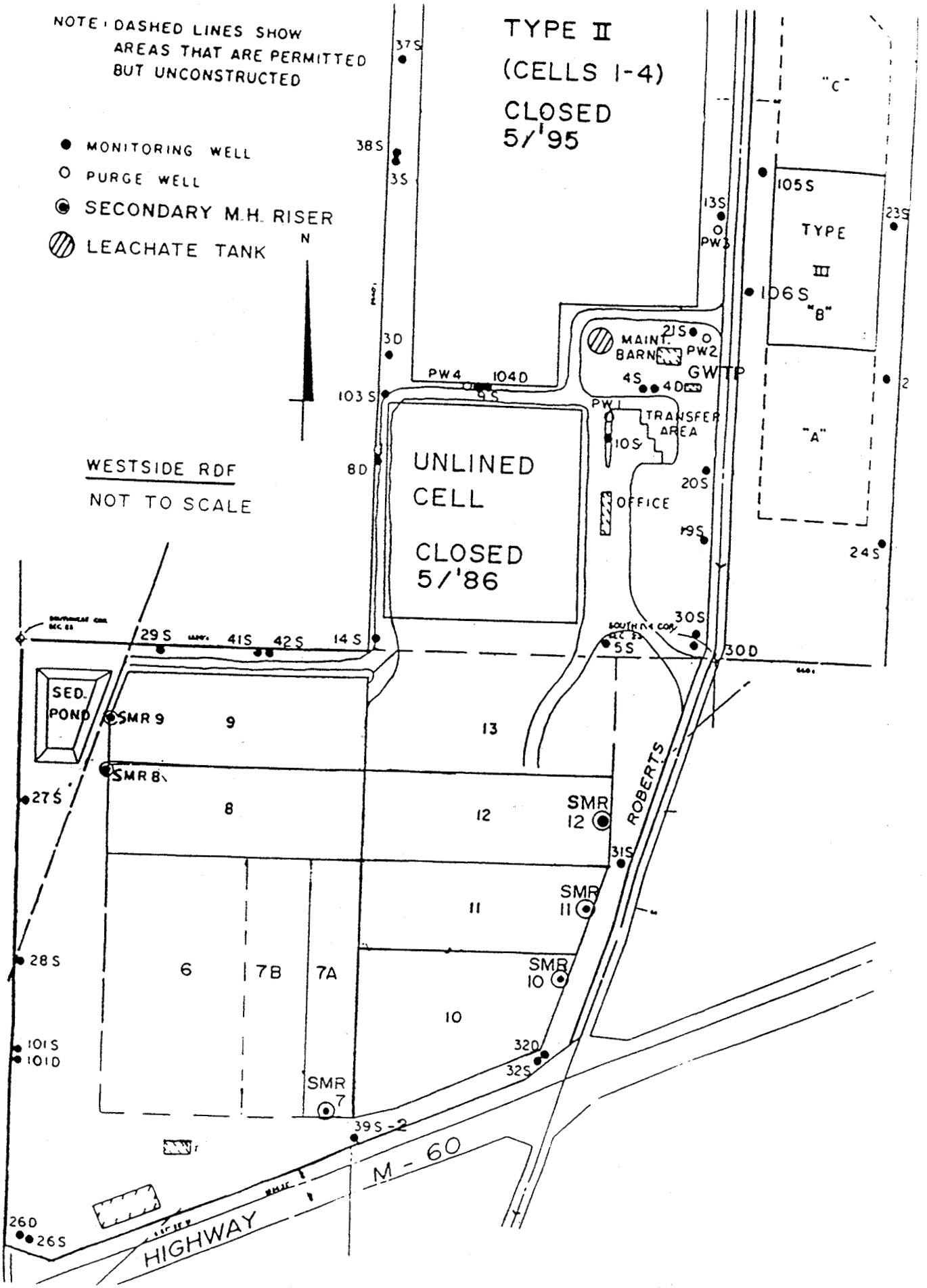
Figure No. 1





WESTSIDE LANDFILL

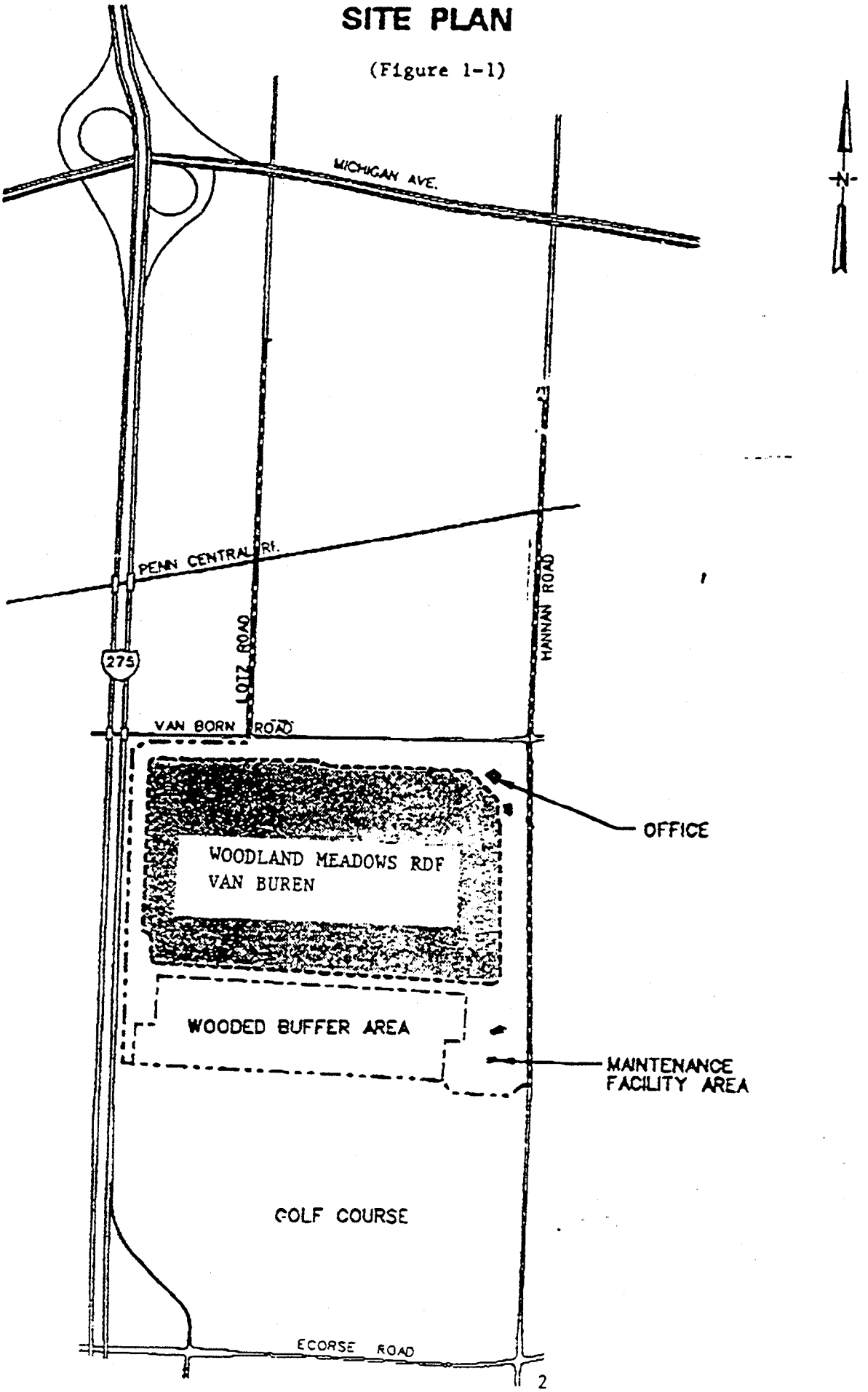
FIGURE 1



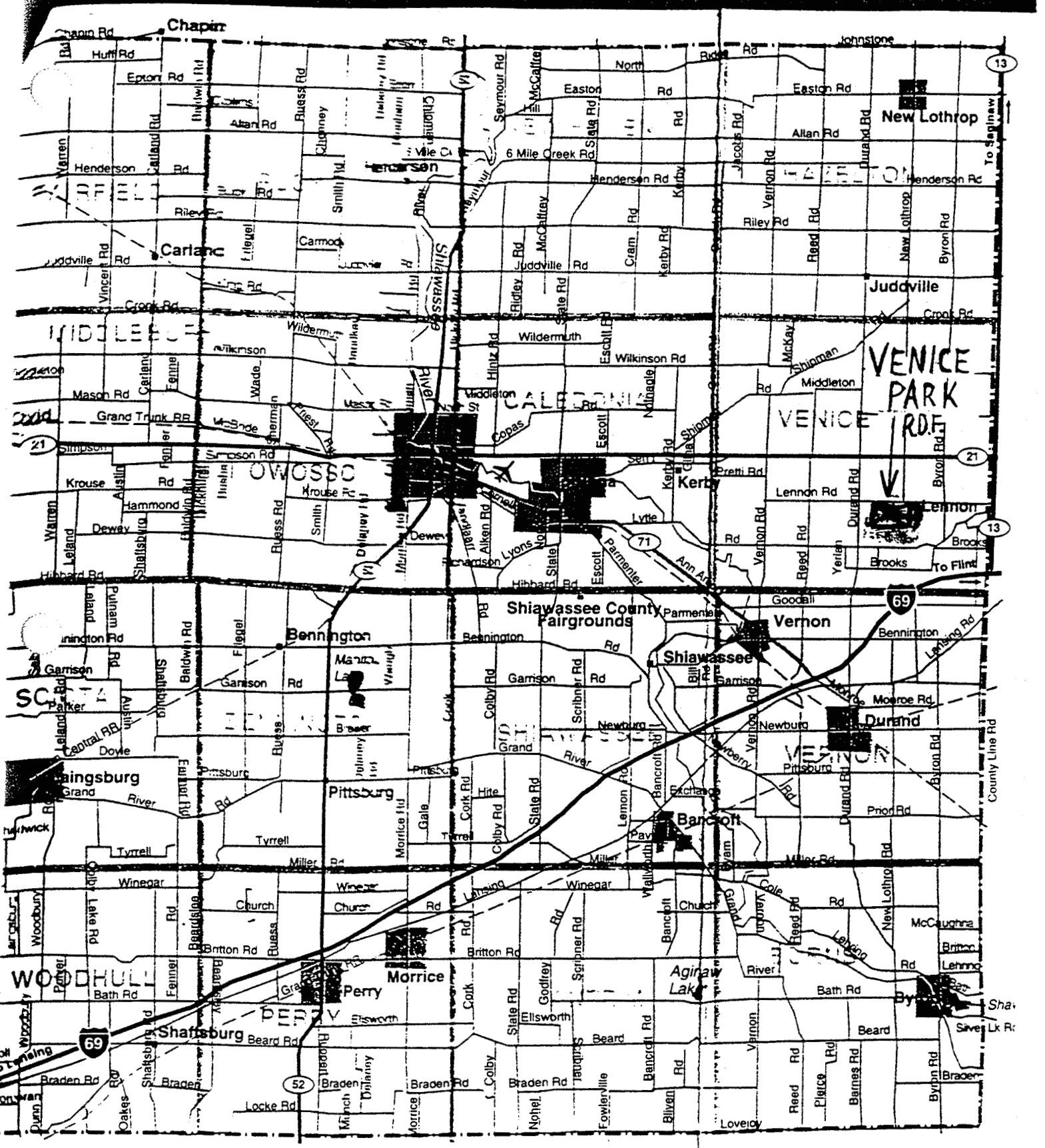
WESTSIDE RDF

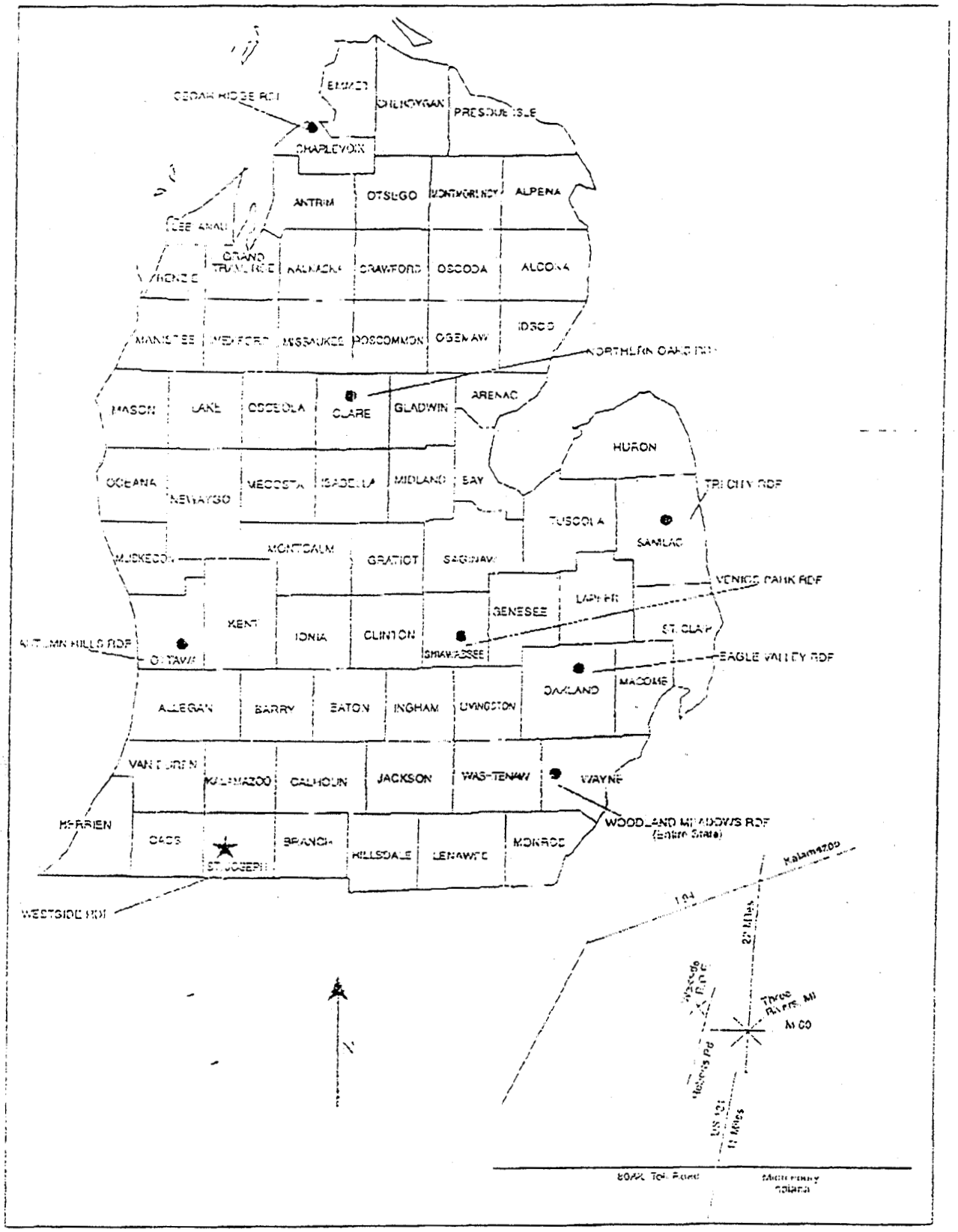
SITE PLAN

(Figure 1-1)

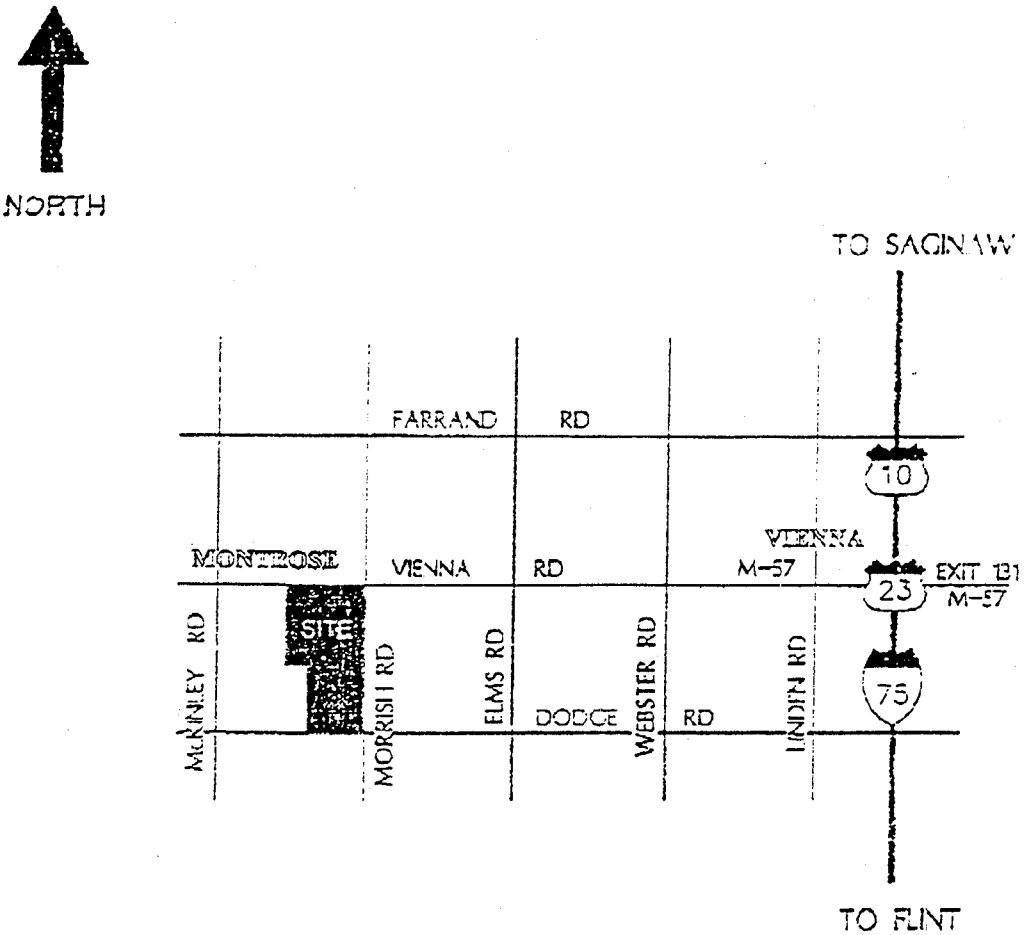


SHIAWASSEE COUNTY MAP


Chapin
Carland
Henderson
Middleton
Owosso
Caledonia
Kerby
Lennon
Juddville
New Lothrop
Venice Park
Shiawassee County Fairgrounds
Vernon
Shiawassee
Bennington
Durand
Laingsburg
Pittsburg
Bancroft
Morrice
Perry
Shaftsburg
Aginaw Lake
Woodhull
Scott
Middlebury
Venice
Shiawassee River
To Flint
To Saginaw
Lansing Rd
County Line Rd
Johnstone
Easton Rd
Allan Rd
6 Mile Creek Rd
Henderson Rd
Riley Rd
Juddville Rd
Crook Rd
Wildermuth
Wilkinson Rd
Mason Rd
Grand Trunk RR
Simpson Rd
Krouse Rd
Hammond
Dewey
Hibbard Rd
Goodall
Bennington Rd
Garrison Rd
Parker
Dowe
Pittsburg
Grand River
Tyrrell
Miller Rd
Winegar
Church Rd
Britton Rd
Bath Rd
Ellsworth
Beard Rd
Braden Rd
Locke Rd
Loveloy
Moerce Rd
Newburg
Exchange
Prior Rd
McCaughna
Lehning
Silver Lk Rd
Byron Rd
Durand Rd
Vernon Rd
Reed Rd
Pretti Rd
Lyons
Parmenter
Ann Arbor
Shiman
Copas
