STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES & ENVIRONMENT
LANSING

JENNIFER M. GRANHOLM
GOVERNOR

REBECCA A. HUMPHRIES
DIRECTOR

October 5, 2010

Mr. Chris Randall, Chairman
Van Buren County Board of Commissioners
219 Paw Paw Street, Suite 303
Paw Paw, Michigan 49079

Dear Mr. Randall:

The locally-approved amendment to the Van Buren County Solid Waste Management Plan (Plan amendment) received by the Department of Natural Resources and Environment (DNRE) on April 13, 2010, is hereby approved with modification. The Plan amendment required a modification that was sent to Van Buren County on August 9, 2010. The modification approval was received from Van Buren County on August 31, 2010.

The Plan amendment creates the following changes:

- Contact and Repository information has been updated
- Authorized Disposal Area Types have been added
- A siting criteria and process have been added
- Appendix C: Committee Members has been updated
- Appendix E: Glossary has been added

The DNRE would like to thank Van Buren County for its efforts in addressing its solid waste management issues. If you have any questions, please contact Ms. Rhonda Oyer Zimmerman, Chief, Solid Waste Management Unit, Solid Waste and Land Application Section, Environmental Resource Management Division, at 517-373-4750; oyerr@michigan.gov; or DNRE, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Liane J. Shekter Smith, P.E., Chief
Environmental Resource Management Division
517-373-9523

cc: Senator Thomas George
Senator Ron Jelinek
Representative Tonya Schuitmaker
Ms. Beth Clawson, Van Buren County MSU Extension
Ms. Rebecca A. Humphries, Director, DNRE
Mr. Jim Sygo, Deputy Director, Environmental Protection, DNRE
Mr. Gary Owen, Legislative Liaison, DNRE
Mr. Steve Sliver, DNRE
Mr. Fred Sellers, DNRE
Ms. Rhonda Oyer Zimmerman, DNRE
Ms. Becky Beauregard, DNRE
Van Buren County File

MICHIGAN STATE
UNIVERSITY
EXTENSION

April 8, 2010

Becky Beauregard
Solid Waste Management Unit
Storage Tank and Solid Waste Section
Waste and Hazardous Materials Division
Michigan Department of Natural Resources and Environment
Post Office Box 30241
Lansing, Michigan 48909

Dear Becky,

Please find enclosed the final draft of the 2009 Amendment to the Van Buren County 2000 Solid Waste Plan and supporting documents.

Changes include:

- Updated contact and repository information
- Changes in authorized disposal area types
- Siting criteria and process
- Appendix C committee members update
- Appendix E addition of a glossary.

If you have questions, please contact me.

Sincerely,

Beth Clawson

Beth Clawson

Van Buren County
MSU Extension

219 Paw Paw St, Ste 201
Paw Paw, MI
49079-1077

269-657-8213
FAX: 269-657-6678

e-mail:
msue80@.msu.edu

website:
www.msue.msu.edu/vanburen

Waste & Hazardous
Materials Division

APR 13 2010

Bringing Knowledge to Life!

This document outlines proposed amendments to the Van Buren County Solid Waste Management Plan: Update June 2000

0. Cover Page: update Contact information
1. Authorized Disposal Area Types
   1.1. Insert page III28a: description and list of Authorized Disposal Area Types changing "NA" of Processing Plan and Sanitary Landfill and written Siting Criteria and Process
   1.2. Insert pages as needed III-28b through III-28n describing Siting Criteria and Process
   1.3. Insert page III-30a: changing Identification of Responsible parties
2. Appendix
   2.1. Insert pages with Glossary.
   2.2. Insert page c-2a naming the current solid waste planning committee.

2009 Plan Amendment 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 an amendment to the Plan.

Date Submitted to the DEQ:

April 12, 2010

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN'S AMENDMENTS:

Van Buren County MSU Extension

CONTACT PERSON:	Beth Clawson
ADDRESS:	219 Paw Paw St., Suite 201 Paw Paw, MI 49079
PHONE:	269-657-8213
FAX:	269-657-6678
E-MAIL:	clawsonb@msu.edu

CENTRAL REPOSITORY LOCATION(S):

Van Buren County MSU Extension

219 Paw Paw St., Suite 201

Paw Paw, MI 49079

SITING REVIEW PROCEDURES

In the Solid Waste Management Plan Update - September 2000, Van Buren County had demonstrated 5 and 10 years of disposal capacity for solid waste generated within the county. The Solid Waste Management Plan did not include future solid waste facility siting procedures in the document stating that "Van Buren County's current disposal needs were met." However, solid waste management includes other types of facilities that are consistent with the goals and objectives of this Plan. This amendment is set forth to allow solid waste processing, recycling processing, and transfer stations to be sited within the boundaries of Van Buren County.

Authorized Facility Types

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

Hazardous waste landfills [Type I]
Type II landfills
Type III landfills
Incinerators
Waste to Energy Facilities

The following solid waste facilities may be sited by this Plan.

Solid Waste Processing Plants
Type A Transfer Stations
Type B Transfer Stations
Other (as described in PA 451 Part 115)

The following facilities do not require consistency determination.

Solid Waste Material Recovery Facilities (MRF)

Definitions

See Appendix E

Siting Criteria and Process

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

Van Buren County has determined that its solid waste needs may be better served to allow for additional alternative solid waste management options. This amendment to the Plan includes the following facility siting procedure.

Fees

The applicant will provide an application fee calculated at current County per diem rates for convening the board plus current mileage, and a flat processing fee of $50 to the Designated Planning Agent (DPA) along with their application and accompanying documents to cover actual application and review process costs.

Agreement Options

The applicant must choose an appropriate option below. If County capacity falls below 10-years; Option 1 will no longer be available and all applicants must choose Option 2.

Local Government Agreement (Option 1)

This option is available for Type A & B Transfer stations only. The applicant and the governing body of the local governmental jurisdiction where a facility is proposed to be sited (the host community), and the county will sign a legally binding civil agreement which shall include the following:

1. A statement concluding that the proposed transfer station is consistent with the Plan's goals and objectives and meets the siting requirements described in part C: Application Requirements and part D: Criteria for Evaluation outlined in the Application to County (Option 2) below.
2. A means of amending or updating the agreement.
3. Duration of the agreement.
4. Any consequences of a breach of the agreement by either party.

Host communities are strongly urged to consult with the County planning department, County health department, the public agency(ies) with jurisdiction over any streets or roads providing access to a site, any public works departments whose services might be affected, their own planning entity (department, commission, zoning board) and consultants that might be deemed to be of value. Host communities are cautioned not to address subjects for which the Michigan Department of Environmental Quality exercises preemptive control (i.e. air quality).

In the case where a local governmental unit itself is applying to develop a facility at a site under the jurisdiction of another local unit(s) of government, the procedure above will apply. The applying local unit shall be considered the applicant. In the case where a local governmental unit itself is applying to develop a facility at a site under their own jurisdiction, it may not enter into an agreement with itself.

As soon as a host community agreement process is initiated, the local unit of government involved shall notify all residents and landowners within one (1) mile of the proposed site, in writing, that negotiations are taking place for the siting of a new solid waste transfer facility. The notice shall allow residents and landowners not less than fifteen (15) days to send written comments to a designated local unit of government.

A host community agreement shall first be drafted and negotiated between the host community and the applicant. Then the draft agreement shall be forwarded to the County DPA. When the County is satisfied with the content of the agreement, the agreement shall be given back to the local unit of government. The local unit of government Board or Council shall then vote on the agreement. If the agreement is passed and signed, it shall be forwarded to the County Board of Commissioners (BOC) for approval. Within fifteen (15) days of the BOC signing an agreement, the DPA shall provide a letter to the applicant, the chief elected official of the host community and all residents, and landowners within one (1) mile of the site, determining that the proposed facility is consistent with the Plan.

If either the local unit of government or the BOC do not vote in favor of the agreement, then the agreement shall be renegotiated. If an agreement between the parties cannot be reached, then the applicant must go through the County application procedure listed in the part E. Appeal Process below.

A determination of consistency shall provide a one-year period wherein the applicant is eligible to initiate Michigan Department of Environmental Quality (MDEQ) construction (and/or other applicable) permit applications. If a MDEQ facility construction permit has not been initiated within one (1) year or it has been denied, the applicant must reapply to the host community and the county, before reapplying to the MDEQ. If an amendment is made to the proposed site plan subsequent to signing the Civil Agreement, evidence of the amendment must be made to the host community and the County DPA.

Application to County (Option2)

The second choice is a required element of the County Solid Waste Management Plan. This is the only option for an applicant wishing to develop a solid waste facility, as long as the BOC has voted to activate the Solid Waste Management Planning Committee and the siting criteria.

This choice provides a definite procedure of review, a time frame, and specific criteria for determining consistency with this plan. The applicant must show the impacts that the proposed facility might have on natural resources, traffic patterns, adjacent land usage how the proposed use can harmoniously coexist with the adjacent property uses and potential future use.

The Van Buren County Solid Waste Management (SWM) Planning Committee will be responsible for review of applications and for determining whether or not the proposed solid waste facilities are consistent with the Van Buren County Solid Waste Management Plan. The SWM Planning Committee shall use the following criteria, information, and process when reviewing proposals and determining consistency.

A. Administrative Process

The following administrative process will be followed when a proposed solid waste facility is brought before the SWM Planning Committee by a prospective developer or by the county:

1. The prospective developer shall go before the SWM Planning Committee with a written request and all required documentation as required in parts C and D and will pay the required review fee.

2. Within thirty (30) days of receipt of the proposed project and all required documentation, the SWM Planning Committee will establish a public review period of ninety (90) days and set a date for public hearing to be held at the end of the public review period.

3. The public hearing will be conducted by the Van Buren County SWM Planning Committee.

4. The public hearing will be preceded by a notice in a newspaper of general circulation at least thirty (30) days prior to the hearing.

5. The SWM Planning Committee shall seek comments by the County Planning Commission, County Road Commission, County Drain Commission, County Health Department, and any other agencies related to land use issues.

6. The SWM Planning Committee shall seek comments by the local government in which the proposed development would be located and from affected neighboring governments.

7. The SWM Planning Committee may also choose to hire an outside consultant to assist with this evaluation. The developer will be responsible for paying all reasonable fees associated with this review as agreed upon by all parties before consultant is engaged.

8. Within forty-five (45) days following the public hearing, the SWM Planning Committee shall make its determination of consistency using the criteria described in part D below. SWM

Planning Committee may take longer to make its decision if agreed upon by the applicant in writing.

9. If a determination is not made within 165 days of receipt of all required information (or the time allowance agreed upon by the applicant in writing) the proposal will be considered to be approved.

10. The SWM Planning Committee must provide written determination of consistency or inconsistency that includes reasoning and facts which support their decision.

11. The developer may appeal the decision of the SWM Planning Committee through the process as presented in part E. Appeal Process.

B. Community Considerations

In preparing this amendment to the Van Buren County Solid Waste Management Plan, the Solid Waste Management Planning Committee has prepared the following for consideration when siting and designing a solid waste processing or transfer facility. This section deals with issues relating to the protection of our community's character and natural resources, lessening negative impacts of development on neighbors and the community as a whole. These are as follows:

1. The proposed facility is designed to accommodate and encourage reuse and recycling, and is located to meet the possible needs of a multi-county service area, utilizing major transportation routes.
2. The initial hydrogeological study indicates probable compliance with statutory requirements (a consultant may be useful in determining this).
3. The signed engineering reports and draft plans indicate probable compliance with statutory standards (a consultant may be useful in determining this).
4. The proposed facility is compatible in appearance with surrounding land uses by open space or isolation areas, buffering, screening, fencing, light pollution controls, or other techniques.
5. The proposed facility layout (including the buildings, parking areas, etc) is designed to retain as many natural features on the site as possible and to minimize adverse effects on natural features and surrounding land uses.
6. The capacity of local public services required meeting the needs of the proposed facility, including fire protection, police, ambulance, road maintenance and snow removal, emergency services, sewer, water, sanitation, and utilities will either:
    a. Already exist at levels such that the local government will not incur substantial additional costs, or
    b. Be improved as necessary by the applicant, under guarantee of a performance surety to the county, or

c. Be provided by the proposed facility for its own use, with no demand on public services.

7. The proposed facility appropriately addresses other areas of concern: noise, hours of operation, light pollution, litter control, screening or other measures to afford surrounding land uses protection, end use of the site, monetary contributions, public services, and payments for extraordinary use of public services.
8. The entrance of the proposed facility is located on an existing Class A Road or the developer has guaranteed a plan for building, improving and maintaining a road to Class A standards.
9. The proposed facility is in compliance with PA 451 and all associated amendments and rules in effect at the time of application.
10. Procedures have been established for management, handling, transport, and disposal of all incoming wastes, and incidental wastes associated with the ongoing processes of the proposed facility.
11. Procedures have been established which minimize all aspects of environmental impact including, but not limited to, air, ground and surface water, soil, light and noise pollution, odor, vibrations, and aesthetic considerations.
12. To lessen the impacts on surface water and groundwater quality utilize low impact development. Structural and non-structural best management practices are described in the Low Impact Development Manual for Michigan: A Design Guide for Implementers and Reviewers. Low impact development techniques which are appropriate for site conditions should be utilized to reduce storm water runoff by slowing it down, spreading it out and soaking it in as much as possible. Only as a last resort should storm water be removed from all roofs, canopies and paved areas and carried away in an underground piped drainage system.
13. Landscaping using plants native to southwest Michigan. Use of non-native invasive plant species is strongly discouraged.
14. To the extent possible, the proposed facility should preserve the natural topography of the site.

C. Application Requirements

The following are minimum standards and if any state or federal laws are more stringent, the highest standard will apply. The developer of a proposed new or expanded solid waste facility shall submit the following information to the SWM Planning Committee:

1. The applicant's name and address in full, and the principal offices and resident agent of the business, if the applicant is not the sole proprietor.

2. A notarized statement that the applicant is either owner of the land involved, acting on behalf of the owner, or has an option to buy said land.

3. A written statement that the proposed development is consistent with proven technologies and with all statutory changes to and requirements of PA 451.

4. Documentation of state and federal compliance for bonding of financial resources.

5. Documentation of a Phase I Environmental Site Assessment conducted in accordance with the most recent American Society of Testing Materials (ASTM) standard.

6. Identification of all wells (domestic, industrial, municipal, oil, gas) within 1/2 mile of the site, and Wellhead Protection Areas will be indicated on an area map or site plan overlay.

7. Identification of all existing surface water bodies including drainage ditches, streams, rivers, ponds, lakes, wetlands, and 100-year floodplains will be indicated on an area map or site plan overlay.

8. A hydrogeological report prepared by a qualified hydrogeologist or registered professional engineer as per the State Professional Standard of Care. This report shall include:

   a. A narrative about existing groundwater and surface water quality and a disclosure should be described of known or suspected risks to groundwater affecting the study area.

   b. Conclusions about the environmental impacts association with the proposed development. The conclusions should be supported by scientific reasoning and should include a discussion of any uncertainties and/or alternative interpretations.

   c. Provide a statement of the limitations or disclaimers.

9. A site plan of the proposed project that includes the following elements:

   a. The site plan must be drawn on a scale of no more than 100 feet to the inch and must be prepared by a registered professional engineer.

   b. The parcel(s), identified by address, parcel lines and location, including dimensions, angles and size, corresponding to, and including, the legal description of the parcel(s).

   c. The scale, north point, boundary dimensions, topography (with two-foot contour intervals), and existing natural features, such as woodlots, streams, rivers, lakes, ponds, wetlands, drainage ditches or conveyances, 100-year floodplains, and sand dunes.

   d. Soil survey data, regarding the soils and their compatibility with the proposed use.

e. Existing man-made features, such as buildings, high-tension towers, pipelines (water, sewer, or gas), underground cables, excavations, bridges, culverts, drains and easements.

f. Adjacent properties and their existing land uses including the identification of any structures and their uses within 300 feet of the property boundary.

g. The location, size, height, and finished floor and grade line elevations of all proposed buildings.

h. The proposed sidewalks, driveways, roads, and other transportation features within and adjacent to the site.

i. The location, number, and size of parking spaces in the off-street parking area and the identification of service lanes and service parking.

j. The location, use, and size of any open space areas, and the identification of any proposed landscaping, fences, or walls on the site;

k. The location of naturally vegetated buffers (a minimum 100 feet deep) along all lakes, rivers, streams, and wetland areas.

l. The proposed connections to or expansions of existing utilities.

m. The proposed location and sizing of storm water management techniques.

n. Documentation showing compliance with state and federal air pollution control requirements.

o. Show the location of the entrance on a paved road. If a proposed facility site is not located on an existing "class A" road, the proposed plan will provide for upgrading and/or maintenance of the public access road or roads to the site.

p. A collection system and/or management plan which documents compliance with state and federal laws regarding water quality controls.

10. Documentation showing compliance with the Van Buren County Drain Commission's *Subdivision Drainage Rules and Storm Water Design Criteria*. (This document is available at http://vbco.org/government0365.asp under Site Plan Review.)

11. If the proposed project is a processing facility, a site plan for the facility after it has been closed.

12. An operation and management plan that will include, at a minimum, the following:

a. Provisions for site security and access control.

b. Procedures to monitor source, volume, and suitability of wastes entering the site.

c. Provisions for housekeeping, litter control (to include access road housekeeping and monitoring the load security of vehicles exiting and entering the site), and odor controls.

d. Provisions for management, handling, transport, and disposal of all incidental wastes which are a result of ongoing processes at the site.

e. Wet-weather site provisions and measures to mitigate vehicle transport of soil or mud onto public roadways.

13. Narrative statements concerning:

a. The impact of the proposed development on the existing site with regard to soil erosion, wildlife habitat, air quality, surface and ground water quality, and noise and vibration levels, light pollution, and methods for limiting that impact.

b. Expected demands on community services (fire, police, roads, utilities, etc) and how these demands are to be met.

D. Criteria for Evaluation

A proposal will be considered consistent with the Van Buren County Solid Waste Management Plan objectives, if the SWM Planning Committee confirms all the following statements:

1. Documentation from Section C above is complete including narrative.

2. The proposed facility including, appurtenances, parking surfaces, service roads, etc. shall be set back
   a. 300 feet from any residential lot line, church, park, preschool, or school unless permission is otherwise granted in writing by the current land owner.
   b. 1,000 feet from adjacent designated *protected lands* where absence of such setback would result in harm, impairment and/or destruction of natural features contrary to the public health, safety and general welfare]
3. The proposed facility is not located in the 100 year floodplain, nor has impervious surfaces planned within the 100 year floodplain, and has a minimum 100 foot naturally vegetated buffer along surface water features (river, stream, drain, pond, lake, and wetland) on the site.

E. **Appeal Process**

1. If, a proposed development is found to be inconsistent with the Van Buren County Solid Waste Management Plan by the SWM Planning Committee or a failed host community agreement. An appeal by the developer may be made to the County Board of Commissioners within thirty (30) days of the decision by the SWM Planning Committee. The appeal hearing between the developer and the County Board of Commissioners must be held within forty-five (45) days of receipt of the request by the County Board Chairman. A review meeting can be adjourned for up to thirty (30) days to gather further information.

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

3. The review hearing will be preceded by at least one public notice in a newspaper of general circulation at least thirty (30) days prior to the date of the meeting.

4. At the time an appeal is received by the Board of Commissioners, the Board shall notify the County Planning Commission, County Road Commission, County Drain Commission, County Health Department, and any other agencies related to land use issues.

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

This text replaces that described on page III-30a.

Disposal Areas:

Processing Plant: Private Sector

Incineration: NA

Transfer Stations: Private Sector & Local Municipalities

Sanitary Landfills: NA

2009 VAN BUREN COUNTY SOLID WASTE PLANNING COMMITTEE
Committee member names and the company, group, or governmental entity represented are listed below.

4 - Solid Waste

Mike Matheny, Owner
Clark's Auto Parts Metal Recycling
56472 Red Arrow Hwy.
Lawrence, MI 49064
269-674-4905

Eric Shafer, Manager
WM Westside Landfill
14094 M-60 West
Three Rivers, MI 49093
269-279-5444x15

Michael Dempski, Owner
Deerpath Recyclers
P.O. Box 7
Dowagiac, MI 49047
269-782-7232

Steve Graffenius, Manager
Reliable Disposal
7227 Reliable Path
Stevensville, MI 49127
1-800-677-1083

1- Industrial Waste

Traci Williams
Health, Safety & Envt'l Specialist
Albemarle
1421 Kalamazoo St.
South Haven, MI 49090
269-637-8474

2 - Environmental Groups

Dave Foerster, President
Two Rivers Coalition
40239 40th Avenue
Paw Paw, MI 49079
269-657-3660

Vacant

1 - County Government

Tom Erdmann, County Commissioner
Van Buren County BOC
219 Paw Paw St. Suite 303
Paw Paw, MI 49079

1 - Township Government

Scott Hess, Township Supervisor
Pine Grove Township
P.O. Box 26
Kendall, MI 49062
269-628-769

1 - City Government

Yemi Akinwale, City Manager
City of Hartford
19 West Main St.
Hartford, MI 49057
269-621-2477

1 - Solid Waste Planning
Marcy Colclough, Planning Specialist
Southwestern Michigan Commission
185 E. Main Street, Suite 701
Benton Harbor, MI 49022
269-925-1137 x25

3 - General Public

Lisa Phillips, Consultant- Owner
Phillips Env. Consulting Services
84757 28th St
Lawton, MI 49065
269-624-4211

Bette Glindmeyer, Retired
Lawrence
48420 50th Ave
Lawrence, MI 49064
269-674-4344

Tad Moody, Accountant
63044 72nd Ave.
Hartford, MI 49057
269-621-2546

APPENDIX E

GLOSSARY OF SOLID WASTE TERMINOLOGY USED

Part 115: of the Solid Waste Management Act - a part of the Natural Resources and Environmental Protection Act, 1994 PA 451 as amended. (NOTE: This replaces Act 641 referenced throughout the current plan.)

Cell: Landfill term for compacted solid waste completely enveloped by cover material.

Commercial Medical Waste Incinerator: An incinerator or waste-to-energy plant proposed to exclusively receive and destroy medical waste from a variety of sources with compensation paid for this service.

Compost Site: A tract of land, building, unit, or appurtenance of a building or unit or a combination of land, buildings, and units that is dedicated for composting yard clippings and/or garbage.

Composting: means the process by which biological decomposition of yard clippings or compostable material is carried out under controlled aerobic conditions and which stabilizes the organic fraction into a material that can easily and safely be stored, handled, and used in an environmentally acceptable manner. The presence of insignificant anaerobic zones within the composting material will not cause the process to be classified as other than composting.

Composting Facility: means a facility where composting of yard clippings or compostable material occurs using composting technology. Composting technology may include physical turning, windrowing, aeration, or other mechanical handling of organic matter.

Contamination: The degradation of soil or water quality as a result of human activities, to the extent that its usefulness is impaired.

Construction and Demolition Waste (C&D waste): waste from building materials, packaging and rubble that result from construction, remodeling, or repair and demolition operations on houses, commercial or industrial buildings and other structures. C&D waste may include tree stumps larger than 4 feet in length and two inches in diameter.

Debris: Any waste from demolition or removal of trees, structures, or fill material (i.e., concrete, lumber, stumps, branches, rocks, vehicles [excluding trees]); also referred to as construction demolition waste or C&D waste.

Designated Planning Agency (DPA): A governmental unit or regional planning agency that is determined under the Natural Resources and Environmental Protection Act, 1994 PA 451, to be responsible for the preparation of a solid waste management plan for the County or Region.

Determination of Consistency: A decision by a body or person designated by the county solid waste management plan that a proposed solid waste management facility site is consistent with the plan and therefore is approved at the county level; DEQ may make this decision independently on behalf the DEQ if the County refuses.

Disposal: the discharge, deposit, injection, dumping, spilling, leaking or placing any solid waste into or on any land or water; placement of solid waste into an open dump, landfill, or waste pile including incinerator, transfer, or processing facilities.

Drop-off Site: A place in the community where people may bring their recyclables (paper, cans, glass, plastic, etc.) and drop them off in separate containers for recycling..

Garbage: Means rejected food and other organic wastes including waste accumulation of animal, fruit, or vegetable matter used or intended for food or that accompanies the preparation, use, cooking, dealing in, or storing of meat, fish, fowl, fruit or vegetable.

Groundwater: The water that fills the cracks and spaces found in soil and some rock formations beneath the earth's surface.

Hazardous Waste: Waste material which may pose a present or potential hazard to human health or the environment when improperly stored, transported, or disposed of, or otherwise mismanaged, including without exception, hazardous waste identified and listed in accordance with PA 451 (i.e., solvents, poisons, petro-chemicals).

Host Community: The community (local unit of government including villages, cities, and townships) where a solid waste management facility is proposed to be located. A nearby community is also a host community if any pertinent isolation distance of the solid waste management plan reaches into the nearby community in question.

Humus: A brown or black material resulting from the partial decomposition of plant and animal matter, thus forming the organic portion of the soil.

Incinerator: A facility where waste materials are burned under controlled conditions for the sole purpose of destroying these materials and reducing the waste to ash. There is no heat (energy) recovery system in place with this type of unit. (See PA 451 Part 115 section R299.4103 Definitions F to L.)

Landfill: In Michigan Landfills are licensed as Hazardous Waste, Type II or Type III.

Landfill - Hazardous Waste: Sometimes referred to as a Type I landfill, a lined landfill that can accept regulated hazardous waste.

Landfill - Type II: A lined landfill that can accept general municipal solid waste (MSW) but not regulated hazardous waste.

Landfill - Type III: A lined landfill that is not a Type II or a hazardous waste landfill designed to accept construction and demolition waste and other materials that have a minimal potential for groundwater contamination.

Leachate: Liquid (usually rain or snowmelt) that passes through waste, and may contain bacteria and other noxious and potentially harmful materials from the waste that have been dissolved by or combined with the liquid.

Materials Recovery Facility (MRF): A resource recovery facility (not including WTE) or incinerator or a facility that receives and processes source separated materials.

Monitoring (Observation) Well: A well used to measure groundwater levels, and in some cases, to obtain water samples for water quality and analysis.

Municipal Solid Waste (MSW): General residential, commercial, and industrial garbage or refuse. MSW is to be distinguished from hazardous waste, type III waste, and household hazardous waste.

Naturally Vegetated Buffer: vegetated buffers that effectively mimic natural systems, slowing down surface runoff, capturing stormwater to improve infiltration, and filtering contaminants. In addition to protecting surface waters, vegetated buffers improve groundwater supplies by promoting recharge and filtering contaminants. Native plants also benefit wildlife by providing food and habitat, and shading rivers and streams, helping to maintain cooler water temperatures.

Open Dump: A land disposal area which does not meet the requirements of Act 641, the Solid Waste Management Act of 1978.

Permeability: A measure of the capacity of a porous medium to transmit fluid.

Protected Lands: Locations which receive protection because of their environmental value, or environmental plus cultural values. Examples include state or national parks, nature reserves, and wildlife sanctuaries.

Recycled: Material that has been recovered and processed for use in place of virgin or raw materials.

Recycling: Converting used, scrap, or waste materials into raw materials or new products.

Resource Recovery Facility: Machinery, equipment, structures, or any parts or accessories of machinery, equipment, or structures, installed or acquired for the primary purpose of recovering

materials or energy from the waste stream.

Reuse: The re-use of materials which have already been used in their regular cycle of production, and can be used again for their material or energy value, including: recycling, composting and waste-to-energy.

Runoff: (Direct or overland runoff) That portion of rainfall or snowmelt which is not absorbed by soil, evaporated or transpired by plants, but finds its way into streams as surface flow. That portion which is absorbed by soil and later discharged to surface streams is groundwater runoff.

Salvage: The separation and removal of solid wastes under controlled conditions for the purposes of reuse, reprocess or resale.

Solid Waste: Includes residential, commercial, and industrial wastes; does not include hazardous wastes. Does not include liquid waste, human body waste (fecal matter), or other waste regulated by statute.

Solid Waste Hauler: A person who owns or operates a solid waste transporting unit.

Solid Waste Management Facility: A general term to refer to a landfill, a solid waste processing plant, a material recovery facility or resource recovery facility, an incinerator, a waste-to-energy plant, a compost site, or a transfer station.

Solid Waste Management Planning Committee: A committee established under part 115 of PA451 to aid in the preparation of a county solid waste management plan.

Solid Waste Processing Plant: A tract of land, building, unit, or appurtenance of a building or unit or a combination of land, buildings, and units that is used or intended for use for the processing of solid waste or separation of material for salvage or disposal, or both, but does not include a plant engaged primarily in the acquisition, processing, and shipment of ferrous or nonferrous metal scrap, or a plant engaged primarily in the acquisition, processing, and shipment of slag or slag products. (See PA 451 Part 115 section R299.4104 Definitions M to R.)

Solid Waste Transporting Unit: A container which may be an integral part of a truck or other piece of equipment used for the transportation of solid waste.

Source Separated Material: Glass, metal, wood, paper products, plastics, rubber, textiles, garbage, or any other material that is separated at the source of generation for the purpose of recycling.

Source Separation: Sorting at the point of generation of specific discarded materials such as newspaper, glass, metal cans, vegetative matter, etc. into specified containers for separate collection.

Solid Waste Transfer Facility: means a tract of land, a building and any appurtenances, or a container, or any combination of land, buildings, or containers that is used or intended for use in the re-handling or storage of solid waste incidental to the transportation of the solid waste, but is not located at the site of generation or the site of disposal of the solid waste.

Waste-to-Energy Facility (WTE): This term refers to a plant where waste materials are burned under controlled conditions and a heat (energy) recovery system is in place, and the recovered heat is put to a useful purpose, i.e. an incinerator with heat recovery.

Yard Clippings: Leaves, grass clippings, vegetable or other garden debris, shrubbery, and brush or tree trimmings that are less than 4 feet in length and 2 inches in diameter. Yard clippings do not include: stumps, agricultural wastes, animal waste, roots, sewage sludge, and garbage.

Van Buren County Resource Recovery

RESOLUTION – MOTION – SOLID WASTE MANAGEMENT PLANNING COMMITTEE

WHEREAS, the Van Buren County Solid Waste Planning Committee is responsible for making changes to the County's Solid Waste Management Plan

NOW, THEREFORE, BE IT RESOLVED, that the Van Buren County Solid Waste Planning committee approves the adoption of the 2009 Amendment to the 2000 Van Buren County Solid Waste Plan and recommends it to the Van Buren County Board of Commissioners for adoption.

Motion by: ***Yemi Akinwale***

Seconded by: ***Steve Graffenius***

Roll call Vote: Yes: Marcy Colclough, Eric Shafer, Tom Erdmann, Steve Graffenius, Dave Foerster, Bette Glindmeyer, Mike Dempski, Mike Matheny, Yemi Akinwale, Lisa Phillips.

No: None

Abstain: None

Resolution Declared: ***Adopted***

Respectfully Submitted: Beth Clawson Date: ***December 14, 2009***

Beth Clawson, Solid Waste Management Planning Committee Secretary

75/12-15-2009

VAN BUREN COUNTY BOARD OF COMMISSIONERS

RESOLUTION ☐ MOTION ☐ REPORT OF **ADMINISTRATIVE AFFAIRS** COMMITTEE

HONORABLE BOARD OF COMMISSIONERS:

WHEREAS, the Solid Waste Planning Committee has approved the Van Buren County Management Plan Amendment, and;

WHEREAS, a public hearing was held as required and a presentation was made to the Van Buren County Committee of the Whole.

NOW, THEREFORE BE IT RESOLVED, that the Van Buren County Board of Commissioners approve the Van Buren County Management Plan Amendment, as submitted.

Signed: Donald A. Hanson
Mike Nott
Richard Freestone
Phil Fox
Samuel Nabee
Susan Harrison
Thomas P. Erdmann

Date: December 15, 2009

FOR CLERK'S USE ONLY

MOTION BY: Hanson

SECONDED BY: FREESTONE

CARRIED ☒

NOT CARRIED ☐

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. John Tapper, Sr., Chairperson
Van Buren County Board of Commissioners
212 Paw Paw
Paw Paw, Michigan 49079

Dear Mr. Tapper:

The Department of Environmental Quality (DEQ) received the locally approved update to the Van Buren County Solid Waste Management Plan (Plan) on July 5, 2000.

The Import Volume Authorization Table authorizes imports from any other Michigan county that authorizes such export. However, this language is indefinable because authorizations may change over time without being known. Therefore, a clarification is needed to define the intent of Van Buren County (County) and the municipalities regarding which counties are authorized to import waste. This clarification makes clear Van Buren County did intend on allowing imports from all other Michigan counties and the phrase "that authorizes such export" is unnecessary because Michigan law requires authorization for the transfer of waste between two Michigan counties to be in both Plans. Ms. Cathy Foune, Van Buren County Resource Recovery Agent, confirmed by telephone that this clarification conveys the County's and municipalities' intent in approving the Plan.

By this letter, this Plan is hereby approved with the above-mentioned clarification. The County now assumes responsibility for the enforcement and implementation of this Plan. The DEQ would like to thank the County for its efforts in addressing County solid waste management issues.

By approving the Plan, the DEQ has determined that it complies with the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 administrative rules concerning the required content of solid waste management plans. Specifically, the DEQ has determined that the Plan identifies the enforceable mechanisms that authorize the state, a county, a municipality, or a person to take legal action to guarantee compliance with the Plan, as required by Part 115. The Plan is enforceable, however, only to the extent the County properly implements these enforceable mechanisms under applicable enabling legislation. The Plan itself does not serve as

such underlying enabling authority, and the DEQ approval of the Plan neither restricts nor expands the County authority to implement these enforceable mechanisms.

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

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

Sincerely,

Arthur R Nash ACTING

Russell J. Harding
Director
517-373-7917

cc: Senator William Van Regenmorter
Representative Mary Ann Middaugh
Ms. Cathy Foune, Van Buren County Resource Recovery Agent
Mr. Arthur R. Nash Jr., Deputy Director, DEQ
Mr. Timothy R. Sowton, Legislative Liaison, DEQ
Mr. Jim Sygo, DEQ
Ms. Joan Peck, DEQ
Mr. Tomas Leep, DEQ - Plainwell
Mr. Seth Phillips, DEQ
Ms. Lynn Dumroese, DEQ
Van Buren County File

Van Buren County Solid Waste Management Plan Update

June 2000

MICHIGAN STATE
UNIVERSITY
EXTENSION

JUN 29 2000
Waste Manageme

June 28, 2000

Mr. Matt Staron
Solid Waste Management Unit
Waste Management Division
Department of Environmental Quality
PO Box 30241
Lansing, MI 48909

Dear Mr. Staron:

Enclosed please find the Van Buren County Solid Waste Management Plan Update. The plan has been approved by the planning committee, Board of Commissioners and 2/3 of the local units of government.

If you have any questions please contact me at (616) 657-7745.

Thank you.

Sincerely,

Cathy Foune

Cathy Foune
Resource Recovery Agent

Van Buren County
MSU Extension

801 Hazen St., Suite A
Paw Paw, MI
49079-1077

616-657-7745
FAX: 616-657-6678

e-mail
vanburen@msue.msu.edu

website
www.msue.msu.edu/vanburen

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MICHIGAN STATE
UNIVERSITY
EXTENSION

June 29, 2000

TO: Solid Waste Planning Committee

FROM: Cathy Foune, Resource Recovery Agent CF

SUBJECT: Plan Update

The Plan has received the needed 2/3 support from local units of government. It has now been submitted to the DEQ for final approval.

Thank you for your hard work and dedication. Although all of your terms have expired, I hope you will continue supporting resource recovery issues.

I would like to form an advisory committee to help ensure that the goals and objectives outlined in the Plan are met. My plan is to have quarterly meetings. If you are interested in serving on this committee, please let me know as soon as possible.

Once again, thank you for all your hard work.

CF/jc

Van Buren County
MSU Extension

801 Hazen St., Suite A
Paw Paw, MI
49079-1077

616-657-7745
FAX: 616-657-6678

e-mail
vanburen@msue.msu.edu

website
www.msue.msu.edu/vanburen

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Michigan State University, U.S. Department of Agriculture and counties cooperating. MSU is an affirmative-action equal opportunity institution.

J:\RESOURCE\SWP98\thkyoultr.doc

1999 PLAN UPDATE COVER PAGE

The Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NPEPA), 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.