Escott
Cram Rd
Kerby Rd
Jacobs Rd
Seymour Rd
McCaffrey
Ridley Rd
Hintz Rd
Alken Rd
Colby Rd
Scribner Rd
Cork Rd
Gale
Morrice Rd
Godfrey
Bancroft Rd
Wallworth
Cole
Lemon Rd
Hite
Lake Rd
Woodbury
Fenner
Beardslee
Buess
Smith
Chaney
Cutland Rd
Vincent Rd
Warren
Leland
Shaftsburg
Austin
Baldwin Rd
Putnam
Filegel
Hubbard
Braden
Dunn
Oakes
Munch
Delaney
Nohel
Fowlerville
Bliven
Barnes Rd
Pierce Rd
Byron Rd
Brooks
Yerkes
Durand Rd
Ridge Rd
Johnstone
North
Easton
Riley
Carmody
Wilkinson
Middleton St
Copas
Escott
Kerby
Lyons
Parmenter
Goodall
Bennington
Garrison
Newburg
Pittsburg
Grand River
Tyrrell
Miller
Winegar
Church
Britton
Bath
Ellsworth
Beard
Braden
Locke
Loveloy
Moerce
Prior
Exchange
McCaughna
Lehning
Silver Lk Rd
Byron
Durand
Vernon
Reed
Pierce
Barnes
Byron
Bancroft
Bliven
Fowlerville
Nohel
Morrice
Munch
Delaney
Hubbard
Braden
Dunn
Oakes
Shaftsburg
Beardslee
Woodbury
Lake Rd
Fenner
Buess
Smith
Chaney
Cutland
Vincent
Warren
Leland
Shaftsburg
Austin
Baldwin
Putnam
Filegel
Hubbard
Braden
Dunn
Oakes
Munch
Delaney
Nohel
Fowlerville
Bliven
Barnes
Pierce
Byron
Brooks
Yerkes
Durand
Ridge
Johnstone
North
Easton
Riley
Carmody
Wilkinson
Middleton