Not applicable

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
Not applicable		

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

Van Buren County MSU Extension

CONTACT PERSON: Cathy Foune
ADDRESS: Van Buren County MSU Extension
801 Hazen St., Suite A
Paw Paw, MI 49079
PHONE: (616) 657-7745 FAX: (616)657-6678
E-MAIL: founec@msue.msu.edu

CENTRAL REPOSITORY LOCATION (S): Van Buren County MSU Extension

TABLE OF CONTENTS **

EXECUTIVE SUMMARY
Overall View of the County I-1
Conclusions I-2
Selected Alternatives I-2-3
Introduction I-4
Goals & Objectives I-4-6

DATABASE
Solid Waste Disposal Areas II-2
Solid Waste Facility Descriptions II-3-10
Transportation Infrastructure II-11-13
Evaluation of Deficiencies and Problems II-14-15
Demographics II-15-18
Land Development II-19
Solid Waste Management Alternatives II-20-22

SELECTED SOLID WASTE MANAGEMENT SYSTEM
Import/Export Authorizations III-3-6
Solid Waste Disposal Areas III-7
Facility Descriptions III-8-15
Transportation Infrastructure III-16
Resource Conservation Efforts III-17
Waste Reduction, Recycling, & Composting Programs III-18-26
Educational and Informational Programs III-27
Timetable III-28
Siting Procedure III-28
Management Component III-29-30
Local Ordinances and Regulations III-31

CAPACITY CERTIFICATION PROCESS IV-1

APPENDIX A – Additional Information Regarding the Selected System
Possible Implementation Strategy A-1-3
Evaluation of Recycling A-4
Detailed Features of Recycling & Composting A-4-5
Coordination Efforts A-6
Cost & Funding A-6
Evaluation Summary A-7
Advantages & Disadvantages A-7

APPENDIX B - Non-Selected Systems
Non-Selected Systems B-1-4

APPENDIX C - Public Participation
Public Participation & Approval C-1
Solid Waste Management Committee Members C-2
Proposed Schedule C-3

APPENDIX D - Attachments

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 would take precedence over the executive summary.

OVERALL VIEW OF THE COUNTY

Township or Municipality Name	Population[1] (1996 est.)	% Economic Base[2]				
		Ag	For	Ind	Com	Oth
Almena Twp	4465	9	0	0	2	88
Antwerp Twp	10378	4	0	4	12	80
Arlington Twp	2056	27	0	0	3	70
Bangor Twp	2136	36	0	0	3	60
Bloomingdale Twp	3110	18	0	1	4	78
Columbia Twp	2786	11	0	1	1	87
Covert Twp	2947	2	0	66	1	31
Decatur Twp	3831	26	0	4	9	61
Geneva Twp	3511	22	0	0	6	71
Hamilton Twp	1595	40	0	1	3	56
Hartford Twp	3119	27	0	8	5	60
Keeler Twp	2515	17	0	1	3	79
Lawrence Twp	3264	19	0	3	4	74
Paw Paw Twp	7178	5	0	4	14	77
Pine Grove Twp	2863	17	0	1	4	78
Porter Twp	2350	15	0	1	0	84
South Haven Twp	4424	7	0	1	12	79
Waverly Twp	2249	16	0	0	2	82
Bangor City	1933	0	0	11	20	69
Gobles City	812	0	0	0	23	77
Hartford City	2357	0	0	3	19	78
South Haven City	5429	0	0	3	9	88
Total Population	**75308**					

[1] Source: 1998 EXTRACT A Concentrate of Information About Southwest Michigan
[2] Source: 1998 Equalized Valuations- REAL
*Ag = Agriculture; For = Forestry; Ind = Industry; Com = Commercial; Oth = All Other Economical Bases, including residential

CONCLUSIONS

Van Buren County has no landfills and will continue to export solid waste to satisfy disposal needs. Regional landfill capacity is more than adequate for the ten year planning period.

During this five-year planning period, Van Buren County will pursue expansion of current community waste reduction, recycling, composting, collection and educational programs. Availability of adequate financial resources will be a key element in achieving these goals. Improving data collection and analysis is also a goal of the plan. Accurate data will provide better tools for preparation of future plans and identification of waste management issues that need to be addressed.

SELECTED ALTERNATIVE

Waste Reduction/Pollution Prevention & Resource Conservation

- Municipalities will be encouraged to adopt a waste reduction/purchasing policy requiring the purchase of products made from recycled materials.
- Communities and groups that bid waste contracts will be encouraged to include requirements that the contractor will recycle paper, metals (Al and Fe) and plastic (HDPE 2).
- Increase participation in waste reduction, recycling and composting programs will be attempted by enabling at least 12 commercial or industrial waste audits during each year of the plan.
- Access to the current household hazardous waste collection program in Van Buren County will be expanded and improved to maximize participation.
- Attempts will be made to obtain commitments from all public and private schools in Van Buren County to schedule a minimum of 2 hours per year for presentation of waste reduction, reuse, recycling, composting and natural resources conservation and protection.
- Resource recovery classroom materials suitable for use in all elementary and secondary grade levels will be obtained.
- Informational meetings on resource recovery will be conducted at least monthly for youth organizations and governmental units in Van Buren County.
- Resource recovery speaker's bureau and materials for presentations to civic organizations will be developed.
- A solid waste/resource recovery symposium for elected officials will be conducted once every election cycle
- Continuous upgrades regarding the availability of information and improvement of access to and dissemination of, resource recovery materials to all county residents will be done.
- A strategy for instituting volume based residential waste disposal charges throughout the county will be developed.

Resource Recovery: Recycling & Composting Programs

- A resource library regarding backyard and large scale composting systems will be maintained.

- A baseline of recycling recovery rates in 1999, as well as can be done, will be established and strives made to increases the recycling recovery rates each year.
- A directory of all residential and business recycling opportunities will be maintained.
- The Master Composter Education program will be expanded into adult, alternative or other formal education programs in the county.
- A strategy will be developed to improve access and funding for a tire collection program.

Collection, Process and Transportation

- Local agreements and ordinances will be maintained that specify collection services to be provided by private sector.
- Development or siting of materials recovery facilities and processing facilities in the county and region will be promoted.
- Private sector operation will be maintained to manage collection processes and transportation components.

Sanitary Landfill

- The current system of transfer station contracts between townships and private industry will be maintained.

Institutional Arrangements

- Grant monies, in-kind support and private sponsorships will be obtained to help fund resource recovery programs.
- The County, in cooperation with Michigan State University Extension, will provide a full time, salaried staff position solely dedicated to implementation of the Solid Waste Management Plan. Adequate funding will be provided to ensure that a highly qualified staff person can be attracted, trained and retained.
- A budget line item will be added, to provide additional staff and resources, if necessary, to fully implement the plan.
- The County will maintain an active membership in the Southwest Michigan Solid Waste Consortium to ensure the Van Buren county interests are represented within the framework of regional programs.
- A solid waste management committee will be maintained to provide oversight and recommendations to assist in the implementation of the Plan.
- Information from each waste hauler will be obtained, as practical, about volume information on solid waste and recyclables generated within the township or city. It will be requested that recyclable volume information be separated by type of material where practical.
- A budget line item will be added so that the Resource Recovery staff can stay abreast of trends and alternatives, current and proposed laws and regulations to solid waste management, recycling, and composting by attending a minimum of one national conference every two years.

INTRODUCTION

GOALS AND OBJECTIVES

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

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

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

GOAL 1: Educate the Citizens of Van Buren County in all aspects of resource recovery, including waste reduction, reuse and recycling techniques, composting and solid waste disposal, for the conservation and protection of its natural resources.

Objective 1a: Develop or obtain resource recovery classroom materials suitable for use in all elementary and secondary grade levels.

Objective 1b: Obtain commitments from all public and private schools in Van Buren County to schedule a minimum of 2 hours per year for presentation of the above materials at each grade level.

Objective 1c: Conduct informational meetings at least monthly for youth groups (4-H, Girl and Boy scouts, etc) and governmental units in Van Buren County on solid waste management/resource recovery issues.

Objective 1d: Develop a speaker's bureau and materials for presentation on solid waste management/resource recovery issues for civic organizations within Van Buren County.

Objective 1e: Obtain grant monies, in-kind support and private sponsorships to fund solid waste management/resource recovery education.

Objective 1f: Conduct a solid waste/resource recovery symposium for Van Buren County elected officials once every county election cycle.

Objective 1g: Continuously upgrade the availability of information and improve access to and dissemination of solid waste management/resource recovery information to all residents of Van Buren County.

Goal 2: Assist Businesses, Citizens, and Residents of Van Buren County in reducing waste going to landfills to only "unusable residues."

Objective 2a: Establish a baseline of recycling recovery rates in 1999 and increase the recycling recovery rates in Van Buren County 5% each year until 30% of the total waste stream is recovered.

Objective 2b: Maintain a directory of all residential and business recycling opportunities.

Objective 2c: Expand and improve access to the current household hazardous waste collection program in Van Buren County to maximize participation.

Objective 2d: Obtain commitment from each Van Buren township & city to sponsor a biennial scrap tire collection program.

Objective 2e: Obtain grant monies, in-kind support and private sponsorships to fund scrap tire collection programs, recycling, household hazardous waste collection and composting programs.

Objective 2f: Expand the Master Composter Education Program into adult, alternative or other formal education programs in Van Buren County.

Objective 2g: Increase participation in waste reduction, recycling and composting programs by performing at least 12 waste audits during each year of the plan.

Objective 2h: Encourage municipalities to adopt a waste reduction/purchasing policy requiring the purchase of products made from recycled materials.

Goal 3: Actively implement the solid waste management plan in Van Buren County

Objective 3a: Provide a full-time salaried staff positions solely dedicated to implementation of the solid waste plan.

Objective 3b: Provide additional staff and resources as necessary to fully implement the plan.

Objective 3c: Provide adequate funding to attract, train and retain highly qualified staff.

Objective 3d: Provide an annual report to the county commissioners regarding progress towards plan implementation and value to county residents.

Objective 3e: Develop a strategy for instituting volume based residential waste disposal charges throughout the county.

Objective 3f: Maintain active membership in the Southwest Michigan Solid Waste Consortium to ensure that Van Buren county interests are represented within the framework of regional programs.

Objective 3g: Obtain agreements from waste haulers to provide volume information on solid waste and recyclables generated within the county. Recyclables volume information should separated by type of material where practical.

Objective 3h: Van Buren County Solid Waste Program Officials and County Governmental Officials should assist any resident, non profit organization, or commercial business located within the County in obtaining grant monies, and permits necessary to implement resource recovery programs, including those innovative and emergent technologies.

Objective 3i: Enact a County Ordinance to provide for a silent witness program to be funded, at least in part, by fines for dumping violations.

Objective 3j: Resource Recovery Staff will stay abreast of trends and alternatives; current and proposed laws and regulations pertaining to solid waste management, recycling, and composting; and function as a liaison and resource to local governmental officials regarding resource recovery issues effecting the county.

Objective 3k: Maintain a Solid Waste Management Planning Committee to provide oversight and recommendations to assist in implementation of this Plan.

DATABASE

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)

Table 1 estimates the annual amount of landfill waste which is generated in Van Buren County. This estimate is based on the Solid Waste Landfill Receipt Report (10/1/97-9/30/98) complied by the Michigan Department of Environmental Quality, and the US Environmental Protection Agency's Characterization of Municipal Solid Waste in the United States 1994 Update. These sources alone did not seem to provide an accurate, comprehensive description of the waste stream, so additional information was solicited from area waste haulers.

According to the Characterization of Municipal Solid Waste in the United States: 1996 Update by the EPA, "the per capita generation rate was 4.3 pounds per person per day in 1996, ...). Residential generation was estimated to be 55% of the total municipal solid waste (MSW) generated. Commercial and industrial generation was estimated to be 45% of the total municipal solid waste generated.

A database distributed in January 1995 by Oakland County's Solid Waste Planning Department estimates that construction and demolition debris (C&D) is generated at the rate of 0.7 pounds per capita per day. In absence of local data, that figure was used to calculate the total volume for disposal.

Table 1
Estimated Solid Waste Generation (tons per day (TPD))

	1996	2000	2010
Population	75308	78675	87110
Residential Generation (55% of MSW)	89 TPD	93 TPD	103 TPD
Commercial Generation (45% of MSW)	73 TPD	76 TPD	84 TPD
Construction & Demolition Generation	26 TPD	28 TPD	30 TPD
Total Generated	188 TPD	197 TPD	217 TPD
Total Landfilled	182 TPD	191 TPD*	210 TPD*

* Based on the 1998 landfill report, a conservative estimate of 3% recycling was used to determine the total amount landfilled for 2000 and 2010.

Example Calculation:
Residential Waste
Generation 1996: 75308 pop. x $\frac{4.3 \text{ lbs}}{\text{day}}$ x $\frac{1 \text{ ton}}{2000 \text{ lbs.}}$ x 0.55 = 89 Tons per Day

TOTAL QUANTITY OF SOLID WASTE GENERATED:
188 TONS PER DAY

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL:
182 TONS PER DAY

SOLID WASTE DISPOSAL AREAS

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

Van Buren County has nine Type B transfer stations. These are all rural facilities open between twenty-eight and one hundred and twenty days per year. Detailed information about each of these sites is located on its facility description form (pages II-3 through II-10). Van Buren County has one Type A transfer station. The host municipality provided the Type B transfer station facility descriptions; all landfill facility descriptions were provided by the landfill facility.

Van Buren has no landfills and authorizes export of up to 100% of its solid waste to any county in Michigan that includes such waste transfer in its plan. The following table lists the landfills that currently accept waste or would be willing to accept waste in the future from Van Buren County.

Table 2
Van Buren County Solid Waste Disposal Areas

Facility	County
Arbor Hills Landfill	Washtenaw
Autumn Hills Recycling & Disposal Facility	Ottawa
C & C Landfill	Calhoun
Forest Hills	Berrien
Hastings Sanitary	Barry
Orchard Hills	Berrien
Pitsch Sanitary Landfill	Ionia
Southeast Berrien County Landfill	Berrien
South Kent County Landfill	Kent
Westside Recycling and Disposal Facility	St. Joseph
Woodland Meadows Recycling and Disposal Facility	Wayne

TYPE II LANDFILLS

Arbor Hills Landfill

Location: Washtenaw County, Salem Township
Owner: BFI Waste Systems of North America
Operating status: open and licensed
Wastes received: residential, commercial, industrial, construction & demolition contaminated soils and special wastes (non-hazardous solid and semi-solid wastes, no hazardous or liquid wastes)
Total area of facility property: 936 acres
Total area sited for use: 356 acres
Total area permitted: 217 acres
Area in operation: 113 acres
Area not excavated: 104 acres
Current capacity: 30,500,000 yds^3 airspace or 61.5 million yds^3 of capacity
Estimated Lifetime: 17.6 years
Estimated days open per year: 265 days
Estimated yearly disposal volume: 3,500,000 yds^3
Annual landfill gas recovery: 18 megawatts

Autumn Hills Recycling & Disposal Facility

Location: Ottawa County, T5N R14W section 36
Owner: Autumn Hills RFD- A division of Waste Management of Michigan, Inc.
Operating status: open, licensed and construction permit
Wastes received: residential, commercial, industrial, construction & demolition contaminated soils and special wastes (exhausted oak wood trays, minor first aid waste, contaminated pharmaceuticals manufacture, paint booth fibers, dewatered waste water treatment sludge, out of spec/out of date food supplements, spent epoxy powder coatings, sand blasting sand, wood chips/dust from production, shot blast, foundry sand, filter press cake, incinerator ash, saw dust, auto fluff, asbestos, grinding sludge, carwash sand pit/traps, and food materials)
Total area of facility property: 314 acres
Total area sited for use: 197 acres
Total area permitted: 99.3 acres
Area in operation: 35.1 acres
Area not excavated: 64.2 acres
Current capacity: 20.75 million tons
Estimated Lifetime: 30.2 years
Estimated days open per year: 286 days
Estimated yearly disposal volume: 500, 000 tons
Annual landfill gas recovery: n.a.

C&C Landfill

Location: Calhoun County, Convis Township
Owner: BFI Waste Systems of North America, Inc.
Operating status: open and licensed
Wastes received: : residential, commercial, industrial, construction & demolition contaminated soils and special wastes (non-hazardous solid and semi-solid wastes, no hazardous or liquid wastes)
Total area of facility property: 224 acres
Total area sited for use:
Total area permitted: 154 acres
Area in operation: 33 acres
Area not excavated: 21 acres
Current capacity: 3,360,000 yds^3
Estimated Lifetime: 7 years
Estimated days open per year: 286 days
Estimated yearly disposal volume: 1,100,000 yds^3
Annual landfill gas recovery: n.a.

Forest Lawn Landfill

Location: Berrien County
Owner: Forest Lawn Landfill, Inc.
Operating status: open and licensed
Wastes received: residential, commercial, industrial, construction & demolition, special wastes (non-hazardous commercial and industrial wastes that have been approved for disposal) and other (fly ash, foundry sand, trees & stumps, wastewater sludge and asbestos)
Total area of facility property: 284 acres
Total area sited for use: 135 acres
Total area permitted: 135 acres
Area in operation: 26 acres
Area not excavated: 78 acres
Current capacity: 5 million yds^3
Estimated Lifetime: 7 years
Estimated days open per year: 286 days
Estimated yearly disposal volume: 1,500,000 yds^3
Annual landfill gas recovery: n.a.

Hastings Sanitary Service
City Environmental Services Landfill, Inc. of Hastings (CESLH)

Location: Barry County; T3W R8N Section 6
Owner: City Management Corp.
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils, special waste (foundry sand, fly ash, waste water sludge, tress and stumps) and other (type III wastes)
Total area of facility property: 330 acres
Total area sited for use: 330 acres
Total area permitted: 48 acres
Area in operation: 19.5 acres
Area not excavated: 28.5 acres

Current capacity: 500,000 yds^3
Estimated Lifetime: 23 years
Estimated days open per year: 308 days
Estimated yearly disposal volume: 175,00 tons
Annual landfill gas recovery: n.a.

Orchard Hill Landfill

Location: Berrien County; T2S R17W Sections 28 & 33
Owner: Landfill Management Co.
Operating status: open and licensed
Wastes received: residential, commercial, industrial, construction & demolition and other (fly ash, foundry sand, trees and stumps, wastewater sludge and asbestos)
Total area of facility property: 160 acres
Total area sited for use: 117 acres
Total area permitted: 117 acres
Area in operation: 53 acres
Area not excavated: 64 acres
Current capacity: 6.3 million yds^3
Estimated Lifetime: 19.5 years
Estimated days open per year: 285 days
Estimated yearly disposal volume: 500,000 yds^3
Annual landfill gas recovery: n.a.