CEDAR RIDGE RDF
EMMET
CHEBOYGAN
PRESQUE ISLE
CHARLEVOIX
ANTRIM
OTSEGO
MONTMORENCY
ALPENA
LEELANAU
GRAND TRAVERSE
KALKASKA
CRAWFORD
OSCODA
ALCONA
BENZIE
MANISTEE
WEXFORD
MISSAUKEE
ROSCOMMON
OGEMAW
IOSCO
NORTHERN OAKS RDF
MASON
LAKE
OSCEOLA
CLARE
GLADWIN
ARENAC
HURON
OCEANA
NEWAYGO
MECOSTA
ISABELLA
MIDLAND
BAY
TRI CITY RDF
TUSCOLA
SANILAC
MUSKEGON
MONTCALM
GRATIOT
SAGINAW
VENICE PARK RDF
LAPEER
GENESEE
KENT
IONIA
CLINTON
SHIAWASSEE
ST. CLAIR
AUTUMN HILLS RDF
OTTAWA
EAGLE VALLEY RDF
OAKLAND
MACOMB
ALLEGAN
BARRY
EATON
INGHAM
LIVINGSTON
VAN BUREN
KALAMAZOO
CALHOUN
JACKSON
WASHTENAW
WAYNE
BERRIEN
CASS
ST. JOSEPH
BRANCH
HILLSDALE
LENAWEE
MONROE
WOODLAND MEADOWS RDF
(Entire State)
WESTSIDE RDF
Kalamazoo
I-94
25 Miles
Three Rivers, MI
M 60
Helmis Rd
US 131
11 Miles
BOAT Toll Point
MACKINAW Island

BRENT RUN, INC.



BRENT RUN, INC.
8247 VIENNA ROAD
MONTROASE TWP., MI 48451
PHONE: (810) 639-3328
FAX: (810) 639-3298

GENESEE COUNTY, MI

Autumn Hills - Ottawa County

Ottawa
Allegan
Kent
Muskegon
Montcalm
Oceana *
Newago *
Ionia *
Barry *
Kalamazoo *
St. Joseph *
Van Buren *
Calhoun *
Berrien *
Branch *
Cass *
Clare *
Clinton *
Eaton *
Osceola *
Gratiot *
Isabella *
Lake *
Mason *
Mecosta *

* Counties approved for Special Waste only.

Inter-County Agreements

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

Venice Park - Shiawassee County

Shiawassee
Genesee
Saginaw
Lapeer
Oakland
Midland
Livingston
Ingham
Clinton
Eaton
Gratiot
Bay
Isabella
Lake
Mecosta
Newago
Osceola
Ionia
Montcalm

GENESEE COUNTY METROPOLITAN PLANNING COMMISSION

ROOM 223 - 1101 BEACH STREET FLINT, MICHIGAN 48502-1470

TELEPHONE (810) 257-3010 FAX (810) 257-3185

CHAPIN W. COOK, AICP
DIRECTOR-COORDINATOR
THOMAS G. GOERGEN
ASSISTANT DIRECTOR

May 6, 1999

Ms. Helen J. Laurenz
Gratiot County
Gratiot County Department of Public Works
County Courthouse
214 E. Center St.
Ithaca, MI 48847-1499

Subject: Genesee County Solid Waste Management Plan Update
Importation and Exportation of Solid Waste

Dear Ms. Laurenz:

The Genesee County Solid Waste Management Committee has developed the following criteria for evaluation of the counties to be included as exporters and importers of solid waste in the our "Update to Genesee County's Solid Waste Management Plan."

In order to be included in our Plan, the following must be met:

- Genesee County must have ample space to accommodate solid waste imported from other counties.
- The exporter's/importer's Goals must be similar to Genesee County's Solid Waste Management Goals.
- There must be no restrictions on the amount of waste received by or exported to another county.
- Genesee County must be named in the importer's/exporter's respective solid waste management plans; and since Genesee County must be in the individual solid waste management plans, we will not sign a reciprocal agreement with any county.

If you wish to be included in Genesee County's plan, please send a letter to me requesting either Importation, exportation or both; a copy of your approved Solid Waste Management goals and objectives; a copy of your approved selected alternative; and proof of the inclusion of Genesee County in your respective plans.

If you have any questions, please don't hesitate to contact me at (810) 257-3010.

Sincerely,

Tom Goergen

Thomas Goergen JS
Assistant Director

k:\ wastemgt\letters\imexre.doc

MONTCALM COUNTY
OFFICE OF THE COUNTY CONTROLLER

211 W. MAIN ST.
P.O. BOX 368, STANTON, MI 48888
(517) 831-7300
FAX (517) 831-7375

Date: May 27, 1998

To: Solid Waste Management Planning Committee
Ottawa County
Ionia County
Isabella County
Lake County
Mecosta County
Newaygo County
Gratiot County
Kent County
Muskegon County
Barry County

From: Ed Sell, County Controller

Subject: Reciprocal Import/Export Agreement

The Montcalm County Solid Waste Management Planning Committee has identified your county as one they would like to enter into a reciprocal agreement with for the import and export of solid waste. Central Sanitary Landfill is located in Pierson on the west end of Montcalm County.

The Montcalm County Solid Waste Management Planning Committee requests that reciprocal agreements, allowing Montcalm County to export solid waste to your county, be included in your county plans for import/export counties. Montcalm County would, in turn, allow your county to export solid waste to our county. Please respond in writing with your willingness to enter into such an agreement.

Please contact me with any question.

RESOURCE RECOVERY PROJECT
OF IONIA COUNTY

July 7, 1998

TO: Ionia County Solid Waste Planning Committee
FROM: Don Lehman, Solid Waste Coordinator Don
RE: Solid Waste Management Plan Progress

I want to inform you that as of July 8, 1998, I will be officially leaving my position as Ionia County's Solid Waste Coordinator. I have accepted a position with Michigan State University Extension as a District Groundwater Stewardship Agent, and my office will be in Stanton at the Montcalm County Extension Office beginning on July 9. I will, however, in my "spare" time continue the process of putting together a draft of the SWMP.

At the last Solid Waste Planning Committee meeting on June 18 a quorum was not present, so we informally discussed the Plan and set the date for the next meeting. The next meeting will be held on July 30 at 4:00 at the Extension Office in Ionia. At that meeting the draft of the Plan can be discussed and possibly approved and offered for public review and comment. I will make every effort to attend that meeting, and be available for questions. If you need to contact me you can call me at 616-527-1369 or 517-831-7500.

It has been a pleasure working with the Solid Waste Planning Committee and I very much appreciate the Committee's support and direction.

c. Ionia County Municipalities
SWMP Update Mailing List

100 Library Street, Ionia, MI 48846
Phone: (616)527-5357 Fax: (616)527-5312

AUTHORIZED EXPORTATION OF SOLID WASTE

The following counties and each of the disposal facilities located within their boundaries are authorized to receive Clinton County generated solid waste. With the exception of conditions noted, any limitations known to exist in order to provide for the export of Clinton County solid waste to the listed counties is stated next to the named county. Letters from facilities in Clinton, Shiawassee and Ionia Counties approving receipt of Clinton County waste are contained in Appendix BLA.

CONDITIONS

A. Each County which has a disposal facility must name Clinton County in their Plan as a county from whom they will accept waste for disposal.
B. Each County must name Clinton County in their Plan as a County to which they will export waste.
C. Those Counties presently without disposal facilities must warrant that if they should construct a facility during this Plan period, they will agree to accept Clinton County waste for import.
D. These warranties may be secured through a letter submitted to the Clinton County DPA, signed by the DPA of the County.

COUNTIES

Eaton County
Gratiot County
Ingham County
Ionia County
Shiawassee County

Douglas A. Bell, AICP
Community Planning Consultant

214 East State Street
Clare, Michigan 48617

Telephone & Fax: 517-386-6491
e-mail: dabell@voyager.net

November 5, 1998

Ms. Helen Laurenz
Gratiot County Department of Public Works
Gratiot County Courthouse
214 East Center Street
Ithaca MI 48847-1499

RE: Clare County Solid Waste Management Plan Update/Import Authorizations

Dear Ms. Laurenz:

The Clare County Solid Waste Management Planning Committee has recommended authorizing the importation of solid waste generated in Gratiot County for disposal at the Northern Oaks Recycling and Disposal Facility in Clare County. This information will be included in the draft Clare County Solid Waste Management Plan Update.

The Planning Committee has also proposed limiting the volume of solid waste ***from all sources*** that may be accepted for disposal at the Northern Oaks facility to a ***maximum*** of 3,000 cubic yards per day. The daily volume will be determined as a rolling five-year average.