Pitsch Sanitary Landfill

Location: Ionia County
Owner: Pitsch companies
Operating status: open and licensed
Wastes received: residential, commercial, construction & demolition, contaminated soils and special wastes (street sweepings and asbestos)
Total area of facility property: 143.5 acres
Total area sited for use: 28.36 acres
Total area permitted: 28.36 acres
Area in operation: 9.87 acres
Area not excavated: 70 acres
Current capacity: 415,000 yds^3
Estimated Lifetime: 5 years
Estimated days open per year: 307 days
Estimated yearly disposal volume: 83,000 yds^3
Annual landfill gas recovery: n.a.

South Kent County Landfill

Location: Kent County
Owner: Kent County (public)
Operating status: open, licensed and construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils and special wastes (foundry sands, street sweepings, sludge)
Total area of facility property: 250 acres
Total area sited for use: 112 acres
Total area permitted: 112 acres

Area in operation: 31 acres
Area not excavated: 81 acres
Current capacity: 7.6 million tons
Estimated Lifetime: 38 years
Estimated days open per year: 310 days
Estimated yearly disposal volume: 155,000 yds^3
Annual landfill gas recovery: n.a.

Southeast Berrien County Landfill

Location: Berrien County; T8S R17W Section 6
Owner: SE Berrien County Landfill Authority
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils, special wastes (non-hazardous commercial and industrial wastes that have been approved for disposal)and other (asbestos)
Total area of facility property: 160 acres
Total area sited for use: 100 acres
Total area permitted: 50 acres
Area in operation: 42 acres
Area not excavated: 8 acres
Current capacity: 4.2 million yds^3
Estimated Lifetime: 10 years
Estimated days open per year: 275 days
Estimated yearly disposal volume: 650,00 yds^3
Annual landfill gas recovery: n.a.

Westside Recycling & Disposal Facility

Location: St. Joseph County; T6S R2W Section 26
Owner: Waste management of Michigan, Inc.
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils, and special wastes (non-hazardous, non-liquid industrial wastes such as foundry sand, asbestos and ash)
Total area of facility property: 640 acres
Total area sited for use: 490 acres
Total area permitted: 85 acres
Area in operation: 51 acres
Area not excavated: 34 acres
Current capacity: 14,790,000 yds^3
Estimated Lifetime: 12 years
Estimated days open per year: 300
Estimated yearly disposal volume: 1.2 million yds^3
Annual landfill gas recovery: n.a.

Woodland Meadows Recycling & Disposal Facility-Van Buren

Location: Wayne County; T3S R8E Section 1
Owner: Waste Management of Michigan, Inc.
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminates soils and special waste (sludge-provided at least 30% solids)
Total area of facility property: 214 acres
Total area sited for use: 214 acre II-6
Total area permitted: 148 acres
Area in operation: 70 acres
Area not excavated: 78 acres
Current capacity: 26,520,800 yds^3
Estimated Lifetime: 19.8 years
Estimated days open per year: 305
Estimated yearly disposal volume: 1,304,200 yds^3
Annual landfill gas recovery: 400,000 megawatts

Type A Transfer Stations

Quality Refuse TS

Location: Van Buren County
Final disposal site: Forest Lawn Landfill
Owner: reliable Disposal Inc. (private)
Operating status: open & licensed
Waste types received: residential, commercial, industrial, and special wastes (some contaminates soils)
Total area of facility property: 3.3 acres
Total area sited for use: 3.3
Estimated days open per year: not available
Estimated yearly disposal volume: not available

TYPE B TRANSFER STATIONS

Antwerp Township Transfer Station

Location: Van Buren County
Final disposal site: Orchard Hills
Owner: Antwerp Township (public)
Operating status: open & unlicensed
Waste types received: residential and construction & demolition
Total area of facility property: 10.3
Total area sited for use: 1 acre
Estimated days open per year: 104
Estimated yearly disposal volume: 1680 yds^3

City of Bangor - Recycling Center

Location: Van Buren County
Final disposal site: Orchard Hills
Owner: City of Bangor (public)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 12 acres
Total area sited for use: 100 x 100 feet
Estimated days open per year: 104
Estimated yearly disposal volume: 3500 yds^3

Bangor Township Transfer and Recycling Station

Location: Van Buren County;
Final disposal site: Forest Lawn
Owner: Reliable Disposal Inc. (private)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 0.9
Total area sited for use: 0.9
Estimated days open per year: 52
Estimated yearly disposal volume: 1040 yds^3

Bloomingdale Township Transfer Station

Location: Van Buren County
Final disposal site: Orchard Hills
Owner: Bloomingdale Township (public)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 5 acres
Total area sited for use: 1 acre
Estimated days open per year: 90
Estimated yearly disposal volume: 1000 yds^3

Columbia Township Transfer Station

Location: Van Buren County; T1S R15W Section 28
Final disposal site: Orchard Hills
Owner: Best Way Disposal (private)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 2.1 acres
Total area sited for use: 2.1
Estimated days open per year: 104
Estimated yearly disposal volume: 1100 yds^3

Covert Township Transfer Station

Location: Van Buren County, T2 R17 Section 16
Final disposal site: Orchard Hills
Owner: Covert Township (public)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 20 acres
Total area sited for use: 3 acre
Estimated days open per year: 100
Estimated yearly disposal volume: 667 tons

Paw Paw Township Transfer Station

Location: Van Buren County
Final disposal site: Orchard Hills
Owner: Best Way (private)
Operating status: open & unlicensed
Waste types received: commercial and residential
Total area of facility property: approximately 14 acres
Total area sited for use: approximately 1 acre
Estimated days open per year: 120
Estimated yearly disposal volume: not available

Pine Grove Township Transfer Station

Location: Van Buren County; T1 R13
Final disposal site: Orchard Hills
Owner: Best Way (private)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 1 acre
Total area sited for use: 1 acre
Total area permitted: 1 acre
Estimated days open per year: 100
Estimated yearly disposal volume: 1764 yds^3

Pine Grove Township Transfer Station

Location: Van Buren County; T1 R13
Final disposal site: Orchard Hills
Owner: Best Way (private)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 1 acre
Total area sited for use: 1 acre
Total area permitted: 1 acre
Estimated days open per year: 100
Estimated yearly disposal volume: 1764 yds^3

South Haven-Geneva Joint Transfer Station

Location: Van Buren County
Final disposal site: Forest Lawn
Owner: South Haven and Geneva Townships (public)
Operating Status: open & unlicensed
Waste types received: residential
Total area of facility property: 9.8
Total area sited for use: 1 acre
Estimated days open per year: 52
Estimated yearly disposal volume: not available

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.

Private companies provide all solid waste collection services operating in Van Buren County. All solid waste disposal services are provided on a subscription basis, whereby, each individual customer arranges for service and is billed accordingly. Commercial accounts typically pay by the cubic yard. Residential service is limited on volume related services. The nine transfer station described on pages II-8 through II-10 and special bulk trash collections are made available by local municipalities who contract with the private sector to provide collections and disposal service. All parts of the County are served by one or more of the private waste firms listed in Table 3, ensuring that all residents have access to garbage collection.

In an attempt to improve solid waste service and increase recycling rates, The Village of Paw Paw enacted a "Waste Reduction Ordinance" in 1996 that requires all waste haulers wanting to service residential customers within the village to register and provide a basic level of service to their customers. The services include a volume based pricing structure which must include a pay per bag service option, curbside recycling with a required list of collectibles and a yard waste disposal service option. As an incentive to the waste haulers, they are allowed to charge for all of the services and can charge for recycling even if the customer does not use the service. A 1997 survey of Village residents showed that 43% of residents were using the recycling service.

The private waste hauling companies provides residential recycling services in Van Buren County. Recycling drop-off centers exist at eight of the county transfer stations. Some waste haulers will collect a limited amount of source separated materials in the higher population areas if requested by the resident. Curbside recycling is available free to the residents of South Haven through an agreement between the city and Reliable Disposal. This agreement has been in existence since 1990. Curbside service is available on a subscription basis to the residents of the Village of Paw Paw as described above. Non-profit groups and service clubs in the county take advantage of local used paper markets and provide drop-off programs for the public to collect primarily newspaper and paperboard. MTI Industries and Services provides mixed paper recycling services to most county offices.

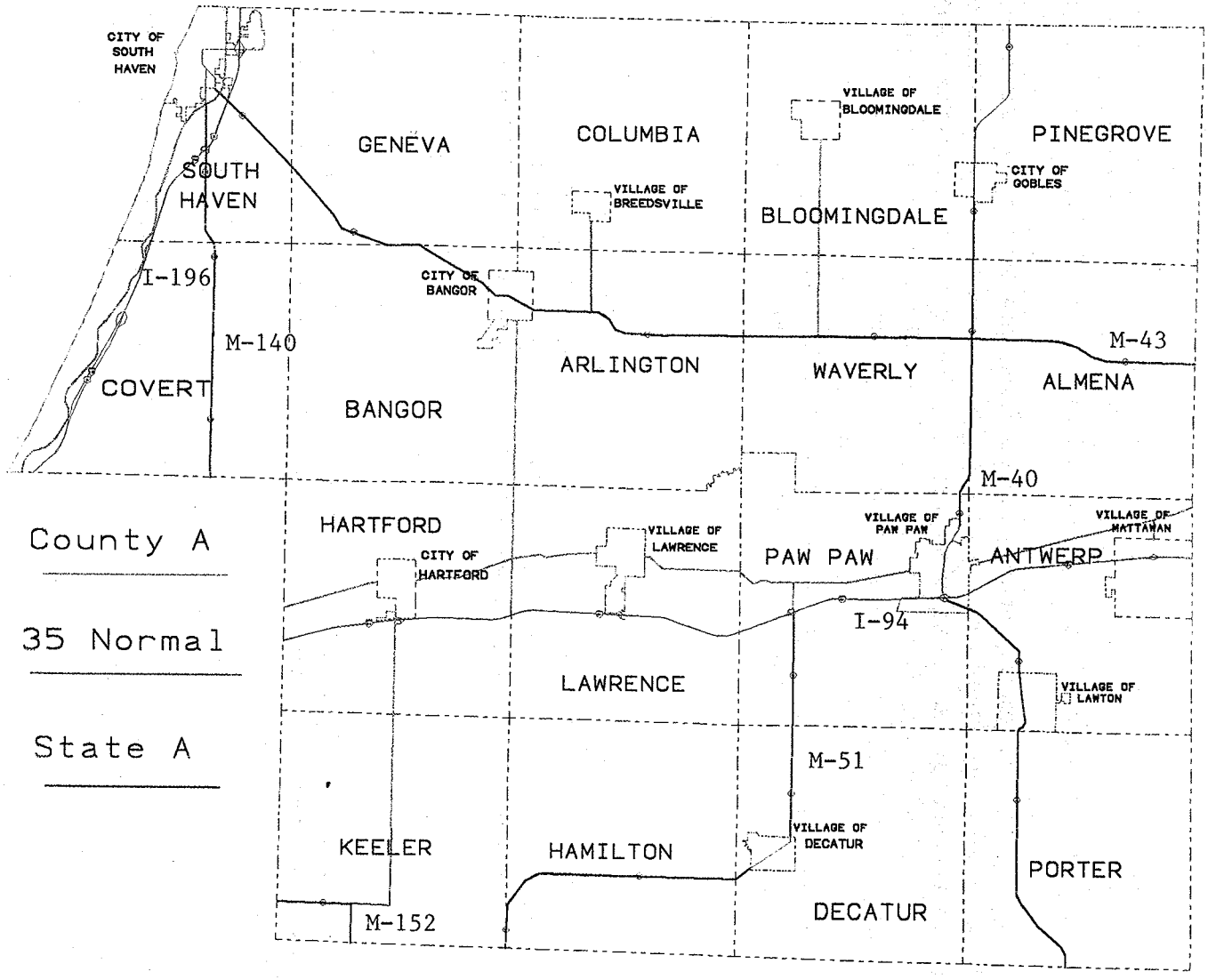
Business and industries can contract for their own recycling, with most haulers providing some level of service. Corrugated cardboard recycling is widely available and some companies also pick up mixed paper.

Table 3
Disposal Companies

Service Provider
Best Way Disposal
Tri-City Recycling & Disposal (Allied)
Reliable Disposal
Magic Disposal
Waste Management

Van Buren County's transportation infrastructure is adequate for the needs of the area waste disposal firms that rely on trucking to get the waste to landfills outside the county. The map of the following page depicts the main roadways that are used to haul waste to disposal areas.

Van Buren County Class A Roads



County A

35 Normal

State A

Scale = 1:241994

EVALUATION OF DEFICIENCIES AND PROBLEMS

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

Service

There is a lack of consistent container sizes and availability among waste haulers. Also, many times even if a hauler has a variable sized system, it is not well advertised, so few people take advantage of the service.

Recycling

Most residents in Van Buren County do not have the option of curbside recycling service. Many will not travel even a short distance to use a drop-off facility. This leads to a lower resource recovery rate for the county.

Disposal Costs

The abundant supply of landfill capacity in this area has led to some of the lowest disposal costs in the nation. One indirect result of inexpensive disposal is the lack of incentive to recycle or otherwise reduce wastes. Low, flat rate fees for residential subscription service encourages people to simply discard materials, even when recycling is available.

Improper Disposal

The combination of subscription-based residential garbage service and the lack of requirements of enforcement for households to have garbage service allows many households to elect not to have garbage service. Due to the rural nature of the county, illegal dumping is an ongoing problem and violators are rarely apprehended. Some residents handle their refuse by creating trash piles or dumps on their property. Also, since back yard burning of household trash is not prohibited in most municipalities, it is a common alternative in many areas. All of these non-subscription alternatives present serious ramifications for aesthetics, public health and public safety.

Households can legally discard small quantities of certain items such as batteries, solvents and pesticides which are legally regulated wastes in larger quantities. Over time, these small quantities will add up to large quantities in the landfills. It is difficult to convince people of the benefit of a household hazardous waste program because of the high cost associated with proper disposal of these substances.

Public Awareness

Lack of intergovernmental cooperation and a small education budget make large-scale resource recovery programming and educational efforts difficult. Individual townships currently fund most programs; therefore, not all residents have the opportunity to participate in programs (i.e. household hazardous waste collections).

There is also a large portion of the general public that is apathetic to the recycling and conservation messages. Many people are accustomed to thinking only in the short term with a narrow focus on the bottom line. These are the most challenging and important people that need to be reached.

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.

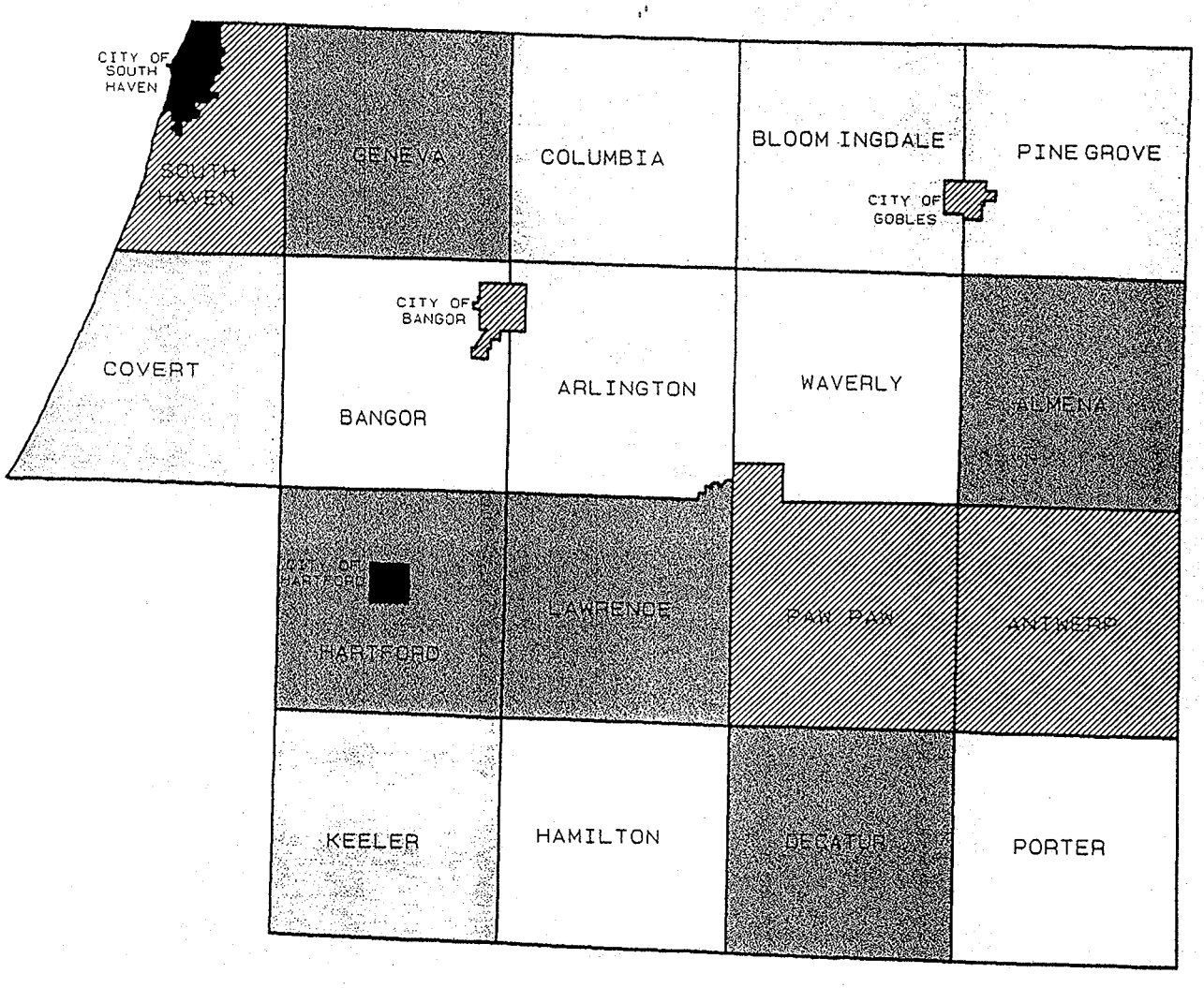
Table 4 provides the 1990 census data and population forecasts for the years 2000 and 2010. The projected rate of change between 2000 and 2010 is shown for each unit, indicating the areas which are expected to experience the most growth.

The County's population as a whole is expected to increase at a growth rate of 9.5% from 1990 to 2000 and 9.8% from 2000 to 2010.

Centers of waste generation tend to correspond with the areas of high population density. Greater numbers of people produce higher volumes of residential waste, but commercial and industrial facilities also tend to cluster near larger communities. Current and projected volumes of residential, commercial, industrial and construction waste are presented in Table 1 on page II-1. See Map B for the 1990 population density and Map C for t he 2010 projected population density for Van Buren County.

TABLE 4
Van Buren County Projected Population Growth

Townships	1990 Census	2000 Projection	2010 Projection	Percent Change (2000-2010)
Almena	3581	4222	4863	13.2
Antwerp	5152	6003	6854	12.4
Arlington	1929	2150	2371	9.3
Bangor	1948	2130	2312	7.9
Bloomingdale	2351	2584	2882	10.3
Columbia	2339	2625	2911	9.8
Covert	2855	3135	3415	8.2
Decatur	1856	2047	2238	8.5
Geneva	3162	3579	3996	10.4
Hamilton	1515	1704	2734	37.7
Hartford	3032	3203	3374	5.1
Keeler	2344	2566	2798	8.3
Lawrence	2115	2364	2613	9.5
Paw Paw	3532	4065	4598	11.6
Pine Grove	2594	2922	3250	10.1
Porter	2086	2396	2706	11.5
South Haven	4185	4760	5335	10.8
Waverly	2188	2506	2824	11.3
Villages				
Bloomingdale	503	594	620	4.2
Breedsville	213	207	201	-2.9
Decatur	1760	1856	1952	4.9
Lawrence	915	974	1033	5.7
Paw Paw	3169	3366	3563	5.5
Cities				
Bangor	1922	2150	2378	9.6
Gobles	769	805	841	4.3
Hartford	2341	2466	2591	4.8
South Haven	5563	5546	5526	-0.4
County Total	70060	77422	85845	9.8



POPULATION/SQ. MI.

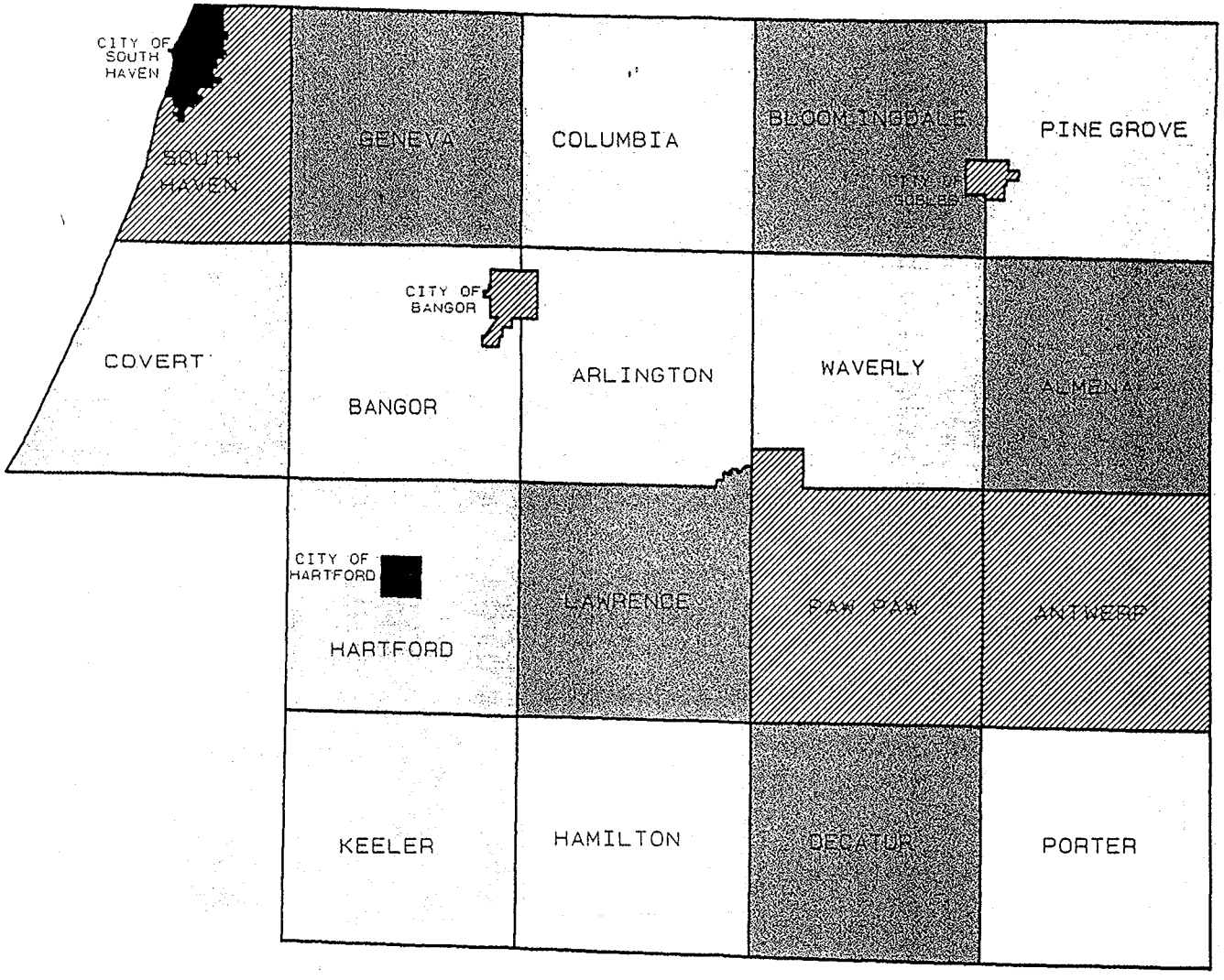
1990 CENSUS DATA

Legend

	0.00 - 64.00
	64.01 - 82.00
	82.01 - 103.00
	103.01 - 1050.00
	1050.01 - 2339.00

VAN BUREN COUNTY
TIGER DATA/ 1990

MSUE/ BY MCD



POPULATION / SQUARE MILE

2010 PROJECTED POP.

Legend

	0.00 - 80.00
	80.01 - 99.00
	99.01 - 140.00
	140.01 - 1300.00
	1300.01 - 2600.00

VAN BUREN COUNTY
TIGER DATA/MCD

MSUE

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 primary factor driving growth in Van Buren County is its convenient location near three metropolitan areas, Kalamazoo, Benton Harbor/St. Joseph, and Holland. I-94, US-31, I-196 and M-43 allow accessibility to these metropolitan areas.

The rural population in the County is changing to predominately non-farm. Population growth will most likely occur in rural townships with more houses holding relatively fewer people. The age of the population will be skewed to a higher age group.

With the creation of an Economic Development Agent for the County, the County should experience business and industry growth. Growth is expected to occur in the industrial parks which are located in Bangor, Lawrence, South Haven and Paw Paw/Lawton. There are two additional industrial parks proposed for Hartford and Mattawan.

SOLID WASTE MANAGEMENT ALTERNATIVES

The following briefly describes all solid waste management systems in 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 each non-selected alternative are located in Appendix B.

Before deciding on a selected system, the County considered three-management system options. These proposed alternatives were discussed by the County solid waste planning committee and evaluated against the goals and objectives set forth in the Introduction to this plan. Alternatives were also judged according to technical feasibility, economic feasibility and public acceptance.

Management System No. 1

This option calls for maintaining the status quo of solid waste management and resource recovery education in the County. MSU Extension Resource Recovery staff will continue to be funded through the county general fund and MSU. Resource Recovery programs will continue to be funded with a combination of MSU Extension budget operating dollars, township pledges, citizen user fees and private industry donations. New programs will be established based on citizen request and need assessments. Expansion and improvement will be done yearly to better optimize available resources. Resource recovery education within the school system will continue to be provided on an on-call basis, and a library of up to date resource material will be maintained at the MSU Extension office. The World Wide Web will be utilized to provide up-to-date information to the public. Data regarding waste disposal rates will be obtained from the DEQ via the annual landfill data reports. Recycling and recovery rates will be estimated from national and state trends and accepted by those firms who voluntarily supply the data. All solid waste services will be provided by the private sector. Landfills outside the county will be utilized for solid waste disposal.

Given the goals and objectives set forth in the Introduction of this Plan, this alternative does not seem acceptable.

Management System No. 2

This option is similar to management system number three, except that it takes into account what can reasonably be done within the next five years given current funding and personnel. It explores how to realistically obtain additional funding for programming. As with management system number one, landfills outside the county will be utilized for waste disposal.

Since this management option strives to achieve all goals and objectives taking into account current funding and personnel issues, it is the management option of choice.

Management System No. 3

Management system number three incorporates achieving all the goals and objectives set forth in the Introduction of this plan. It assumes that additional funding and personnel is not an issue. Also assumed is that all residents will be supportive of all programs and that intergovernmental cooperation will occur. As with the previous options, landfills outside the county will be utilized for waste disposal.

Since funding and intergovernmental cooperation are always issues, it does not seem practical to choose this management system.

Alternative System Evaluation

To determine which alternative system would be best for Van Buren County, a decision matrix was created, see page II-22. Major goals and objectives were rated on a scale of 1 to 10 on how important each one was to each individual committee member. Each of the alternatives was then rated on how well they meet the goal or objective criterion. Scores were calculated for each alternative by multiplying the weight of the goal/objective by how well it meet the criterion and then adding up all the scores. Based on these scores, it was determined that alternative three would probably be the best management system. Though, management system two scored close to system three. Therefore, alternatives two and three were re-evaluated based on current available funding and the availability of securing additional funding. It was then determined that alternative two would be the best option for the County taking into account both the decision matrix and the funding situation.

Van Buren County Solid Waste Management Plan
Decision Matrix

On a scale of 1 to 10, how important :		On a scale of 1 to 10, how well Does Alt #1 meet this criterion :			On a scale of 1 to 10, how well Does Alt #2 meet this criterion:			On a scale of 1 to 10, how well does Alt #3 meet this criterion:		
Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11
are requirements to purchase recycled products to overall waste reduction, pollution prevention and resource recovery?		With the current requirements to purchase recycled products?			With the policy to encourage governmental units to purchase recycled products?			With the policy to encourage governmental units to purchase recycled products?		
are requirements to recycle reusable materials ?		With the current encouragement to commercial and inductrial facilities?			With the policy to encourage groups that bid waste contracts to require contractor to recycle paper, metals and HDPE-2?			With the policy to encourage groups that bid waste contracts to require contractor to recycle paper, metals and HDPE-2 and maintain records of amounts recycled?		
are requirements to collect data on amount of waste generated and amount recycled?		With the current requirements?						With the requirement for the contractor to provide this information annually to the county resource recovery agent?		
					With obtaining information as practical from haulers concerning waste collection and recycling ?			by actively seeking local ordinance requiring waste haulers to provide vo'ume information to the county resource recovery agent?		
are waste audits in improving waste reduction, pollution prevention and resource conservation ?		With the current program to provide assistance only upon request ?			by enabling at least 12 waste audits per plan year?			with the requirement to perform a minimum of 12 waste audits per plan year?		
is a volume based residential waste disposal system in the overall goal of waste reduction, pollution prevention and resource recovery?		With the current program only available by agreement between supplier and customer?			With the development of a strategy to institute a volume based Resiedntial waste disposal program?			with the requirement to develop and implement a volume based waste disposal system within the county		
are numerical recycling recovery rate goals in achieving desired resource recovery rates?		With the current program to request numbers from major players only?			With the program to establish a baseline of recovery rates as well as can be done and strive to increase the recovery rates each year			with the requirement to establish a baseline in 1999 and achieve a 5% increase in recovery rates each year until 30% is achieved?		
is time spent by resource recovery staff to obtain grants, in-kind support, and private sponsorships to fund additional resource recovery efforts?		by not actively seeking, but accepting any monies received			by establishing a program to solicit funds to help fund programs in general?			by establishing a program to solicit funds to actually fund specific programs		
are scrap tire collection programs to the overall goals of waste reduction, pollution prevention and resource recovery?		With the current program of supporting local collection activities?			With the program to develop a strategy to improve access and funding for tire collection programs			With the requirement to obtain commitment from each governmental unit to sponsor a biennial tire collection program?		
is maintaining a well trained and knowledgable solid waste staff to the overall goals of waste reduction, pollution prevention and resource recovery?		With the current program of utilizing only instate conference programs ?			With the recommendation for one national conference every two years?			With the recommendation for one national conference every year?		
Totals										

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.

Alternative #2

Waste Reduction/Pollution Prevention & Resource Conservation

- Municipalities will be encouraged to adopt a waste reduction/purchasing policy requiring the purchase of products made from recycled materials.
- Communities and groups that bid waste contracts will be encouraged to include requirements that the contractor will recycle paper, metals (Al and Fe) and plastic (HDPE 2).
- Increase participation in waste reduction, recycling and composting programs will be attempted by enabling at least 12 commercial or industrial waste audits during each year of the plan.
- Access to the current household hazardous waste collection program in Van Buren County will be expanded and improved to maximize participation.
- Attempts will be made to obtain commitments from all public and private schools in Van Buren County to schedule a minimum of 2 hours per year for presentation of waste reduction, reuse, recycling, composting and natural resources conservation and protection.
- Resource recovery classroom materials suitable for use in all elementary and secondary grade levels will be obtained.
- Informational meetings on resource recovery will be conducted at least monthly for youth organizations and governmental units in Van Buren County.
- Resource recovery speaker's bureau and materials for presentations to civic organizations will be developed.
- A solid waste/resource recovery symposium for elected officials will be conducted once every election cycle
- Continuous upgrades regarding the availability of information and improvement of access to and dissemination of, resource recovery materials to all county residents will be done.
- A strategy for instituting volume based residential waste disposal charges throughout the county will be developed.

Resource Recovery: Recycling & Composting Programs

- A resource library regarding backyard and large scale composting systems will be maintained.
- A baseline of recycling recovery rates in 1999, as well as can be done, will be established and strives made to increases the recycling recovery rates each year.
- A directory of all residential and business recycling opportunities will be maintained.
- The Master Composter Education program will be expanded into adult, alternative or other formal education programs in the county.
- A strategy will be developed to improve access and funding for a tire collection program.

Collection, Process and Transportation

- Local agreements and ordinances will be maintained that specify collection services to be provided by private sector.
- Development or siting of materials recovery facilities and processing facilities in the county and region will be promoted.
- Private sector operation will be maintained to manage collection processes and transportation components.

Sanitary Landfill

- The current system of transfer station contracts between townships and private industry will be maintained.

Institutional Arrangements

- Grant monies, in-kind support and private sponsorships will be obtained to help fund resource recovery programs.
- The County, in cooperation with Michigan State University Extension, will provide a full time, salaried staff position solely dedicated to implementation of the Solid Waste Management Plan. Adequate funding will be provided to ensure that a highly qualified staff person can be attracted, trained and retained.
- A budget line item will be added to provide additional staff and resources, if necessary, to fully implement the plan.
- The County will maintain an active membership in the Southwest Michigan Solid Waste Consortium to ensure the Van Buren county interests are represented within the framework of regional programs.
- A solid waste management committee will be maintained to provide oversight and recommendations to assist in the implementation of the Plan.
- Information from each waste hauler will be obtained, as practical, about volume information on solid waste and recyclables generated within the township or city. It will be requested that recyclable volume information be separated by type of material where practical.
- A budget line item will be added so that the Resource Recovery staff can stay abreast of trends and alternatives, current and proposed laws and regulations to solid waste management, recycling, and composting by attending a minimum of one national conference every two years.

IMPORT AUTHORIZATION

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

Table 1-A
CURRENT IMPORT VOLUME AUTHORIZATION OF SOLID WASTE

Importing County	Exporting County	Facility Name[1]	Authorized Quantity Daily	Authorized Quantity Annual	Authorized Conditions[2]
Van Buren	All Michigan Counties that authorize such export.		Up to 100%	Up to 100%	P

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
[2] Authorization indicated by P= Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

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

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

Importing County	Exporting County	Facility Name[1]	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions[2]
Van Buren	All Michigan Counties that authorize such export		Up to 100%	Up to 100%	P

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
[2] Authorization indicated by P= Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

EXPORT 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 2-A.

Table 2-A
CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

Exporting County	Importing County	Facility Name[1]	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions[2]
Van Buren	Barry		Up to 100%	Up to 100%	P
Van Buren	Berrien		Up to 100%	Up to 100%	P
Van Buren	Calhoun		Up to 100%	Up to 100%	P
Van Buren	Ionia		Up to 100%	Up to 100%	P
Van Buren	Ottawa		Up to 100%	Up to 100%	P
Van Buren	St. Joseph		Up to 100%	Up to 100%	P
Van Buren	Washtenaw		Up to 100%	Up to 100%	P
Van Buren	Wayne		Up to 100%	Up to 100%	P

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
[2] Authorization indicated by P= Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

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 AUTHORIZING OF SOLID WASTE CONTINGENT ON NEW FACILITIES BEING SITED

Exporting County	Importing County	Facility Name[1]	Authorized Quantity/ Daily	Authorized Quantity/ Annual	Authorized Conditions[2]
Van Buren	Barry		Up to 100%	Up to 100%	P
Van Buren	Berrien		Up to 100%	Up to 100%	P
Van Buren	Calhoun		Up to 100%	Up to 100%	P
Van Buren	Ionia		Up to 100%	Up to 100%	P
Van Buren	Ottawa		Up to 100%	Up to 100%	P
Van Buren	St. Joseph		Up to 100%	Up to 100%	P
Van Buren	Washtenaw		Up to 100%	Up to 100%	P
Van Buren	Wayne		Up to 100%	Up to 100%	P

[1] Facilities are only listed if the exporting county is restricted to using specific facilities within the importing county.
[2] Authorization indicated by P= Primary Disposal; C = Contingency Disposal; * = Other conditions exist and detailed explanation is included in the Attachment Section.

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-8 through III-15 contain descriptions of the solid waste disposal facilities which are located outside of the County which will be utilized by the County for the planning period. Additional facilities within the County with applicable permits and licenses may be utilized as they are sited by this Plan, or amended into this Plan, and become available for disposal. If this Plan update is amended to identify additional facilities in other counties outside the County, those facilities may only be used if such import is authorized in the receiving County's Plan. Facilities outside of Michigan may also be used if legally available for such use.