The Planning Committee requests that you identify the Northern Oaks facility in Clare County for primary disposal of solid waste generated in Gratiot County in the "current export volume authorization" portion of your County Solid Waste Management Plan Update, subject to the overall volume limitation described above.

Please let us know if you intend to identify Clare County for acceptance of authorized solid waste exports from Gratiot County in your Solid Waste Plan Update as soon as possible. The Clare County Solid Waste Management Planning Committee will hold its next regular meeting on *November 24*, 1998. Your response by that date would be most helpful.

Thank you for giving this important matter your attention. Please call me at *517-386-6491* if you have any questions.

Sincerely,

Douglas A. Bell

Douglas A. Bell
Project Consultant to Clare County

xc: Clare County Solid Waste Management Planning Committee Members
Mr. Timothy Wolverton, Clare County Administrator

Region 2 Planning Commission

Jackson County Tower Building - 16th Floor
120 West Michigan Avenue
Jackson, Michigan 49201

Fax: 517-788-4635 **517-788-4426** Email: Region2@dmci.net

November 2, 1998

Ms. Helen Laurenz
Gratiot Co. Dept. of Public Works
214 East Center Street
Ithaca, MI 48847

Dear Ms. Laurenz:

The Jackson County Solid Waste Management Planning Committee, through the Jackson County Solid Waste Management Plan Update, would like to continue to recognize Gratiot County as eligible for import/export authorization. The committee proposes to maintain the current process of identifying counties with which Jackson may enter into agreements for the import/export of municipal solid waste, but requiring that formal agreements be made if the need to import or export becomes necessary.

Please consider this to be Jackson County Solid Waste Planning Committee's request to be recognized in the Gratiot County Solid Waste Plan Update as eligible for import/export authorization.

If you have any questions or concerns about this matter, please feel free to contact me at (517) 768-6711.

Sincerely,

Deborah L. Kuehn
Principal Planner

F:\DLK\SOLIDWAS\JACKSON\#3.LTR

PLANNING COMMISSION Telephone: (616) 467- 5617

125 W. Main St.
P.O. Box 277
Centreville, MI 49032-0277

DATE: April 20,1998

TO: All Lower Peninsula Designated Solid Waste Planning Agency Representatives

FROM: St. Joseph County Solid Waste Planning Committee

RE: Solid Waste Management Plan Import/Export Arrangements

The St. Joseph County Solid Waste Planning Committee intends on listing all Lower Peninsula Counties as authorized exporters of Type II solid waste to St. Joseph County. Westside Landfill, located near Three Rivers, is owned and operated by Waste Management of Michigan and has a licensed life capacity of approximately 12 years. In addition to the currently licensed capacity Westside has an additional 280 acres available for future development. Westside Landfill has a current annual cap of 1.75 million gate cubic yards of solid waste with St. Joseph County contributing approximately 255,000 gate cubic yards per year.

If your county wishes to utilize Westside Landfill as a disposal area St. Joseph County must be listed in your plan as an authorized import/export county. Arrangements for specific amounts of waste to be exported to Westside Landfill should be made with Waste Management 616-279-5444.

The St. Joseph County Solid Waste Planning Committee requests that reciprocal agreements, allowing St. Joseph County to export solid waste to your county, be included in your county plans for counties that wish to include St. Joseph County as an import/export county.

Please direct correspondence and inquires to:

Mr. Craig Laurent
Environmental Consultant
PO Box 44
Battle Creek, MI 49016
Phone 616-962-5082

Sincerely,

Craig Laurent, Environmental Consultant

Westside - St. Joseph County

St. Joseph
Kalamazoo
Calhoun
Van Buren
Cass
Branch
Berrien
Allegan
Barry
Hillsdale
Eaton
Ingham
Clinton
Ionia
Kent
Ottawa

A recent amendment to our host agreement will add all counties in the lower peninsula

WAYNE COUNTY

Edward H. McNamara
County Executive

July 21, 1998

DRAIN OFFICE
JUL 23 1998

Ms. Helen J. Laurenz
Gratiot County Department of Public Works
County Courthouse
214 East Center Street
Ithaca, MI 48847-1499

ATTN: Ms. Helen J. Laurenz
County Solid Waste Planning Agency

Dear Ms. Laurenz:

In the preparation of our 1998 update of the County Solid Waste Plan, Wayne County will consider recognizing all 83 counties in Michigan for import/export authorization if that is the desire of your County, and subject to the conditions outlined in the Plan. Wayne County will require a reciprocal agreement for the transfer of solid waste to your county in the event that your County has, or in the future sites, a solid waste facility.

If your County requests to be identified in our plan as an exporter of waste to Wayne County, your County should identify the maximum quantity of solid waste that your County wants authorization to export into Wayne County each year. Similarly each County willing to accept waste from Wayne County should identify the maximum volume of waste which Wayne County would be authorized to export to your County.

Wayne County will also require that each municipality within your County that wishes to export waste to Wayne County comply with the waste reduction and resource recovery goals of the Wayne County Plan. Compliance with this requirement is established by the submission of the appropriate resolutions from each County municipality to each solid waste facility within Wayne County that will receive waste from your County. Upon adoption, a copy of each municipal resolution should also be sent to this office.

DEPARTMENT OF ENVIRONMENT
3600 COMMERCE COURT • BUILDING E • WAYNE, MICHIGAN 48184
(734) 326-3936 FAX (734) 326-4421

Wayne County will accept a reciprocity agreement from your County if that is the method which you will utilize to document the agreements by the County to import and export solid waste. If you require a particular form for such a reciprocal agreement, please provide me with a copy of the form for our review.

You may want to review facility descriptions for the Wayne County solid waste facility or facilities, which your county, or a municipality in your county, proposes to export Type II or other waste from your County. You should contact each facility within Wayne County directly to determine if there are any specific stipulations, conditions, or restrictions that will affect the import of waste into each facility. As indicated above, Wayne County does require the submission of the appropriate resolutions from each County municipality that will export its waste to both this Department and the facility.

We do not yet have an estimated date for the completion and approval of the 1998 update of the Wayne County Solid Waste Plan. If I can provide any further information at this time, please let me know.

Future correspondence should be directed to my attention at this address.

Very truly yours,

Robert H. Fredericks

Robert H. Fredericks, Director
Land Resource Management Division

Woodland Meadows - Wayne County

The Wayne County Solid Waste Plan allows the import and export of waste from all counties in the state

DEPARTMENT OF ENVIRONMENT AND INFRASTRUCTURE SERVICES
PUBLIC WORKS DIVISION
110 NORTH FOURTH AVENUE
P.O. BOX 8645, ANN ARBOR, MI 48107-8645

August 7, 1998

Ms. Helen J. Laurenz
Gratiot County Department of Public Works
County Courthouse, 214 E. Center St
Ithaca, MI 48847-1499

Dear Ms. Laurenz,

In preparing its 1998 Part 115 Solid Waste Management Plan Update, Washtenaw County is considering recognizing all 83 counties in Michigan for import/export authorization. Exhibit A (attached) describes Washtenaw County's intended import/export authorizations, including quantities, for each county in the State. Please review this document carefully, noting particularly our proposed levels of solid waste importation from and exportation to your County.

Washtenaw County currently has one licensed and operational Type II landfill located within its borders, the Arbor Hills Landfill operated by Browning Ferris Industries. Per statutory requirements, it is necessary for both the generating and receiving county plans to explicitly authorize waste transfers and amounts. Washtenaw County is hereby requesting that your County authorize the receipt of Washtenaw County solid waste, in the quantity identified in Exhibit A, through explicit authorization in your solid waste plan.

Washtenaw County intends to release the draft of its Plan Update in October of this year. In order to ensure that your County's disposal needs are included in our Plan, and that our needs are likewise included in your Plan, we would appreciate receiving written notice of your import/export intentions by September 1, 1998.

Thank you for your attention to this matter. If you have any questions or concerns, please contact me at (734) 994-2398 or via e-mail at todds@co.washtenaw.mi.us.

Sincerely,

Susan Todd
Solid Waste Coordinator

Enc.

Cass County
Board of Commissioners

Courthouse
Cassopolis, Michigan 49031
Phone (616) 445-4420
Fax (616) 445-8978
Tax I.D. 38-6004839

To: Designated Solid Waste Planning Agency Representatives for:
Berrien, St. Joseph, Branch, Hillsdale, Lenawee, Monroe, Wayne, Washentaw, Jackson, Calhoun, Kalamazoo, Van Buren, Allegan, Barry, Eaton, Ingham, Livingston, Oakland, Shiawassee, Clinton, Ionia, Kent, Ottawa, Gratiot, Montcalm, Muskegon, Oceana, Newaygo, Mecosta, Isabella
Date: July 29, 1998
Re: Solid Waste Management Plan Update Import/Export Arrangements

The Cass County Solid Waste Planning Committee has identified 30 counties in Michigan as possible candidates for import/export authorization of solid waste. Cass County would like to list your county in our plan as an importer and exporter of solid waste. Cass County is requesting that your county plan update authorizes Cass County for 100 percent solid waste import and export.

Exportation of Cass County Solid Waste
Cass County will authorize the exportation of up to 100 percent of the Cass County solid waste stream to any of the counties listed above whose Solid Waste Management Plan specifically authorizes the acceptance of Cass County's solid waste.
Importation of Out-of-County Solid Waste
Currently, Cass County does not have any disposal areas within its borders. However, Cass County will list your county as a possible future importer of solid waste if a facility is ever sited within the County.

The Michigan Department of Environmental Quality requires that a letter of authorization for import and export of solid waste is included in the Plan Update. If your county decides to include Cass County as an importer and exporter of solid waste, please send a letter stating the authorization and any stipulations or conditions that may apply. Cass County would also like facility descriptions for each Type II and Type III landfill, Type A and Type B transfer station, incinerator, and waste-to-energy facility operating within your county.

To be able to complete the draft plan update, a prompt response letter would be greatly appreciated. Please direct all correspondence to the address below. If you have any questions or would like to discuss this matter in more detail, please call me at (616)925-1137 or e-mail swmicomm@cpuinc.net.