Type II Landfill:

C & C Landfill
Arbor Hills Landfill
Autumn Hills
Pitch Sanitary Landfill
Southeast Berrien
Westside Recycling and Disposal Facility
Orchard Hills
Forest Hills
Hastings Sanitary
South Kent County Landfill
Woodland Meadows Recycling and Disposal Facility

Type B Transfer Station

Bangor Twp Transfer Station
City of Bangor Transfer Station
Covert Twp Transfer Station
Paw Paw Twp Transfer Station
Pine Grove Twp Transfer Station
Bloomingdale Twp Transfer Station
Columbia Twp Transfer Station
South Haven/Geneva Transfer Sta.
Antwerp Twp Transfer Station
Keeler Twp Transfer Station

Type A Transfer Station

South Haven Transfer Station

TYPE II LANDFILLS

Arbor Hills Landfill

Location: Washtenaw County, Salem Township
Owner: BFI Waste Systems of North America
Operating status: open and licensed
Wastes received: residential, commercial, industrial, construction & demolition contaminated soils and special wastes (non-hazardous solid and semi-solid wastes, no hazardous or liquid wastes)
Total area of facility property: 936 acres
Total area sited for use: 356 acres
Total area permitted: 217 acres
Area in operation: 113 acres
Area not excavated: 104 acres
Current capacity: 30,500,000 yds^3 airspace or 61.5 million yds^3 of capacity
Estimated Lifetime: 176 years
Estimated days open per year: 265 days
Estimated yearly disposal volume: 3,500,000 yds^3
Annual landfill gas recovery: 18 megawatts

Autumn Hills Recycling & Disposal Facility

Location: Ottawa County, T5N R14W section 36
Owner: Autumn Hills RFD- A division of Waste Management of Michigan, Inc.
Operating status: open, licensed and construction permit
Wastes received: residential, commercial, industrial, construction & demolition contaminated soils and special wastes (exhausted oak wood trays, minor first aid waste, contaminated pharmaceuticals manufacture, paint booth fibers, dewatered waste water treatment sludge, out of spec/out of date food supplements, spent epoxy powder coatings, sand blasting sand, wood chips/dust from production, shot blast, foundry sand, filter press cake, incinerator ash, saw dust, auto fluff, asbestos, grinding sludge, carwash sand pit/traps, and food materials)
Total area of facility property: 314 acres
Total area sited for use: 197 acres
Total area permitted: 99.3 acres
Area in operation: 35.1 acres
Area not excavated: 64.2 acres
Current capacity: 20.75 million tons
Estimated Lifetime: 30.2 years
Estimated days open per year: 286 days
Estimated yearly disposal volume: 500, 000 tons
Annual landfill gas recovery: n.a.

C&C Landfill

Location: Calhoun County, Convis Township
Owner: BFI Waste Systems of North America, Inc.
Operating status: open and licensed
Wastes received: residential, commercial, industrial, construction & demolition contaminated soils and special wastes (non-hazardous solid and semi-solid wastes, no hazardous or liquid wastes)
Total area of facility property: 224 acres
Total area sited for use:
Total area permitted: 154 acres
Area in operation: 33 acres
Area not excavated: 21 acres
Current capacity: 3,360,000 yds^3
Estimated Lifetime: 7 years
Estimated days open per year: 286 days
Estimated yearly disposal volume: 1,100,000 yds^3
Annual landfill gas recovery: n.a.

Forest Lawn Landfill

Location: Berrien County
Owner: Forest Lawn Landfill, Inc.
Operating status: open and licensed
Wastes received: residential, commercial, industrial, construction & demolition, special wastes (non-hazardous commercial and industrial wastes that have been approved for disposal) and other (fly ash, foundry sand, trees & stumps, wastewater sludge and asbestos)
Total area of facility property: 284 acres
Total area sited for use: 135 acres
Total area permitted: 135 acres
Area in operation: 26 acres
Area not excavated: 78 acres
Current capacity: 5 million yds^3
Estimated Lifetime: 7 years
Estimated days open per year: 286 days
Estimated yearly disposal volume: 1,500,000 yds^3
Annual landfill gas recovery: n.a.

Hastings Sanitary Service
City Environmental Services Landfill, Inc. of Hastings (CESLH)

Location: Barry County; T3W R8N Section 6
Owner: City Management Corp.
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils, special waste (foundry sand, fly ash, waste water sludge, tress and stumps) and other (type III wastes)
Total area of facility property: 330 acres
Total area sited for use: 330 acres
Total area permitted: 48 acres
Area in operation: 19.5 acres
Area not excavated: 28.5 acres

Current capacity: 500,000 yds^3
Estimated Lifetime: 23 years
Estimated days open per year: 308 days
Estimated yearly disposal volume: 175,00 tons
Annual landfill gas recovery: n.a.

Orchard Hill Landfill

Location: Berrien County; T2S R17W Sections 28 & 33
Owner: Landfill Management Co.
Operating status: open and licensed
Wastes received: residential, commercial, industrial, construction & demolition and other (fly ash, foundry sand, trees and stumps, wastewater sludge and asbestos)
Total area of facility property: 160 acres
Total area sited for use: 117 acres
Total area permitted: 117 acres
Area in operation: 53 acres
Area not excavated: 64 acres
Current capacity: 6.3 million yds^3
Estimated Lifetime: 19.5 years
Estimated days open per year: 285 days
Estimated yearly disposal volume: 500,000 yds^3
Annual landfill gas recovery: n.a.

Pitsch Sanitary Landfill

Location: Ionia County
Owner: Pitsch companies
Operating status: open and licensed
Wastes received: residential, commercial, construction & demolition, contaminated soils and special wastes (street sweepings and asbestos)
Total area of facility property: 143.5 acres
Total area sited for use: 28.36 acres
Total area permitted: 28.36 acres
Area in operation: 9.87 acres
Area not excavated: 70 acres
Current capacity: 415,000 yds^3
Estimated Lifetime: 5 years
Estimated days open per year: 307 days
Estimated yearly disposal volume: 83,000 yds^3
Annual landfill gas recovery: n.a.

South Kent County Landfill

Location: Kent County
Owner: Kent County (public)
Operating status: open, licensed and construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils and special wastes (foundry sands, street sweepings, sludge)
Total area of facility property: 250 acres
Total area sited for use: 112 acres
Total area permitted: 112 acres

Area in operation: 31 acres
Area not excavated: 81 acres
Current capacity: 7.6 million tons
Estimated Lifetime: 38 years
Estimated days open per year: 310 days
Estimated yearly disposal volume: 155,000 yds^3
Annual landfill gas recovery: n.a.

Southeast Berrien County Landfill

Location: Berrien County; T8S R17W Section 6
Owner: SE Berrien County Landfill Authority
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils, special wastes (non-hazardous commercial and industrial wastes that have been approved for disposal)and other (asbestos)
Total area of facility property: 160 acres
Total area sited for use: 100 acres
Total area permitted: 50 acres
Area in operation: 42 acres
Area not excavated: 8 acres
Current capacity: 4.2 million yds^3
Estimated Lifetime: 10 years
Estimated days open per year: 275 days
Estimated yearly disposal volume: 650,00 yds^3
Annual landfill gas recovery: n.a.

Westside Recycling & Disposal Facility

Location: St. Joseph County; T6S R2W Section 26
Owner: Waste Management of Michigan, Inc.
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminated soils, and special wastes (non-hazardous, non-liquid industrial wastes such as foundry sand, asbestos and ash)
Total area of facility property: 640 acres
Total area sited for use: 490 acres
Total area permitted: 85 acres
Area in operation: 51 acres
Area not excavated: 34 acres
Current capacity: 14,790,000 yds^3
Estimated Lifetime: 12 years
Estimated days open per year: 300
Estimated yearly disposal volume: 1.2 million yds^3
Annual landfill gas recovery: n.a.

Woodland Meadows Recycling & Disposal Facility-Van Buren

Location: Wayne County; T3S R8E Section 1
Owner: Waste Management of Michigan, Inc.
Operating status: open, licensed, construction permit
Wastes received: residential, commercial, industrial, construction & demolition, contaminates soils and special waste (sludge-provided at least 30% solids)
Total area of facility property: 214 acres
Total area sited for use: 214 acres
Total area permitted: 148 acres
Area in operation: 70 acres
Area not excavated: 78 acres
Current capacity: 26,520,800 yds^3
Estimated Lifetime: 19.8 years
Estimated days open per year: 305
Estimated yearly disposal volume: 1,304,200 yds^3
Annual landfill gas recovery: 400,000 megawatts

Type A Transfer Stations

Quality Refuse TS

Location: Van Buren County
Final disposal site: Forest Lawn Landfill
Owner: reliable Disposal Inc. (private)
Operating status: open & licensed
Waste types received: residential, commercial, industrial, and special wastes (some contaminates soils)
Total area of facility property: 3.3 acres
Total area sited for use: 3.3
Estimated days open per year: not available
Estimated yearly disposal volume: not available

TYPE B TRANSFER STATIONS

Antwerp Township Transfer Station

Location: Van Buren County
Final disposal site: Orchard Hills
Owner: Antwerp Township (public)
Operating status: open & unlicensed
Waste types received: residential and construction & demolition
Total area of facility property: 10.3
Total area sited for use: 1 acre
Estimated days open per year: 104
Estimated yearly disposal volume: 1680 yds^3

City of Bangor - Recycling Center

Location: Van Buren County
Final disposal site: Orchard Hills
Owner: City of Bangor (public)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 12 acres
Total area sited for use: 100 x 100 feet
Estimated days open per year: 104
Estimated yearly disposal volume: 3500 yds^3

Bangor Township Transfer and Recycling Station

Location: Van Buren County;
Final disposal site: Forest Lawn
Owner: Reliable Disposal Inc. (private)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 0.9
Total area sited for use: 0.9
Estimated days open per year: 52
Estimated yearly disposal volume: 1040 yds^3

Bloomingdale Township Transfer Station

Location: Van Buren County
Final disposal site: Forest Hills
Owner: Bloomingdale Township (public)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 5 acres
Total area sited for use: 1 acre
Estimated days open per year: 90
Estimated yearly disposal volume: 1000 yds^3

Columbia Township Transfer Station

Location: Van Buren County; T1S R15W Section 28
Final disposal site: Forest Hills
Owner: Best Way Disposal (private)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 2.1 acres
Total area sited for use: 2.1
Estimated days open per year: 104
Estimated yearly disposal volume: 1100 yds^3

Covert Township Transfer Station

Location: Van Buren County, T2 R17 Section 16
Final disposal site: Forest Hills
Owner: Covert Township (public)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 20 acres
Total area sited for use: 3 acre
Estimated days open per year: 100
Estimated yearly disposal volume: 667 tons

Keeler Township Transfer Station

Location: Van Buren County
Final disposal site: Forest Lawn
Owner: Keeler Township
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: approximately 1 acre
Total area sited for use: approximately 1 acre
Estimated days open per year: 28
Estimated yearly disposal volume: 336 yd^3

Paw Paw Township Transfer Station

Location: Van Buren County
Final disposal site: Forest Hills
Owner: Best Way Disposal
Operating status: open & unlicensed
Waste types received: commercial and residential
Total area of facility property: approximately 14 acres
Total area sited for use: approximately 1 acre
Estimated days open per year: 120
Estimated yearly disposal volume: not available

Pine Grove Township Transfer Station

Location: Van Buren County; T1 R13
Final disposal site: Forest Hills
Owner: Best Way (private)
Operating status: open & unlicensed
Waste types received: residential
Total area of facility property: 1 acre
Total area sited for use: 1 acre
Total area permitted: 1 acre
Estimated days open per year: 100
Estimated yearly disposal volume: 1764 yds^3

South Haven-Geneva Joint Transfer Station

Location: Van Buren County
Final disposal site: Forest Lawn
Owner: South Haven and Geneva Townships (public)
Operating Status: open & unlicensed
Waste types received: residential
Total area of facility property: 9.8
Total area sited for use: 1 acre
Estimated days open per year: 52
Estimated yearly disposal volume:

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION:

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

The current system, described in detail on pages II-11-13, will remain in effect with some minor improvements. Disposal services will still be provided by the private sector on a subscription basis, but the County will promote volume related charging as a tool to encourage waste reduction and recycling. The county's road network is sufficiently developed to ensure that all residents have access to garbage collection service.

RESOURCE CONSERVATION EFFORTS

The following describes the selected system's proposed conservation efforts to reduce the amount of solid waste generated throughout the County. The annual amount of solid waste currently or proposed to be diverted from landfills and incinerators is estimated for each effort to be used, if possible. Since the 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, business, and industries are encouraged to explore the options available to their lifestyles, practices, and processes which will reduce the amount of materials requiring disposal.

The following are estimates based on information collected by the resource recovery agent.

Effort Description	Estimated Diversion (Tons/Yr)		
	Current	5th Year	10th Year
Yard Waste Collection, Composting & Grass-cycling	9308	*	*
Curbside Recycling (Residential)	97	*	*
Drop-off Recycling	1696	*	*
Household Hazardous Waste Collection	3	*	*
Tire Collection	41	*	*
Commercial / Industrial Recycling	8	*	*
Bottle Bill	1350	*	*
Paper Drives	240	*	*
Nickle-Cadmium Batteries	0.03	*	*
Lead Acid Batteries (industrial & residential)	90	*	*
Scrap Metal (industrial & residential)	60	*	*
Motor Oil	15600 gal	*	*

* At this time five and ten year projections cannot be accurately made. Individual units of government or the users fund most of our programs. Since programs are re-evaluated each year by the units of government for continued funding, they are highly unstable. It is the intention of this plan to continue to gather accurate recycling data and improve current programs. Alternative funding mechanisms will be investigated, but until then, an accurate projection of the five and ten year diversion rates cannot be made.

WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS

Volume Reduction Techniques

The following describes the techniques used 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 the 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 implementation programs or expected results of proposed programs is attached.

Technique Description	Estimated Air Space Conserved		
	yds3/ yr		
Volume reduction techniques are implemented by the private			
sector. The County is not aware of any proposed			
changes in technology.			

OVERVIEW OF RESOURCE RECOVERY PROGRAMS

The following describes the type and volume of material in the County's waste stream available for recycling or composting programs. Conditions in the county that may effect recycling or composting programs and potential benefits derived from these programs are also discussed. Impediments to recycling or composting programs are listed, followed by a discussion regarding reducing or eliminating such impediments.

A table listing the types and volumes of recoverable materials in the county's waste stream can be found on page A-2 of the Appendix to this plan. Those figures, which do not include municipal treatment or paper sludge wastes, were taken from Southwest Michigan Recycling Market Development Strategy: Part II Background, May 1995.

One impediment to recycling in Van Buren County is the lack of curbside recycling. Many people are unwilling to travel the necessary miles, up to ten miles in some areas, to recycle at a drop-off center. Also, many of the recycling drop-off centers have limited hours, so it is difficult for some people to recycle. Expanding drop-off hours, to include evening hours, would be up to the individual municipality since they fund those positions. Setting up another drop-off center for the southern municipalities in the County is a possibility.

Another impediment to recycling is the cost. Many people believe that recycling should be free, they are unwilling to pay even one dollar to recycle. The bottle bill has confused some people and they think they should be reimbursed for everything that they recycle.

People's attitude about consumerism is also an impediment to recycling. Many people believe it is one of their rights to buy and throw away as much as they want. They do not believe that we will ever run out of natural resources. The lack of a landfill in the county makes some people apathetic to conservation and recovery issues. Continued public education is the key to helping consumers understand the importance of resource conservation and recovery.

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

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

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

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

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

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

RECYCLING AND COMPOSTING

The following is a brief analysis of the recycling and composting programs selected for the County in this Plan. Additional information on operation of recycling and composting programs is included in Appendix A. This analysis covers various factors within the County and the impacts of these factors on recycling and composting. Following the written analysis, the tables on pages III-21-23 list the existing recycling, composting, and source separation of hazardous materials programs that are currently active in the County and which will continue as part of this Plan. The second group of three tables on page III-24 list the recycling, composting and source separation of hazardous materials programs that are proposed in the future for the County. It is not this Plan's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

Several factors impacting recycling and composting activities were addressed on page III-19. In spite of the difficulties and because of the need, the County intends to maintain an active role in promoting resource recovery.

Should an alternative funding mechanism arise, the county may pursue that option. However, the nature of its involvement would probably not change. A system founded on private sector operations and public sector oversight is consistent with local values and the political climate.

TABLE III-1
RECYCLING

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Development	Program Operation	Program Evaluation
	Antwerp	Public	D	W	A, B, C, E, F	6	6	6
	Bangor City	Public	D	W	A, B, C, E, F	6	6	6
	Bangor Township	Public	D	W	A, B, C, E, F	6	6	6
	Bloomingdale Township	Public	D	W	A, B, C, E, F, K	6	6	6
	Covert Township	Public	D	W	A, B, C, E, F	6	6	6
	Hartford City	Private	C		A, B, E, F	5	5	5

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

[1]Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.
[2]Identified by 1= Designated Planning Agency; 2= County Board of Commissioners; 3= Department of Public Works; 4= Environmental Group; 5= Private Owner/Operator; 6= Individual Municipality
[3]Identified by C= curbside; D= drop-off; O= onsite; and if other, explained
[4]Identified by D= daily; W= weekly; M= monthly; and if seasonal service is also indicated by Sp= spring; Su= summer; Fa= fall; Wi= winter
[5]Identified by the materials collected by listing of the letter located by that material type. A= plastics; B= newspaper; C= corrugated containers; D= other paper; E= glass; F= metals; P= pallets; J= construction/demolition; K= tires; L1, L2 etc. = as identified on page III-26

TABLE III-1 (continued)
RECYCLING

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Development	Program Operation	Program Evaluation
	Mattawan Village	Private	C	Bi-monthly	A, B, E, F	5	5	5
	Paw Paw Village	Private	C	Bi-monthly	A, B, E, F	5	5	5
	Paw Paw Township	Private	D	W	A,B, C, E, F, K	5	5	5
	Pine Grove Township	Public	D	W	A, B, C, E, F	6	6	6
	South Haven City	Private	D	W	A, B, C, E, F	5	5	5
	South Haven City	Private	D	D	A, B, C, E, F	5	5	5
	South Haven City	Private	C	D	A, B, C, E, F	5	5	5
	South Haven/ Geneva Township	Public	D	W	A, B, C, E, F	6	6	6

[1]Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.
[2]Identified by 1= Designated Planning Agency; 2= County Board of Commissioners; 3= Department of Public Works; 4= Environmental Group; 5= Private Owner/Operator; 6= Individual Municipality
[3]Identified by C= curbside; D= drop-off; O= onsite; and if other, explained
[4]Identified by D= daily; W= weekly; M= monthly; and if seasonal service is also indicated by Sp= spring; Su= summer; Fa= fall; Wi= winter
[5]Identified by the materials collected by listing of the letter located by that material type. A= plastics; B= newspaper; C= corrugated containers; D= other paper; E= glass; F= metals; P= pallets; J= construction/demolition; K= tires; L1, L2 etc. = as identified on page III-26.