Sincerely,
Marcy Hamilton
Marcy Hamilton
Southwestern Michigan Commission
185 E. Main Street, Suite 701
Benton Harbor, MI 49022 fax (616) 925-0288

C:\MYDOCS\CASSSWMP\IMPORT.WPD

Special Conditions

Special conditions affecting import or export of solid waste.

SAUK TRAIL HILLS DEVELOPMENT, INC.

5011 S. Lilley Road
Canton, MI 48188
Phone: (313) 397-2790 Fax: (313) 397-2694

November 10, 1997

Ms. Helen J. Laurenz
Gratiot County Department of Public Works
County Courthouse
214 East Center Street
Ithaca, MI 48847-1499

Re: Gratiot County Solid Waste Management Plan Update
Explicitly Authorized Solid Waste Exports

Dear Ms. Laurenz:

I understand that Gratiot County has indicated to the Michigan Department of Environmental Quality ("MDEQ") that the County intends to prepare an update to its solid waste management plan (the "Plan Update") as required by Part 115 of the Natural Resources and Environmental Protection Act, and that you are the contact person for the Plan Update. As you may know, in order for a landfill located in one county to serve the disposal needs of another county, Part 115 requires that the solid waste management plans for both counties explicitly authorize such service. Further, although not expressly required under Part 115, MDEQ's "Guide to Preparing the Solid Waste Management Plan Update Format" recommends that a Plan Update explicitly identify the quantity of waste which may be exported to another county for disposal. The relevant pages of this MDEQ guidance document are enclosed. This letter formally requests that the Gratiot County Plan Update explicitly authorize each of the following landfills owned and operated by Allied Waste Industries, Inc. ("Allied") to serve up to 100 percent of the daily and annual disposal needs of Gratiot County:

Allied Landfill	Host County
Ottawa Farms (Coopersville, MI)	Ottawa
Sauk Trail Hills (Canton, MI)	Wayne

The existing MDEQ-approved solid waste management plan for Gratiot County apparently does not explicitly authorize the service requested in this letter. Allied believes that

its landfills can provide competitively priced, environmentally sound solid waste disposal services that are currently unavailable to Gratiot County residents under the existing plan.

Allied would be happy to provide the you with any information Gratiot County might require with respect to this request. Thank you for your attention to this matter and I look forward to hearing from you soon.

Very truly yours,

Laurie Kendall

Laurie Kendall
District Landfill General Manager
ALLIED WASTE INDUSTRIES, INC.

Enclosure

FAX: (313) 923-02
SALES FAX: (313) 923-33

April 10, 1998

Ms. Helen Laurenz
Gratiot County Department of Public Works
County Courthouse
214 East Center Street
Ithaca, Michigan 48847-1499

Re: Inclusion into Solid Waste Plan

Dear Ms. Laurenz:

City Environmental, Inc. (CEI) a leader in the treatment and disposal of hazardous waste is hereby requesting the opportunity to be included in your county's solid waste plan. Beginning in 1989, CEI has been actively involved with household hazardous waste programs (H H W) across the state. Over 1,250 collections performed to date, including the combined collections from our service division in Florida. We are proud to be able to offer your community alternatives to taking household hazardous wastes directly to a landfill.

We offer a service that allows for household hazardous materials including such items as bleach, ammonia, used oil, antifreeze, poisons, herbicides, and many other wastes, to be treated properly at a licensed and permitted hazardous treatment facility located here in the State of Michigan. The immediate benefits of this service are that it reduces the volume going into the landfills and takes most of the dangerous items out of household waste and diverts them for proper treatment. The long term benefits are that not only is it safer for the environment but also safer for the waste handlers who come across it on a daily basis, year after year. We are asking that your county to consider City's H H W programs as a viable alternative to landfilling materials as you would view composting or recycling as an alternative. Thank-you for taking the time and consideration to review our request. If you would like to learn more about our programs or have any questions regarding our facility, please contact me at (313) 923-0080, ext. 179 or Mr. Rod Nacker at ext. 139.

Sincerely,

Dawn D. New
Special Waste Representative

CITY

Recycled Paper

Ottawa County Environmental Health

Solid Waste Management Program

Memorandum

To: *Solid Waste Management Planning Committees/Designated Planning Agencies for:*

Allegan, Barry, Berrien, Branch, Calhoun, Cass, Clare, Clinton, Eaton, Gratiot, Ionia, Isabella, Kalamazoo, Kent Lake, Mason, Mecosta, Muskegon, Montcalm, Newago, Oceana, Osceola, St. Joseph, Van Buren Counties.

From: *Darwin J. Baas, Solid Waste Management Coordinator* Darwin J. Baas

Date: *Monday, June 22, 1998*

Subject: *Ottawa County Import/Export Authorizations for Type II/III Solid Waste*

In preparing the Solid Waste Management Plan Update, Ottawa County has recognized 24 counties within the disposal region for import and export authorization.

Importation of Out-of-County Solid Waste

Ottawa County has approved the counties listed above for disposal of Type II/III solid waste and authorizes solid waste from these counties to be deposited in licensed facilities located in Ottawa County. Solid waste may be imported from one or any combination of the above listed counties if explicitly authorized by the exporting county's Solid Waste Management Plan. Disposal of solid waste in licensed Type II facilities in Ottawa County is subject to an annual cap of 1,500,000 tons annually.

Exportation of Ottawa County Solid Waste

Ottawa County will authorize the exportation of up to 100 percent of the Ottawa County solid waste stream to any of the counties listed above whose Solid Waste Management Plan specifically authorize the acceptance of Ottawa County's solid waste.

Enclosed are copies of facility descriptions for the Type II landfills located in Ottawa County. We are requesting that you provide a facility description for each Type II and Type III landfill located within your county, provided the importation of Ottawa County solid waste will be authorized by your Plan. I will be calling you shortly regarding this information.

In the mean time, if you have any questions regarding the enclosed material, please feel free to call me at 616/393-5638.

Kathleen Klein
Public Sector Specialist

Southeast Michigan/Northern Ohio
10690 Six Mile Rd · Northville, Michigan 48167
Phone 248-349-7230 ~~Ext. 3247~~ · Fax 248-349-7572
www.bfi.com 3233

30% Post-Consumer

Ms Helen Laurenz
Gratiot County Dept of Public Works
County Courthouse
214 East Center Street
Ithaca, MI 48847-1499

RE Gratiot County Solid Waste Management Plan Update
Explicitly Authorized Solid Waste Exports

Dear Ms Laurenz

BFI Waste Systems of North America, Inc is a waste disposal company operating three Type II Sanitary Landfills in Michigan These disposal facilities are authorized to accept municipal refuse, non-hazardous industrial waste and non-hazardous contaminated soils These facilities are C&C Landfill in Calhoun County (south central Michigan), Arbor Hills Landfill in Washtenaw County (southeast Michigan) and Vienna Junction Landfill in Monroe County (also southeast Michigan) Included with this letter are the facility descriptions for each of the three BFI sites You will be required by the MDEQ to provide this information in your planning process

BFI understands that your county has indicated to the Michigan Department of Environmental Quality (MDEQ) its intention to update your solid waste management plan as required by Part 115 of the Natural Resources and Environmental Protection Act In order for a landfill located in one county to serve the disposal needs of another county, Part 115 requires that the solid waste management plans of both counties explicitly authorize such services The MDEQ also recommends, as part of your solid waste management plan update, that the updated plan explicitly identify the quantity of waste which may be exported to another county for disposal Current export/import authorizations for your county are listed in the MDEQ "Export/Import Authorizations in County Solid Waste Management Plan Updates - January 1996" A copy of this report can be obtained from the MDEQ

BFI's intent in sending this letter is to ask that your Solid Waste Planning Committee review its current export authorizations We would then ask that your committee consider providing for export authorization to the three counties identified above (Calhoun, Washtenaw and Monroe) in the event that your county should ever be in need of one of

these disposal facilities in the next five to ten years (as required by the solid waste planning process). BFI would also ask your committee to consider authorizing each of these three landfills to serve up to 100 percent of the daily and annual disposal needs of your county, again, in the event that this should ever be necessary.

BFI would be pleased to help your county to provide for its long term disposal needs. We looks to provide any assistance we may offer to you as you move through this solid waste planning update process. We would also be happy to attend any scheduled meetings at which you might request BFI to be present in order to discuss this request in more detail. I thank you for your attention to this request.

Sincerely,

Kathleen A. Klein
BFI Public Sector Representative

Encl.

AUTHORIZED IMPORTATION OF SOLID WASTE

From Clinton County and all sources listed in the following, disposal facilities located in Clinton County shall not receive more than a rolling average 1,800,000 gate cubic yards of solid waste for disposal per year. Counties listed are not required to meet any conditions other than the following:

CONDITIONS

A. Each County must name Clinton County in their Plan as a County to which they will export waste.
B. Each County which has a disposal facility must name Clinton County in their Plan as a county from whom they will accept waste for disposal.
C. Those Counties presently without disposal facilities must warrant that if they should construct a facility during this Plan period, they will agree to accept Clinton County waste for import.
D. These warranties may be secured through a letter submitted to the Clinton County DPA which is signed by the DPA of the County.

COUNTIES

Eaton County
Gratiot County
Ingham County
Ionia County
Shiawassee County

Authorized Importation of Solid Waste

From all sources, the Arbor Hills Landfill shall not receive more than 4.5 million gate cubic yards in any one year and no more than 17,500,000 gate cubic yards in the most recent consecutive five year period that concludes at the end of the current year of activity.

Subject to this overall limit, import of solid waste to the Arbor Hills Landfill from the following counties in the quantities specified is explicitly recognized in this Plan Update:

Jackson County – No more than 250,000 gate cubic yards of solid waste per year may be imported from Jackson County to the Arbor Hills Landfill.

Kalamazoo County - No more than 200,000 gate cubic yards of solid waste per year may be imported from Kalamazoo County to the Arbor Hills Landfill.

Lenawee County – No more than 750,000 gate cubic yards of solid waste per year may be imported from Lenawee County to the Arbor Hills Landfill.

Livingston County – No more than 750,000 gate cubic yards of solid waste per year may be imported from Livingston County to the Arbor Hills Landfill.

Macomb County – No more than 1,500,000 gate cubic yards of solid waste per year may be imported from Macomb County to the Arbor Hills Landfill.