TABLE III-2
COMPOSTING

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Development	Program Operation	Program Evaluation
Leaf & Brush Pick-up	Bangor City	Public	C	Sp, Fa	G, L W	3	3	3
Leaf Pick-up	Decatur Village	Public	C	M	L	3	3	3
Leaf & Brush Pick-up	Gobles City	Public	C	Bi-monthly	G, L, W	3	3	3
Leaf Pick-up	Hartford City	Public	C	Sp, Fa	L	3	3	3
Leaf Drop-off	Lawrence Village	Public	D	D	L, W	3	3	3
Leaf & Brush Pick-up	Lawton Village	Public	C	M	G, L, W	3	3	3
Leaf & Brush Pick-up	Paw Paw Village	Public	C	Fa Su	L W	3	3	3
Leaf & Brush Pick-up	South Haven City	Private	C	Fa	L, W	5	5	5

[1]Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.
[2]Identified by 1= Designated Planning Agency; 2= County Board of Commissioners; 3= Department of Public Works; 4= Environmental Group; 5= Private Owner/Operator; 6= Individual Municipality
[3]Identified by C= curbside; D= drop-off; O= onsite; and if other, explained
[4]Identified by D= daily; W= weekly; M= monthly; and if seasonal service is also indicated by Sp= spring; Su= summer; Fa= fall; Wi= winter
[5]Identified by the materials collected by listing of the letter located by that material type. G= grass clippings, L= leaves; F= food; W= wood; P= paper; S= municipal sewage sludge; A= animal waste/bedding; M= municipal solid waste; L1, L2 etc. = as identified on page III-26.

TABLE III-3
SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS

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

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Develop-ment[2]	Program Operation[2]	Program Evaluation[2]
Household Hazardous Waste Collection	Participating Municipalities	Public	D	Bi-annual	AR, A, AN, B1, B2, C, H, OF, P, PS,	6	5	6
	South Haven	Private	O	D		5	5	5

[1]Identified by where the program will be offered. If throughout the planning area, then listed by planning area; if only in specific counties, then listed by county; if only in specific municipalities, then listed by its name and respective county.
[2]Identified by 1= Designated Planning Agency; 2= County Board of Commissioners; 3= Department of Public Works; 4= Environmental Group; 5= Private Owner/Operator; 6= Individual Municipality
[3]Identified by C= curbside; D= drop-off; O= onsite; and if other, explained
[4]Identified by D= daily; W= weekly; M= monthly; and if seasonal service is also indicated by Sp= spring; Su= summer; Fa= fall; Wi= winter
[5]Identified by the materials collected by listing of the letter located by that material type. AR= aerosol cans; A= automotive products except used oil, oil filters & 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 on page III-26.

Table III-4
PROPOSED RECYCLING

The County will work to improve current recycling programs.

Table III-5
PROPOSED COMPOSTING

The County will continue to provide and expand the Master Composter program. The County will also assist any municipality that chooses to initiate a new composting program.

Table III-6
PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS

The County will continue to provide household hazardous waste programs. Alternative funding sources and improvement of participation will be explored.

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.

Public:

Each individual municipality is responsible for managing their selected recycling and composting programs. The municipalities also choose whether or not they will participate in the household hazardous waste program. The Resource Recovery Agent coordinates the household hazardous waste program and aides municipalities in establishing recycling programs. The Resource Recovery Agent also provides educational program and information to residents and businesses.

Private:

Privately owned waste management companies supervise recycling operations under contracts with local government.

PROJECTED DIVERSION RATES:

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

Collected Material:	Projected Annual Tons Diverted: Current	5th Yr.	10th Yr	Collected Material:	Projected Annual Tons Diverted: Current	5th Yr.	10th Yr.
A. Total Plastic	*	*	*	G. Grass & Leaves	*	*	*
B. Newspaper	*	*	*	H. Total Wood Waste	*	*	*
C. Corrugated Container	*	*	*	I. Construction & Demolition	*	*	*
D. Total Other Paper	*	*	*	J. Food & Food Processing	*	*	*
E. Total Glass	*	*	*	K. Tires	*	*	*
F. Other Materials	*	*	*	L. Total Metals	*	*	*

Current annual tons diverted cannot be accurately estimated. The ten drop-off sites do not separate recyclables; therefore, only an estimate of total recycling can be made. Currently, only one company consistently reports numbers for their curbside service.

One of the objectives of this Plan update is to develop a baseline of recycling information. This will be difficult since many of the waste haulers are unwilling to share this information.

MARKET AVAILABLITY 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 Market	Out-of-State Markets	Collected Material:	In-State Markets	Out-of-State Markets
A. Total Plastics	80%	20%	G. Grass & Leaves	100%	
B. Newspaper	100%		H. Total Wood Waste	100%	
C. Corrugated Containers	100%		I. Construction and Demolition		
D. Total Other Paper	90%	10%	J. Food and Food Processing		
E. Total Glass	90%	10%	K. Tires	50%	50%
F. Other Materials		100%	L. Total Metals	100%	

Information based on the Southwest Michigan Recycling Market Development Strategy and known local market patterns.

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. Those programs are offered to avoid miscommunication which results in improper handling of solid waste and to provide assistance to the various entities who participate in such programs as waste reduction and waste recovery. Following is a listing of the programs offered or proposed to be offered in this County.

Program Topic	Delivery Medium	Targeted Audience	Program Provider
recycling, composting, HHW[1], resource conservation, volume reduction	newspaper, flyers, organizational newsletters	general public	MSU Extension
recycling, composting, HHW[1], resource conservation, volume reduction	workshop	students, K-12 and Head Start	MSU Extension
composting	workshop	general public	MSU Extension
recycling, composting, HHW[1], resource conservation, volume reduction	Exhibits at County Fair, Paw Paw Wine & Harvest Festival	general public	MSU Extension
recycling, composting, HHW[1], resource conservation, volume reduction	workshop	general public	MSU Extension

[1] HHW= household hazardous waste

TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

This time table is a guideline to implementation 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	Timelines
Waste Reduction/ Pollution Prevention	On-Going
Resource Recovery: Recycling & Composting	On-Going
Collection Process & Transport	On-Going
Volume Reduction	On-Going
Institutional Arrangements	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.

Not Applicable

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.

The Plan includes sites that will address Van Buren County's solid waste needs through the planning period. Therefore, no facility siting procedure is included in this document.

SOLID WASTE MANAGEMENT COMPONENTS

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

Waste disposal components of the selected system will be implemented and enforced largely by existing state and federal solid waste management laws and regulations. Van Buren County staff will concentrate on the implementation of resource recovery components of the selected system.

IDENTIFICATION OF RESPONSIBLE PARTIES

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

Resource conservation:	**Responsible Party(ies)**
Source or Waste Reduction	Designates planning agency (DPA) through educational programming
Product Reuse	DPA through educational programming
Reduced Material Volume	Private Sector
Increased Product Lifetime	Private Sector
Decreased Consumption	DPA through educational efforts
Resource Recovery Programs:	
Composting	DPA (backyard composting education), local governments (municipal yard waste collection) and private sector waste firms (subscription yard waste service)
Recycling	DPA (education, local governments (funding, program evaluation and bids/contracts) and private sector (subscription recycling and drop-off center contracts)
Energy Production	NA
Volume Reduction Techniques:	Private Sector
Collection Process:	Private Sector
Transportation:	Private Sector
Disposal Areas:	
Processing Plant	NA
Incineration	NA
Transfer Stations	Private Sector & Local Municipalities
Sanitary Landfills	NA
Ultimate Disposal Area Uses:	Private
Local Responsibility for Plan Update Monitoring & Enforcement:	Van Buren County Board of Commissioners
Educational & Informational Programs:	DPA

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 the Plan must be specified below and the manner in which they will be applied.

____ 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:

_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:

Since Part 115 of Act 451, 1994 only limits enforcement if local ordinances pertaining to disposal areas, local governments are free to enact regulations relating to a variety of other waste management issues, such as backyard burning, junk cars, blight and litter control, illegal dumping and volume related charging for refuse collection.

CAPACITY CERTIFICATIONS

Every County with less than ten years of capacity identified in the Plan is required to annually prepare and submit to the DEQ an analysis and certification of solid waste disposal capacity validity 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 the Plan and an annual certification process is not included in the Plan. *see calculation below

[ ] 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 the DEQ. The County's process for determination of annual capacity and submission of the County's capacity certification is as follows:

Determination of sufficient capacity for Van Buren County's waste during the next ten years:

In 1998, 68,620 tons of waste was generated in Van Buren County, with current recycling, only 66,430 tons needed disposal. In the year 2010, it is estimates that 76,650 tons of waste will need to be disposed of from Van Buren County. Using the higher figure from 2010, it is estimated that a total of 766,500 tons of waste will need to be disposed of over the next ten years.

Taking into account only current facilities being used for disposal of Van Buren County waste, 86.5 years of capacity exist with 53,090,000 yds^3 of capacity. With this amount of space available, only 1.4% would need to be dedicated to Van Buren County waste. In addition, Van Buren County has secured several letters from disposal facilities that would accept up to 100% of their solid waste in the foreseeable future.

APPENDIX A

APPENDIX A

ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM

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

Following are possible strategies for implementing the selected system. This is intended to be a guide for whomever is implementing the selected system.

Possible Implementation Strategy

Encourage municipalities to adopt a waste reduction/purchasing policy requiring the purchase of products made from recycled materials.	• use current "successful" programs in county to encourage other • develop and mail "easy steps" sheet • follow through with phone calls • students write to communities to find out who has a waste reduction policy • Students attend township board meeting and ask board about their waste reduction policy. They would then do follow-up work • Solid waste committee would develop protocol lesson plans for use in classrooms. Activities would be linked to MI school standards • Get retired or interested teachers to develop lesson plans
Encourage communities and groups that bid waste contracts to include requirements that the contractor will recycle paper, metals (AL and Fe) and plastic (HDPE 2).	• Provide communities with sample bids
Increase participation in waste reduction, recycling and composting programs by enabling at least 12 commercial or industrial waste audits during each year of the plan.	• Use RETAP program to do free, private audits • Resource Recovery staff would develop ad and mail letters to companies • Include a testimonial letter in mailing
Expand and improve access to the current household hazardous waste collection program in Van Buren County to maximize participation.	• Joint collections with Berrien county • Get east side townships to use Kalamazoo facility • Do another "campaign" to nonparticipating townships
Obtain commitment from all public and private schools in Van Buren County to schedule a minimum of 2 hours per year for presentation of waste reduction, reuse, recycling, composting and natural resources conservation and protection.	• Approach Intermediate School District and offer programs • Create a list of programs for specific grades. Pick one day and promote to that school that you will be there and available to do short presentations.
Obtain resource recovery classroom materials suitable for use in all elementary and secondary grade levels.	• Use students and internet to get list of possible materials that would be reviewed by staff. • Encourage students to get teachers materials as gifts.

Conduct informational meetings on resource recovery at least monthly for youth organizations and governmental units in Van Buren County	• Increase awareness of programs Resource Recovery can provide. • Get blurbs in organizations' newsletters (4-H, Chamber of Commerce, etc.)
Develop resource recovery speaker's bureau and materials for presentations to civic organizations.	• Countywide speech contest for kids, Solid Waste Committee could be judges. • Use St. Joseph Toast Masters Club. • West Michigan Environmental Council out of Grand Rapids (group of businesses that discuss environmental issues.
Conduct a solid waste/resource recovery symposium for elected officials once every election cycle.	• Team up with consortium. • Involve Michigan Recycling Coalition (MRC), possible session at annual conference.
Continuously upgrade the availability of information and improve access to and dissemination of resource recovery materials to all county residents.	• Increase information on web site. • Enter "key words" for all web pages established. • Create short, informational brochures on specific resource recovery issues.
Develop a strategy for instituting volume based residential waste disposal charges throughout the county.	• Work with Southwest Michigan Solid Waste (SWMI) Consortium and the Technical Advisory Committee (TAC) • Provide municipalities with sample ordinances.
Maintain resource library in backyard and large scale composting systems.	• Expand current library. • Increase publicity of current information.
Establish a baseline of recycling recovery rates in 1999, as well as can be done, and strive to increase the recycling recovery rates each year.	• Use and expand baseline from the Solid Waste Plan data.
Maintain a directory of all residential and business recycling opportunities.	• Update current directory. • Get greater visibility in county-post office, laundromats, libraries, etc.
Expand the Master Composter Educational program into adult, alternative or other formal educational programs in the county.	• Approach ISD or alternative Ed classes.
Develop a strategy to improve access and funding for tire collection program.	• Ask township for sponsorships, possibly once every two years.
Maintain local agreements and ordinances that specify collection services to be provided by the private sector.	• No action needed.
Promote development or siting of materials recovery facilities and processing facilities in the county and region.	• To be determined.
Private sector operation will be maintained to manage collection processes and transportation components.	• No action needed.
Maintain current system of transfer station contracts between townships and private industry.	• No action needed

Obtain grant monies, in-kind support and private sponsorship to help fund resource recovery programs.	• Attend grant writing workshop. • Use internet and other sources to learn of possible grant opportunities.
The County, in cooperation with Michigan State University Extension, shall provide a full time, salaried staff position solely dedicated to implementation of the solid waste plan. Adequate funding should be provided to ensure that a highly qualified staff person can be attracted, trained and retained.	• Responsibility of County Extension Director and Solid Waste Management Committee.
A budget line item will be added, to provide additional staff and resources, if necessary, to fully implement the plan.	• As needed
The County shall maintain an active membership in the Southwest Michigan Solid Waste Consortium to ensure the Van Buren County interests are represented within the framework of regional programs.	• Responsibility of county to designate two representatives (not necessarily 2 commissioners) • Resource Recovery staff should be an active member of the technical advisory committee.
A Solid Waste Management Committee will be maintained to provide oversight and recommendations to assist in the implementation of the plan.	• Ask current committee members. • Find other interested individuals in community (information at fairs, township halls, and newspaper ad).
Obtain information from each waste hauler, as practical, about volume information on solid waste and recyclables generated within the township or city. Recyclables volume information should be separated by type of material where practical.	• Help municipalities develop ordinances. • Use information gathered for solid waste management plan.
A budget line item will be added so that the Resource Recovery staff can stay abreast of trends and alternatives, current and proposed laws and regulations to solid waste management, recycling, and composting by attending a minimum of one national conference every two years.	• Obtain grants or business sponsorship to help reduce cost to county.

EVALUATION OF RECYCLING

Section III of this Plan adequately describes the potential impediments, funding, market conditions and institutional arrangements.

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS

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

PROJECTED RECOVERY, MAY 1995[1]
(TONS PER YEAR))

Material	Recovery Potential (Estimated Generation x Residential Waste)	Recovery Potential (Estimated Generation x Business Waste)	Potential Total Waste Recovery (Tons Per Year)
Newsprint	3285 x 80% = 2628	1183 x 50% = 592	3220
Office Paper	365 x 25% = 91	591 x 75% = 443	534
Corrugated	2190 x 50% = 1095	9460 x 80% = 7568	8663
Magazines	1095 x 40% = 438	1183 x 25% = 296	734
Box Board	2190 x 50% = 1095	887 x 30% = 266	1361
Steel	1460 x 50% = 730	1183 x 90% = 1064	1794
Aluminum	365 x 90% = 3285	296 x 90% = 266	3551
Other Metals	365 x 0% = 0	296 x 80% = 237	237
HDPE Plastic	365 x 50% = 183	296 x 50% = 148	331
PET Plastic	365 x 50% = 183	296 x 50% = 148	331
Plastic Film	1095 x 0% = 0	591 x 25% = 148	148
Polystyrene Foam	365 x 30% = 110	296 x 50% = 148	258
Other Plastics	365 x 0% = 0	1183 x 30% = 355	355
Textiles	1460 x 0% = 0	887 x 30% = 266	266
Food Waste	4015 x 60% = 2409	2365 x 20% = 473	2882

Yard Waste	7665 x 90% = 6896	2365 x 90% = 2129	9025
Wood Waste	1460 x 30% = 438	1774 x 75% = 881	1319
Tires	365 x 50% = 183		183
Rubber		296 x 50% = 148	148
Other	2555 x 0% = 0	2070 x 0% = 0	0
Total	19764	15576	35340

[1] From Southwest Michigan Recycling Market Development Strategy: Part II Background, May 1995.

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 the past selection processes are also summarized along with how those problems were addressed.

Equipment Selection

Private industry is responsible for equipment selection.

Site Availability & Selection

Individual municipalities and private industry are responsible for selection and development of their own sites.

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.

Not Applicable.

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 arrangements within the County. Additionally, it may be necessary to cancel or enter into new or revised arrangements as conditions change during the planning period. The entities responsible for developing, approving, and enforcing these arrangements are also noted.

Ultimate responsibility for implementing the Solid Waste Management Plan rests with the County Board of Commissioners as part of their duties as general governance. The County Board has charged the Resource Recovery Agent to help implement the selected system. Local units of government have jurisdiction over local land use issues. The Environmental Division of Public Health is responsible for air and water quality issues. In addition, there is an inter-local agreement among seven counties which form the Southwest Michigan Solid Waste Consortium, to promote cooperative planning and programming on waste management issues.