Monroe County - No more than 1,500,000 gate cubic yards of solid waste per year may be imported from Monroe County to the Arbor Hills Landfill.

Oakland County – No more than 1,500,000 gate cubic yards of solid waste per year may be imported from Oakland County to the Arbor Hills Landfill.

Wayne County – No more than 2,000,000 gate cubic yards of solid waste per year may be imported from Wayne County to the Arbor Hills Landfill.

In addition, a total of no more than 500,000 gate cubic yards of solid waste may be imported from one or any combination of the counties listed below, subject to the overall limit identified above:

Alcona	Dickinson	Lake	Oceana
Alger	Eaton	Lapeer	Ogemaw
Allegan	Emmet	Leelanau	Ontonagon
Alpena	Genesee	Lenawee	Osceola
Antrim	Gladwin	Livingston	Oscoda
Arenac	Gogebic	Luce	Otsego
Baraga	Grand Traverse	Macinac	Ottawa
Barry	Gratiot	Macomb	Presque Isle
Bay	Hillsdale	Manistee	Roscommon
Benzie	Houghton	Marquette	Saginaw
Berrien	Huron	Mason	Saint Clair

Branch	Ingham	Mecosta	Saint Joseph
Calhoun	Ionia	Menominee	Sanilac
Cass	Iosco	Midland	Schoolcraft
Charlevoix	Iron	Missaukee	Shiawasee
Cheyboygan	Isabella	Monroe	Tuscola
Chippewa	Jackson	Montcalm	Van Buren
Clare	Kalamazoo	Montmorency	Wayne
Clinton	Kalkaska	Muskegon	Wexford
Crawford	Kent	Newago	
Delta	Keweenaw	Oakland	

These imports are contingent upon the export being explicitly recognized in the generating County's approved Part 115 Solid Waste Plan.

Authorized Export of Solid Waste

A portion of the County's waste stream may be disposed of at licensed facilities in other counties as specified in this Plan. Export of solid waste to the following counties in the quantities specified below is explicitly recognized and authorized in this Plan Update:

Jackson County: No more than 250,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Jackson County.

Kalamazoo County: No more than 200,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Kalamazoo County.

Lenawee County: No more than 750,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Lenawee County.

Livingston County: No more than 750,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Livingston County.

Macomb County: No more than 1,500,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Macomb County.

Monroe County: No more than 1,500,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Monroe County.

Oakland County: No more than 1,500,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Oakland County.

Wayne County: No more than 2,000,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in Wayne County.

In addition, a total of no more than 500,000 gate cubic yards per year of solid waste may be exported to licensed disposal facilities in the following counties:

Alcona	Dickinson	Lake	Oceana
Alger	Eaton	Lapeer	Ogemaw
Allegan	Emmet	Leelanau	Ontonagon
Alpena	Genesee	Lenawee	Osceola
Antrim	Gladwin	Livingston	Oscoda
Arenac	Gogebic	Luce	Otsego
Baraga	Grand Traverse	Macinac	Ottawa
Barry	Gratiot	Macomb	Presque Isle
Bay	Hillsdale	Manistee	Roscommon
Benzie	Houghton	Marquette	Saginaw
Berrien	Huron	Mason	Saint Clair
Branch	Ingham	Mecosta	Saint Joseph
Calhoun	Ionia	Menominee	Sanilac
Cass	Iosco	Midland	Schoolcraft
Charlevoix	Iron	Missaukee	Shiawasee
Cheyboygan	Isabella	Monroe	Tuscola
Chippewa	Jackson	Montcalm	Van Buren
Clare	Kalamazoo	Montmorency	Wayne
Clinton	Kalkaska	Muskegon	Wexford
Crawford	Kent	Newago	
Delta	Keweenaw	Oakland	

This authorization is contingent upon the receiving County explicitly authorizing the receipt of Washtenaw County waste in their approved Part 115 Solid Waste Plan.

Saginaw County Metropolitan Planning Commission
400 Court Street
Saginaw, Michigan 48602
Phone: (517) 797-6800 • Fax: (517) 797-6809

Date: September 24, 1998
To: Solid Waste Management Planning Committees:
Bay County, Clinton County, Genesee County, Gratiot County, Midland County, Shiawassee County, Tuscola County
From: Christina Pecoraro, Associate Planner CP
Re: Import/Export Agreements

The Saginaw County Solid Waste Management Planning Committee has identified your county as one that will be explicitly authorized to import and export waste in Saginaw County's 1998 Solid Waste Management Plan. There are three conditions that a contiguous county must meet in order to be authorized in Saginaw County's Plan. The three conditions are: 1) the waste volumes flowing between borders must not be higher than the identified maximum daily volumes (listed in attached document); 2) The contiguous counties must provide supporting information for import/export authorization (see attached document); and 3) Both counties (the sending and receiving) must explicitly authorize the import/export of waste in each other's plan. Please note that while reciprocal agreements are not required, they are still the preferred method.

The Supporting Information for Import/Export Authorizations is listed below and can also be found in the attached flow control proposal.

1. Name, address, and phone number of applicant/contact person.
2. Identify counties and/or businesses involved.
3. Identify proposed quantities, points of origin, and types of material for potential transfer between counties.
4. Describe Solid Waste alternatives (recycling, composting, resource recovery and reduction programs and technologies) in place in any communities or service areas within the subject county.
5. If agreements/authorizations are intended to be for less than the lifetime of this Solid Waste Plan, specify the time frame contemplated for this agreement.
6. Include facility descriptions for solid waste processing facilities in the subject County (refer to DEQ standard format).
7. List which counties are explicitly authorized for import/export of waste in the subject county's plan.

This information is required because the Solid Waste Planning Committee wants to learn more about

the solid waste programs in the contiguous counties and also wants to know what waste materials are being sent here. Please read through the approved flow control proposal.

I have also included the import/export section pages from the Solid Waste Plan in this packet. In order for the authorizations to be legal, both Plans must say the same thing. If you are interested in transferring waste between counties, we ask that you follow the steps listed in the attached document.

If you have any questions, please give me a call at (517) 797-6800.

Import/Export Authorization Conditions

Contiguous Counties:

This plan continues to authorize the seven contiguous counties for import and export of wastes across county borders. Reciprocal agreements are not required for the seven contiguous counties, but are preferred. If the authorized contiguous county meets all authorized conditions, waste may be transferred between counties without a reciprocal agreement.

The three conditions are:

1) The waste volumes flowing between borders must not be higher than the identified maximum daily volumes (listed in tables)
2) The contiguous counties must provide the Supporting Information for Import/Export Authorizations (found below) to the DPA
3) Both Counties (the sending and the receiving) must explicitly authorize the import/export of waste in each other's approved Solid Waste Management plans. (Part 115 of Act 451).

If one or more of these authorized conditions in the Plan are not met, a contiguous county is not authorized to import/export waste to and from Saginaw County until such time that all of the authorized conditions are met.

Upon receipt of the Supporting Information for Import/Export Authorizations by the Designated Planning Agency (Saginaw County Metropolitan Planning Commission), waste may begin flowing across the borders of the seven contiguous counties as long as all of the authorized conditions are met. A reciprocal agreement, for any amount up to the identified volume, as listed in the import/export tables, may be signed by the Chairman of the Saginaw County Board of Commissioners without further approval from the Board of Commissioners. These agreements would expire no later than December 31, 2004.

SUPPORTING INFORMATION FOR IMPORT/EXPORT AUTHORIZATIONS - CONTIGUOUS COUNTIES

1. Name, address and phone number of applicant/contact person
2. Identify Counties and/or businesses involved
3. Identify proposed quantities, points of origin, and types of potential material for transfer between counties
4. Describe Solid Waste alternatives (recycling, composting, resource recovery and reduction programs and technologies) in place in any communities or service areas within the subject county.
5. If agreements/authorizations are intended to be for less than the lifetime of this Solid Waste Plan, specify the time frame contemplated for the agreement
6. Include facility descriptions for solid waste processing facilities in the subject county (refer to DEQ standard format).
7. List which counties are explicitly authorized for import and export of waste in the subject county's plan.

Non-Contiguous Counties

Due to a number of recent waste industry mergers, competition has been somewhat limited in mid-Michigan. Based on this fact, the County will allow any Saginaw County citizen, business or municipality to request at any time that the County authorize a non-contiguous county in the Plan for the transfer of waste (with a reciprocal agreement or in conjunction with the authorized conditions set forth in this section). Saginaw County will also allow anyone from outside the County to submit a proposal for inclusion in the plan, if the proposal is sponsored by a Saginaw County resident, business or municipality, with sponsorship being clearly disclosed.

Each non-contiguous county proposal must contain, at a minimum, the Supporting Information for Import/Export Authorizations listed above, plus the following to even be considered:

1. Name, address and phone number of sponsor
2. Describe what goals from the Saginaw County Solid Waste Management Plan are not presently being met and how the proposed authorization or reciprocal agreement would help to achieve these goals.
3. Describe how the proposal increases competition for Saginaw County customers and/or improves the financial health of the company(ies) involved

These proposals shall be submitted to the Saginaw County Designated Planning Agency (Saginaw County Metropolitan Planning Commission). The DPA staff will ensure that each of the above listed items has been answered completely. If the proposal is complete, it will be sent to the Saginaw County Solid Waste Management Planning Committee, at their next quarterly meeting, for further review. If information is incomplete, the application will <u>not</u> be forwarded and the DPA will notify the applicant by letter of the applications shortcomings.

This Saginaw County Solid Waste Management Planning Committee will judge each proposal on the goals and objectives of this plan and criteria which may be adopted by the Planning Committee. These would include, but are not limited to:

1. Alternative systems in use in the proposed county for inclusion (i.e. Are recycling, composting, and resource recovery occurring in the proposed county to their maximum ability?)
2. Are local companies in poor financial health? Would including additional counties help them become financially stable again?
3. Are there multiple options for disposal of the materials that would be brought into Saginaw or is the other county relying exclusively on Saginaw County for disposal of its waste?
4. How does the proposal impact projections of available landfill capacity for Saginaw County waste?
5. Are all weather roads available for transport of waste between Saginaw County and the subject county?

Once the Solid Waste Committee has met to discuss the proposal initially, a public hearing will be held. The Solid Waste Committee, after the hearing and their own discussion, will make a recommendation to the Saginaw County Board of Commissioners on whether this Solid Waste Management Plan should be amended to include the subject county as an authorized importer/exporter. If the County Board approves the amendment, the local municipalities must

then vote on it and have at least 67% approval of the amendment. If there is enough local support, the DEQ must then approve it to officially become a part of the plan. Upon adoption of such a plan amendment, waste may be transferred between borders under the authorized conditions of the plan amendment (in the import/export section) or the Chairman of the Saginaw County Board of Commissioners would be authorized to sign a reciprocal agreement for up to the specified amount.

If the Solid Waste Planning Committee or the Board of Commissioners wants additional information before making their decision, they may assign the acting Designated Planning Agency to compile it.

Upon approval of this Saginaw County Management Plan Update by the MDEQ, all wastes being brought into Saginaw County for disposal from counties other than the above explicitly authorized sources, or those that the Board approves through a special request/plan amendment, will be considered in direct violation of the Plan and P.A. 451.

SOLID WASTE PLANNING COMMITTEE
TELEPHONE (517) 875-5207 FAX (517) 875-5262
214 E CENTER ST., COURTHOUSE
ITHACA, MI 48847
JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

February 28, 2000

Lynn Dumroese
Environmental Quality Analyst
Solid Waste Management Unit
Waste Management Division
P.O. Box 30241
Lansing, MI 48909-7741

Re: Gratiot County Solid Waste Management Plan

Dear Ms Dumroese:

Enclosed you will find a Copy of the following items:
1. Approval from the County Board of Commissioners
2. Approval of the Municipalities
3. Copy of the Public Notice

If you have any questions regarding this matter call me at the above number.

Sincerely,

Helen J. Laurenz
Helen J. Laurenz

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Waste Management

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SOLID WASTE PLANNING COMMITTEE
TELEPHONE (517) 875-5207 FAX (517) 875-5262
214 E. CENTER ST., COURTHOUSE
ITHACA, MI 48847
JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

March 22, 1999

MEMBERS PRESENT: James Vanderbeek, Kathy Doran, Dennis Fitzpatrick, Dean King, William Shrum, Howard Poindexter, Brenda Netzley.

MEMBER ABSENT: Doug Young, Sue Fortune, Ed Lorenz, Dave Herberholz, Lee Coughlin, Bob Barns, Mark Neitzke.

STAFF MEMBERS: Helen Laurnez, Carolyn Garrett.

OTHERS PRESENT: Glen Cheney, Supervisor of Newark Township, Aaron Van Horn of Great Lakes Disposal.

The meeting was called to order by Chairman Vanderbeek at 7:00 p.m. in the Law Library.

Roll call was taken.

Agenda

Motion by Fitzpatrick, supported by Netzley to approve the Agenda. Motion carried.

Minutes

Motion by Shrum, supported by Poindexter to approve the minutes of the Solid Waste Committee meeting of January 25, 1999. Motion carried.

Solid Waste Management Alternatives

Laurenz read the Solid Waste Management Alternatives 1 - 5 and answered and questions.

Solid Waste Collection Services and Transportation

Laurenz went over the waste haulers providing service to Gratiot County. Van Horn stated that he could not start a transfer station in New Haven Township, Section 13, on Pingree Road. He discovered that this township is not zoned for this type of business and there would not be the proper power available for him to run his compactor machine.

Shrum recommended that Van Horn check into the Renaissance Zone at St. Louis, MI.

System Components

Laurenz also reviewed B- 8, B- 9 and B- 10.

Laurenz presented the maps that would be scanned into the booklet. Also copies of the letters from other counties will be put in the proper section of the booklet.

Motion by Shrum, Supported by Netzley to approve the Booklet as prepared to this date and put out for the 90 day review as soon as possible. Motion carried.

The next regular meeting will be held on April 26, 1999, in the Gratiot County Law Library at 7:00 p.m.

Motion by Vanderbeek, supported by Fitzpatrick to Adjourn at 8:00 p.m. Motion carried.

Respectfully Submitted,

Helen Laurenz

Helen Laurenz, DPA
Carolyn Garrett, Secretary

Swm.10

SOLID WASTE PLANNING COMMITTEE
TELEPHONE (517) 875-5207 FAX (517) 875-5262
214 E. CENTER ST., COURTHOUSE
ITHACA, MI 48847
JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

April 26, 1999

MEMBERS PRESENT: Dennis Fitzpatrick, Dean King, William Shrum, Howard Poindexter, Mark Neitzke.

MEMBER ABSENT: Doug Young, Sue Fortune, Ed Lorenz, Dave Herberholz, Lee Coughlin, Bob Barns, Kathy Doran, Brenda Netzley.

STAFF MEMBERS: Helen Laurnez, Carolyn Garrett.

OTHERS PRESENT: Mary Fischer, USA Waste representing Dave Herberholz; Roger Slavik, Elba Township Supervisor.

The meeting was called to order by Vice Chairman Poindexter at 7:00 p.m. in the Law Library.

Roll call was taken.

Agenda

Motion by Neitzke, supported by Fitzpatrick to approve the Agenda. Motion carried.

Minutes

Motion by Fitzpatrick, supported by Shrum to approve the minutes of the Solid Waste Committee meeting of March 22, 1999. Motion carried.

Public Comment

Roger Slavik said he was just checking on the progress of the plan and would like a copy of the plan when completed.

Listed Capacity

Laurenz stated she needs to get the address for the transfer station in St. Louis that USA Waste has opened, Laurenz stated that she was told by the DEQ that if we had the location and the name of the operator of the transfer station in the plan it would automatically be approved.

(Solid Waste minutes continued)

Laurenz will contact the Clare County DPA on the amount of trash they will expect per day from Gratiot County for dumping. Laurenz will also contact Saginaw County Plan to increase the 50 ton per day allowance.

Maps

Laurenz presented the maps and letters from other counties that would be included into the plan.

Review of the Booklet

Motion by Shrum, supported by Fitzpatrick to approve the Solid Waste Update, and release it for Public Comment as soon as possible. Motion carried.

Laurenz will send a Draft copy of the Solid Waste Plan to the DEQ for review and start the 90 day review process.

The next regular meeting will be held on May 24, 1999, in the Gratiot County Law Library at 7:00 p.m.

Motion by King, supported by Fitzpatrick to Adjourn at 8:00 p.m. Motion carried.

Respectfully Submitted,

Helen Laurenz

Helen Laurenz, DPA
Carolyn Garrett, Secretary

Swm11

SOLID WASTE PLANNING COMMITTEE
TELEPHONE (517) 875-5207 FAX (517) 875-5262
214 E. CENTER ST., COURTHOUSE
ITHACA, MI 48847
JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

May 10, 1999

Notice is hereby given that the 90 day review period for the Solid Waste Planning Booklet will began on June 16, 1999 and end on September 13, 1999. Anyone wishing to review the Booklet may do so at the Gratiot County Drain Office. The Office is open from 8:00 a.m. to 5:00 p.m. Monday through Friday. You may call (517) 875-5207.

Gratiot County Solid Waste Chairman

James VanDerbeek

James VanDerbeek

Notice of a Public Hearing

Notice is hereby given that the 90 day review period for the Solid Waste Planning Booklet will began on June 16, 1999 and end on September 13, 1999. Anyone withing to review the Booklet may do so at the Gratiot County Drain Office. The Office is open from 8:00 a.m. to 5:00 p.m., Monday through Friday. You may call &517)875-5207

Gratiot County Solid Waste Chairman
James Vanderbeek

H:\WPDOCS\SWS.WPD

SOLID WASTE PLANNING COMMITTEE
TELEPHONE (517) 875-5207 FAX (517) 875-5262
214 E. CENTER ST., COURTHOUSE
ITHACA, MI 48847
JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

June 16, 1999

MEMORANDUM

To: Jim Johnson, Michigan Department of Environmental Quality

Gratiot County Board of Commissioners

Township Supervisors, Village Presidents and Mayors in Gratiot County

Allegan, Barry, Bay, Berrien, Branch, Calhoun, Cass, Clare, Clinton,,Eaton, Genesee, Gladwin, Hillsdale, Ingham, Ionia, Isabella, Jackson, Kalamazoo, Kent, Lapeer, Lenawee, Livingston, Mecosta, Midland, Montcalm, Muskegon, Monroe, Newaygo, Oakland, Ottawa, Saginaw, Shiawassee, St. Joseph, Van Buren, Wayne

FROM: Helen J. Laurenz, DPA , Gratiot County Solid Waste Planning Committee

RE: Request for Comments on Draft of Gratiot County Solid Waste Plan Update

The 90- day comment period for the draft Gratiot County Solid Waste Plan has opened on June 16, 1999 and will end September 13, 1999. Written comments can be sent to the following address:

Helen Laurenz
Designated Planning Agency
Courthouse
214 E. Center St.
Ithaca, MI 48847

If you have any questions about the plan or about the approval process, please feel free to call me at (517) 875-5207.

sws-6-16-99

SOLID WASTE PLANNING COMMITTEE
TELEPHONE (517) 875-5207 FAX (517) 875-5262
214 E. CENTER ST., COURTHOUSE
ITHACA, MI 48847
JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

June 24, 1999

To: The County Commissioners:

From: Helen Laurenz

Re: Solid Waste Update

The 90 day review process has started on the Gratiot County Solid Waste Plan. Our 90 day review started on June 16, 1999 and will end it on September 13, 1999. At the end of the 90 day review process the Department of Environmental Quality will give us their remarks or approval on our Plan. The Municipalities have the Plan for review the same time as the DEQ, after I get the approval or Denials from each Municipality I will fill in Page D-2 of the Booklet.

I am sending all the County Commissioners a copy of the booklet as it is before the remarks from the DEQ, so you will have more time to review it.

The Public hearing will be held on the day of July 2~~4~~0, 1999, at 7:00 p.m. in the County Commissioners room. This hearing will have the Full Solid Waste Committee members in attendance to hear the remarks from the public. I will bring it to the County Broad of Commissioners after September 13, 1999.

Written comments may be sent to the following address:

Helen Laurenz
Designated Planning Agency
Courthouse
214 E. Center St.
Ithaca, MI 48847

If you have any questions about the plan or about the approval process, please feel free to call me at (517) 875-5207, this is the process we are to follow according to the DEQ.

Sincerely,

Helen Laurenz

Helen Laurenz, Designated Planning Agency

swl-to-com

SOLID WASTE PLANNING COMMITTEE
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JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

July 26, 1999

MEMBERS PRESENT: Dennis Fitzpatrick, Dean King, William Shrum, Howard Poindexter, Lee Coughlin, Bob Barns, Kathy Doran, Brenda Netzley, James Vanderbeek.

MEMBER ABSENT: Doug Young, Sue Fortune, Ed Lorenz, Dave Herberholz, Mark Neitzke.

STAFF MEMBERS: Helen Laurnez, Carolyn Garrett.

OTHERS PRESENT: None.

The meeting was called to order by Vice Chairman Poindexter at 7:00 p.m. in the Commissioners Room.

Roll call was taken.

Agenda

Motion by Coughlin, supported by Barns to approve the Agenda. Motion carried.

Minutes

Motion by Barns, supported by Fitzpatrick to approve the minutes of the Solid Waste Committee meeting of April 26, 1999. Motion carried.

Public Comment

None.

Public Hearing of the Solid Waste Management Plan

Laurenz went through the Solid Waste Booklet. The Booklet was submitted to the DEQ on June 16, 1999. After this hearing we will wait to hear from the DEQ for their comments or approval. Than the 90 days will be up on September 13, 1999, and a letter will be sent to the Gratiot County Commissioners. We also need to hear from the municipalities for their approval. When we receive all of these things the plan will then be completed.

(Solid Waste minutes continued)

Vanderbeek commended Laurnez and her staff and the committee on a job well done and keeping the cost to prepare the booklet down. If we would have hired a consultant it would have cost the county more that $30,000.00 plus and we have kept the cost down to around only $3,000.00.

Their was some discussion on illegal dumping in the county and that it would be an asset to the county if the Gratiot County Commissioners would adopt having trash pickup fee on the taxes. This would help clean the county up.

The next regular meeting will be held on September 27, 1999, in the Gratiot County Law Library at 7:00 p.m.

Motion by King, supported by Fitzpatrick to Adjourn at 8:00 p.m. Motion carried.

Respectfully Submitted,

Helen Laurenz

Helen Laurenz, DPA
Carolyn Garrett, Secretary

Swm 12

SOLID WASTE PLANNING COMMITTEE
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JAMES VANDERBEEK, CHAIRMAN
HOWARD POINDEXTER, VICE CHAIRMAN
HELEN LAURENZ, DESIGNATED PLANNING AGENCY

October 25, 1999

MEMBERS PRESENT: William Shrum, Howard Poindexter, James Vanderbeek, Helen Laurenz, Carolyn Garrett.

MEMBER ABSENT: Mark Neitzke, Denise Fitzpatrick, Dean King, Doug Young, Sue Fortune, Ed Lorenz, Dave Herberholz, Lee Coughlin, Bob Barns, Kathy Doran, Brenda Netzley.

The meeting was called to order by Chairman Vanderbeek at 7:00 p.m. in the Law Library.

Agenda

Motion by Shrum, supported by Poindexter to approve the Agenda. Motion carried.

Minutes

Motion by Poindexter, supported by Shrum to approve the minutes of the Solid Waste Committee meeting of April 26, 1999. Motion carried.

Laurenz went over the plan were the Department of Environmental Quality suggested a few changes in the Solid Waste Plan. Shrum and Poindexter stated they feel the 16 transfer stations should remain in the plan.

Motion by Poindexter, supported by Shrum to approve the changes to the Solid Waste Plan. Motion carried.

Motion by Shrum, supported by Poindexter to Adjourn at 7:31 p.m. Motion carried.

Respectfully Submitted,

Helen Laurenz

Helen Laurenz, DPA
Carolyn Garrett, Secretary

S w.m 13

OFFICE OF COUNTY CLERK
County of Gratiot

P.O. Drawer 437
Ithaca, Michigan 48847
Ph. 517-875-5215
517-875-5216

PAULINE M. MERCHANT
Clerk

ICIA CHADDERDON
Chief Deputy Clerk

SUE A. SMOLKA
Deputy Clerk

NORMA BENESH
Accounts Payable-Manager/Bookkeeping

LYNN HULL
Clerk-Typist

I, Pauline M. Merchant, Gratiot County Clerk, do hereby certify that the following motion constitutes a true and complete copy of the action adopted by the Gratiot County Board of Commissioners at their recessed meeting held on Tuesday, September 21, 1999.

> "Motion by Heathcock to approve the County Solid Waste Management Plan as presented, subject to final changes. Supported by Merignac and carried."

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the Seal of the Court this 28th day of February, 2000.

Pauline M. Merchant

Pauline M. Merchant, County Clerk

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Pine River Township of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Lofgren

Support: Loper

Aye: Linn, Lofgren, Loper, Smith and VanderVeen

Nay: None

Abstain: None

Attested by: Mary LaPenna

Pine River Township Clerk
Title

Dated: September 8, 1999

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Pine River Township Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Marilyn Linn

Support: Gary Lofgren

Aye: 4

Nay: 0

Abstain:

Attested by: Gary Lofgren

Clerk
Title

Dated: November 10, 1999

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Board of Sumner Township of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: # 1224

Support: Jerry Trask, Trustee, Seconded Laney Barton trustee

Aye: 4, Carlene McGill, Clerk, Angela Martin, Treasurer Laney Barton & Jerry Trask Trustee

Nay: 0

Abstain: 0

Attested by: Carlene McGill

Township Clerk
Title

Dated: September 25, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Breckenridge Village Council of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Councilperson Juskialas

Support: Councilperson Neitzke

Aye: Bott, Juskialas, Neitzke, Wadowski, Wolff and Seeley

Nay: None

Abstain: None

Attested by: Karen S Rohn
Karen S. Rohn
Village Clerk
Title

Dated: September 27, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Alma City Commission of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Commissioner Nyman

Support: Commissioner Stone

Aye: Davis, Lyon, Moore, Nyman, Riemersma & Stone

Nay: None

Abstain: None

Attested by: William M. Stuckey

William M. Stuckey
City Clerk/Treasurer
Title

Dated: September 28, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Township of North Shade of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: James Proctor

Support: Harold Spiece

Aye: 4 Four

Nay: 0 None

Abstain: None

Attested by: James Proctor

North Shade Twp Clerk
Title

Dated: Sept. 22, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the St. Louis City Council of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Kubin

Support: Shrum

Aye: Kubin, Shrum, Boyd, Kelly, Rusch

Nay: None

Abstain: None

Attested by: Nancy L. Roehrs

City Clerk
Title

Dated: October 4, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the North Star Township Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Robin Marhofer

Support: Bob Brandal

Aye: Dave Wetzel, Bob Brandal, Joan Lowery, Robin Marhofer, Heidi Drowley

Nay: none

Abstain: none

Attested by: Heidi M Drowley

Clerk
Title

Dated: 10-18-99

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Bethany Township of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Duane Sherwood

Support: Trusha Mikel

Aye: all

Nay: ~

Abstain: ~

Attested by: Trusha Graham-Mikel
Clerk
Title

Dated: 10-12-99

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Seville Township Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: John Gott

Support: Colleen Brantley

Aye: John Gott, Colleen Brantley, Dorothy Mallory, & Bonnie Carroll

Nay: None

Abstain: Absent: Rodger Grant

Attested by: Bonnie M. Carroll

Seville Township Clerk
Title

Dated: October 13, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the NEWARK Township of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Lee Skinner

Support: Ron Davis

Aye: 4

Nay: 0

Abstain: 1

Attested by: LOREN Roslund

Clerk

Title

Dated: Oct 11 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Ithaca City Council of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Councilperson Bailey

Support: Councilperson Monroe

Aye: Councilpersons, Burch, Teachman, Schafer, Gruesbeck Bailey, Monroe and Mayor Thomas

Nay: None

Abstain: _____

Attested by: Gayla Foster

City Clerk
Title

Dated: October 5, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Lafayette Township Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Brian Gulick

Support: John Stoneman

Aye: Julie Bolt, Bonnie Aldrich, Dorothy Glover

Nay: _____

Abstain: _____

Attested by: _____

Julia F Bolt

Title Julia F. Bolt, Clerk

Dated: November 3, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the New Haven Twp. Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Doran To Accept

Support: Barnes

Aye: Longanbach, Peacock, Doran, Smith, Barnes

Nay: None

Abstain: None

Attested by: Robert Barnes

Clerk
Title

Dated: 12-8-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Arcada Township of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Alfred Silhavy

Support: Keith Flegel

Aye: 3

Nay: 0

Abstain: 0 2 were absent

Attested by: Alfred Silhavy

Arcada Township Clerk
Title

Dated: December 14, 1999

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Emerson Twp. Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Phil Tuggle

Support: Mike Reeves

Aye: Mike Reeves, Phil Tuggle, Judith Eichorn, Sue Smith, Dale Weburg

Nay: 0

Abstain: _____

Attested by: _____

_____
Title

Dated: 10-11-99

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Hamilton Twp. Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Phil Hamus

Support: Marguerite Bradley

Aye: All

Nay: 0

Abstain: 0

Attested by: _____

_____
Title

Dated: 12-1-99

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the Wheeler Twp. Board of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: Jim Kennedy

Support: Julie Jenkins

Aye: ALL

Nay: 0

Abstain: 0

Attested by: _____

_____
Title

Dated: 12-7-99

motion4-24-99

MOTION FOR APPROVAL

Gratiot County
Solid Waste Management Plan
Five Year Update Amendment

By action of the FULTON TOWNSHIP BOARD of Gratiot County, Michigan, it is hereby moved to approve the Gratiot County Solid Waste Management Plan Five Year Update Amendment, as presented by the Gratiot County Department of Public Works, pursuant to Part 115 of Michigan Public Act 451, as amended.

Motion: By Harry Vaughn

Support: By Josephine Kissane

Aye: 0

Nay: 4

Abstain: Glen Winsor Absent

Attested by: Diane L. Ruedger
Diane L. Ruedger
Fulton Township Clerk
Title

Dated: September 30, 1999

motion4-24-99