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 Recovery Efforts	NA	Private & Public Sector
Resource Recovery Programs	9300	Private & Public Sector
Volume Reduction Techniques	NA	Private Sector
Collection Process	NA	Private Sector
Transportation	NA	Private Sector
Disposal Area	NA	Private Sector
Future Disposal Area	NA	Private & Public Sector
Management Arrangements	38835	County Appropriation and MSUE
Educational & Informational Programs	2650	County Appropriation and MSUE

[1]These components and their sub-components may vary with each system

EVALUATION SUMMARY OF THE SELECTED SYSTEM

The solid waste management system 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 accepted 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 transport 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:

Selected System

The selected system (Alternative System 2) was previously evaluated along with the other alternate systems in the Data Base portion of the Plan document. The following provides a summary of the advantages and disadvantages of the selected system.

Advantages

- All county residents have access to refuse collection and recycling
- Continuation of accepted local waste reduction programs
- Enhancement of waste reduction programs
- System is technically and economically feasible
- Reliance on exportation and out-of-county sanitary landfills

Disadvantages

- Reliance on exportation and out-of-county sanitary landfills
- Unstable funding source
- Recycling is not convenient for many residents
- Limited resources for educational programming

APPENDIX B

APPENDIX B

SYSTEM COMPONENTS

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

Alternative #1

Waste Reduction/Pollution Prevention & Resource Conservation

- Continue implementation of county's waste reduction policy.
- Continue to provide waste reduction and waste audit information to businesses that request assistance.
- Maintain county's Household Hazardous Waste Collection program and seek partnerships with townships and adjacent counties to increase the impact and efficiency of the program.
- Continue to promote waste reduction concepts through school programs and to consumers through point of purchase.

Resource Recovery: Recycling & Composting Programs

- Maintain current number of drop-off and recycling programs throughout the county
- Continue to encourage commercial and industrial source separation and recycling efforts.
- Continue to expand paper-recycling program to reach all county buildings.
- Continue backyard composting education and volunteer educator development through Master Composter program
- Continue to provide expertise to public and private yard waste collection and composting efforts.
- Maintain two backyard composting demonstration sites.
- Maintain resource library in backyard and large scale composting systems.

Collection Processes and Transportation

- Maintain current system of transfer station contracts between townships and private industry.
- Promote development or siting of materials recovery facilities and processing facilities in the county and region.
- Private sector operation precludes county role in management of most collection processes and transportation components.

Sanitary Landfill

- Continue current exportation of waste to existing sanitary landfills in other counties.

Institutional Arrangements

- Maintain current agreement between county and MSU Extension to maintain a resource recovery agent to provide solid waste education
- Maintain local agreements and ordinances that specify collection services to be provided by private sector.

Alternative #3

Waste Reduction/Pollution Prevention & Resource Conservation

- Encourage municipalities to adopt a waste reduction/purchasing policy requiring the purchase of products made from recycled materials.
- Encourage communities and groups that bid waste contracts to include requirements that the contractor will recycle paper, metals (Al and Fe) and plastic (HDPE 2) and will keep records on the amount recycled. The Contractor will provide an annual summary to the Resource Recovery Agent.
- Increase participation in waste reduction, recycling and composting programs by performing at least 12 commercial or industrial waste audits during each year of the plan.
- Expand and improve access to the current household hazardous waste collection program in Van Buren County to maximize participation.
- Obtain commitment from all public and private schools in Van Buren County to schedule a minimum of 2 hours per year for presentation of waste reduction, reuse, recycling, composting and natural resources conservation and protection.
- Obtain resource recovery classroom materials suitable for use in all elementary and secondary grade levels.
- Conduct informational meetings on resource recovery at least monthly for youth organizations and governmental units in Van Buren County.
- Develop resource recovery speaker's bureau and materials for presentations to civic organizations
- Conduct a solid waste/resource recovery symposium for elected officials once every election cycle
- Continuously upgrade the availability of information and improve access to and dissemination of resource recovery materials to all county residents
- Develop and implement a strategy for instituting volume based residential waste disposal charges throughout the county

Resource Recovery: Recycling & Composting Programs

- Maintain resource library in backyard and large scale composting systems.
- Establish a baseline of recycling recovery rates in 1999and increase the recycling recovery rates 5% each year until 30% of the total waste stream is recovered
- Maintain a directory of all residential and business recycling opportunities.
- Expand the Master Composter Education program into adult, alternative or other formal education programs in the county.
- Obtain a commitment from each township and city to sponsor a biennial scrap tire collection program.

Collection, Process and Transportation

- Maintain current system of transfer station contracts between townships and private industry.
- Promote development or siting of materials recovery facilities and processing facilities in the county and region.
- Private sector operation precludes county role in management of most collection processes and transportation components.
- Maintain local agreements and ordinances that specify collection services to be provided by private sector.

Sanitary Landfill

- Continue current exportation of waste to existing sanitary landfills in other counties.

Institutional Arrangements

- Obtain grant monies, in-kind support and private sponsorships to fund resource recovery education, scrap tire collection programs, recycling, household hazardous waste collection and composting programs.
- Enact County Ordinance to provide for a silent witness program to be funded at least in part by fine structures set up for illegal dumping.
- The County, in cooperation with Michigan State University Extension, shall provide a full time, salaried staff position solely dedicated to implementation of the solid waste plan. Adequate funding should be provided to ensure that highly qualified staff person can be attracted, trained and kept.
- A budget line item will be added to provide additional staff and resources, if necessary, to fully implement the plan.
- The County shall maintain an active membership in the Southwest Michigan Solid Waste Consortium to ensure the Van Buren county interests are represented within the framework of regional programs.
- A solid waste management committee will be maintained to provide oversight and recommendations to assist in the implementation of the plan.
- By local ordinance, each waste hauler would be required to provide volume information on solid waste and recyclables generated within the township or city. Recyclables volume information should be separated by type of material where practical.
- A budget line item will be added to provide funds so that the Resource Recovery staff can stay abreast of trends and alternatives, current and proposed laws and regulations to solid waste management, recycling, and composting by attending a minimum of one national conference per year.

EVALUATION SUMMARY OF NON-SELECTED SYSTEMS

The non-selected systems were previously evaluated in the Data Base section of the Plan. The following lists the advantages and disadvantages of the non-selected systems.

Advantages

- Public acceptance (Systems 1&3)
- All citizens have access to refuse collection (System 1&3)
- Educational efforts are maintained (System 1&3)

Disadvantages

- Reliance on exportation and out-of-county sanitary landfills (System 1&3)
- No enhancement of waste reduction programs (System 1)
- Unstable financial mechanism (System 1&3)
- Assumes that money is not a factor in expanding waste reduction programs (System 3)

APPENDIX C

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, a description of the appointment of the solid waste management planning committee and a member list for that committee.

PLAN DEVELOPMENT AND PUBLIC INVOLVEMENT

A list of meeting dates was sent to the County clerk and posted in the county building. All meetings were open to the public.

Committee Meeting Dates
August 31, 1998
September 14, 1998
October 12, 1998
November 9, 1998
October 12, 1998
January 11, 1999
February 8, 1999
April 12, 1999
May 10, 1999
June 14, 1999
July 20, 1999
September 20, 1999
October 25, 1999

PLANNING COMMITTEE APPOINTMENT PROCEDURE

Members for the Solid Waste Management Committee were solicited via letters mailed to: township supervisors, village managers, city managers, select industries (Welches, MPI Research, EPC, Pullman Industries, and Minute Maid), and solid waste management industries serving Van Buren County. See attachments for a sample letter. Opportunities for appointment to all county committees are also advertised once a year by the county administrator's office.

The Michigan State University Extension director then reviewed applications and made recommendations to the County Board of Commissioners. The Board of Commissioners then approved each appointee individually to serve until June 9, 2000 on the solid waste management planning committee. Letters were then sent to all appointees notifying them of their approval or disapproval.

PLANNING COMMITTEE

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

Four representatives of the solid waste management industry:
1. Bob Campeau, Waste Management Inc.
2. Steven Graffenius, Best Way Disposal
3. Mike Matheny, Clarks Auto Parts (metal recycler)
4. Eric Stoub, Reliable Disposal

One representative from an industrial waste generator:
1. Vacant- formerly Ron Kramer, Welches (resigned due to job transfer)

Two representative from environmental interest groups from organizations that are active within the County
1. Aniceto Martinez, Master Gardener
2. Ed Hokanson, Lake Association

One representative from County government: (all government representatives shall be elected officials or designee of an elected official)
1. Tom Tanczos, County Commissioner

One representative from township government:
1. Charles Cubbage, Paw Paw Township

One representative from city government:
1. Yemi Aikenwale, City of Hartford

One Representative from the regional solid waste planning agency:
1. Marcy Hamilton, Southwestern Michigan Commission

Three representatives from the general public who reside in the county:
1. Lisa Phillips
2. Dave Andrews
3. Don Moore

PROPOSED SCHEDULE FOR SOLID WASTE PLAN REVIEW AND APPROVAL

October 25, 1999- Solid Waste Planning Committee approves public release of completed plan draft.

November 5, 1999-Ninety day public comment period begins

November 8, 1999- Publish first notices on availability of plan for review and date of public hearing.

November 9, 1999- Make presentation to the County Board of Commissioners

November 15, 1999- Second notices published

December 7,1999- Public hearing held. Comments considered in developing possible revisions.

February 1, 2000- Public Comment period ends

February 16, 2000- Solid Waste Planning committee meets to discuss any changes and approves plan. Committee also recommends formal action be taken by the Board of Commissioners.

March 7 , 2000- Formal action taken by Board of Commissioners

June 2000- Once 67% of the County's municipalities have passed and returned resolutions, the locally approved plan is sent to MDEQ for final approval.

APPENDIX D

Plan Implementation Strategy

The selected solid waste management system for Van Buren County is a perpetuation of the current system with the incorporation of certain enhancements.. It is anticipated that operation of the planned system will continue in much the same manner and framework as it does today. Enhancements will take place throughout the planning period as a result of on-going public education and information programs.

Solid Waste Disposal Facility Location Maps

The following pages are maps and/or legal descriptions that identify the locations of the various solid waste disposal facilities proposed to serve Van Buren County during the planning period.

Special Conditions

Any special conditions affecting the export of waste from Van Buren County are listed in communications and documented after the maps and/or legal descriprions.

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Waste Management℠

Grand Rapids Customer Service Center
1668 Porter Street, S.W.
Grand Rapids, Michigan 49509-1796

Phone 616.538.3750

May 1, 1998

Ms. Julie Pioch
MSU Cooperative Extension Service - Van Buren
801 Hazen Street, Suite A
Paw Paw, MI 49079

Re: Waste Management Landfills in Michigan

Dear Solid Waste Planning Committee Members:

Waste Management of Michigan, Inc. owns and operates eight (8) licensed solid waste landfills located throughout the lower peninsula of Michigan. All of these landfills are allowed to receive waste from many counties and a few from all counties in the lower peninsula. Attached please find the following information:

1. MDEQ standard format information sheets for each of our landfills.

2. A map showing the location of our landfills.

3. A listing for each landfill showing which counties may import waste to the site.

The list of counties for each site is based upon existing county plans or our existing host agreements with counties which provide for the county to add these counties during the current plan updates. In most cases there is no requirement to have signed inter-county agreements. However, for those counties that do require inter-county agreements, we have indicated that on the sheet. We are encouraging all counties to have their plans as open as possible with regards to inter-county transfers and to not require signed agreements between the counties. In some cases, we are requesting our host counties to add additional counties, during the update process, which are not covered under a host agreement. These are also indicated on the attached sheets.

As you update your plan, please add as many of our landfills, as you wish, to your plan and notify out host counties of your intentions and request that they also include you in their plans.

Printed on recycled paper

If you have any questions, need additional information, or wish to add your county as an exporting county to one of our landfills, please call me at (616) 538-1921 ext. 151.

Sincerely,

WASTE MANAGEMENT OF MICHIGAN, INC.

Jeff Poole

Jeff Poole
Manager, Business Development

File: Van Buren County, 616/657-7745

November 9, 1998

Ms. Julie Pioch
MSU Cooperative Extension Service
801 Hazen Street
Paw Paw, MI 49079

RE: Your County Solid Waste Plan Update - Explicitly Authorized Solid Waste Exports

Dear Ms. Pioch:

Previously, BFI sent you a letter requesting inclusion in your Solid Waste Plan Update of our landfill facilities, 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). At this time we would like to request that your Solid Waste Planning Committee also include BFI's Cork Street Transfer Station located in the city of Kalamazoo in Kalamazoo County in your Plan Update. This will be important should your county wish, at some point in the future, to export waste to this facility for transfer to our C&C landfill or Arbor Hills Landfill facilities.

BFI would be pleased to help your county to provide for its long term disposal needs. We look 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

Arbor Hills Landfill · 10690 W. Six Mile Rd. · Northville, Michigan 48167
Phone 248-349-7230 · Fax 248-349-7572
www.bfi.com

30% Post-Consumer

VENICE PARK RECYCLING & DISPOSAL FACILITY
A WASTE MANAGEMENT COMPANY

9536 East Lennon Road
Lennon, MI 48449
(810) 621-9080
(810) 621-3156 Fax

September 20, 1999

Julie Pioch – Solid Waste Coordinator
M.S.U. Extention Office
801 Hazen St.
Suite A
PawPaw, Mi. 49079

Dear Ms. Pioch,

Please consider including the following Waste Management Landfills when updating the VanBuren County Solid Waste Plan.

1) Autumn Hills Recycling & Disposal Facility – Ottowa County
2) City Environmental Services Landfill, Inc of Hastings – Barry County
3) Westside Landfill R.D.F. – St Joseph County

Each of the above referenced solid waste disposal sites host county solid waste management plan updates include VanBuren county for export of waste generated in VanBuren County to their respective facility.

I have included facility description for each Type II waste disposal facility and Westside's Type III Landfill. If you have questions regarding this communication or if I can be of assistance, please feel free to call me at 616-945-2260.

Sincerely,

Steven Essling

• Demolition Engineers
• Asbestos Abatement
• Salvaged Building Materials
• Excavating and Underground Services
• Concrete Recycling

• Landfill Operation
• Dumpster Service
• Commercial & Residential Waste Services
• Land Developement

Pitsch Companies
SANITARY DIVISION

September 11, 1998

Van Buren
Julie Pioch
MSU Cooperative Extension Service - Van Buren
801 Hazen Street, Suite A
Paw Paw, MI. 49079

Dear Julie Pioch:

Pitsch Sanitary Landfill would like to be named in your Solid Waste Management Plan as a receiving landfill. The following attachment is the facilty description for the Pitsch Sanitary Landfill located in Belding, Michigan, County of Ionia.

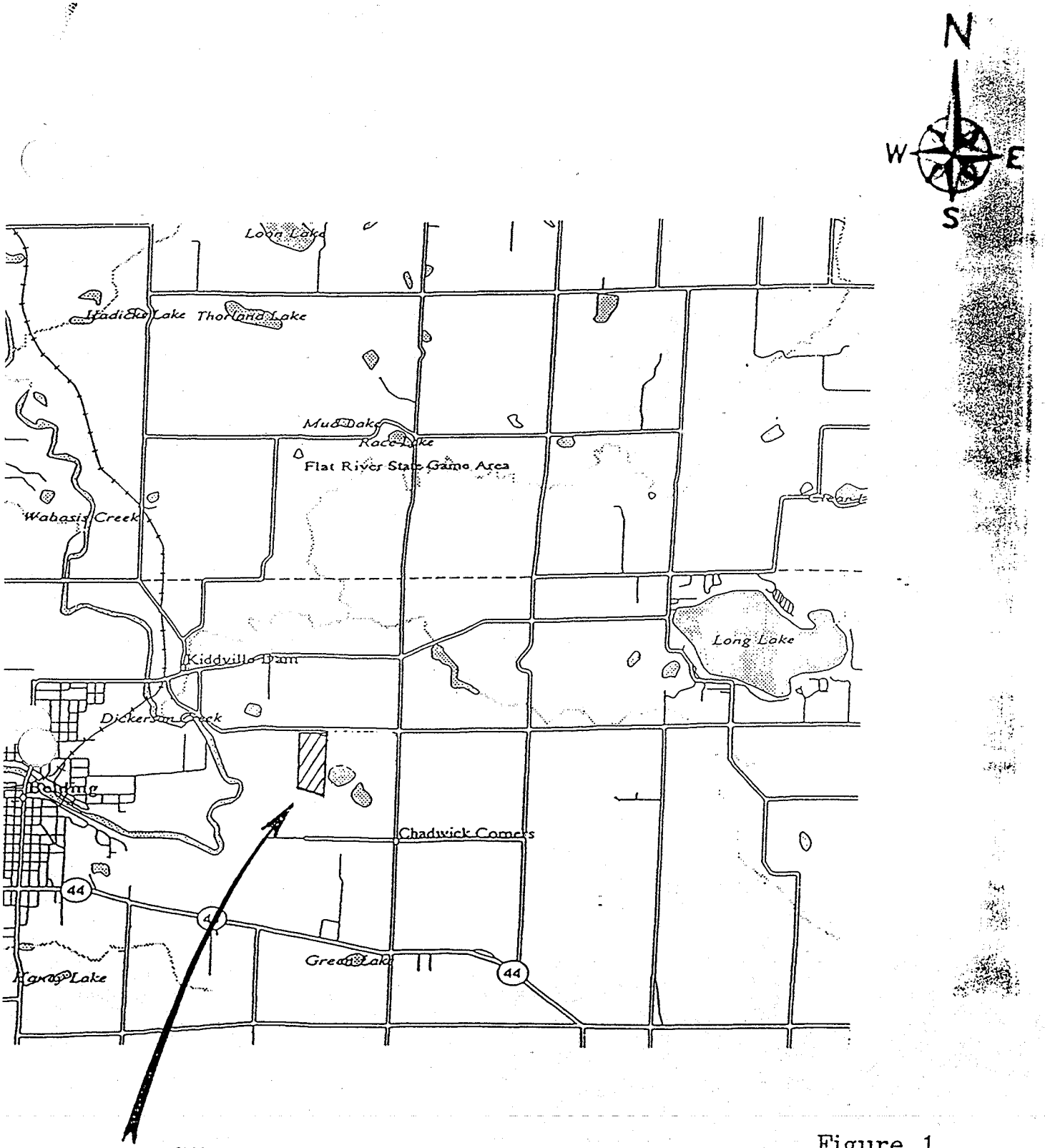
If you have any questions please call me at 616-794-3050 or fax me at 616-794-1769.

Sincerly;

Douglas A. Carson
Director of Communications

Enc. 5

7905 Johnson Rd., Belding, Michigan 48809
Telephone: 1-800-748-2448 FAX: (616) 794-1769



anitary Landfill

Figure 1

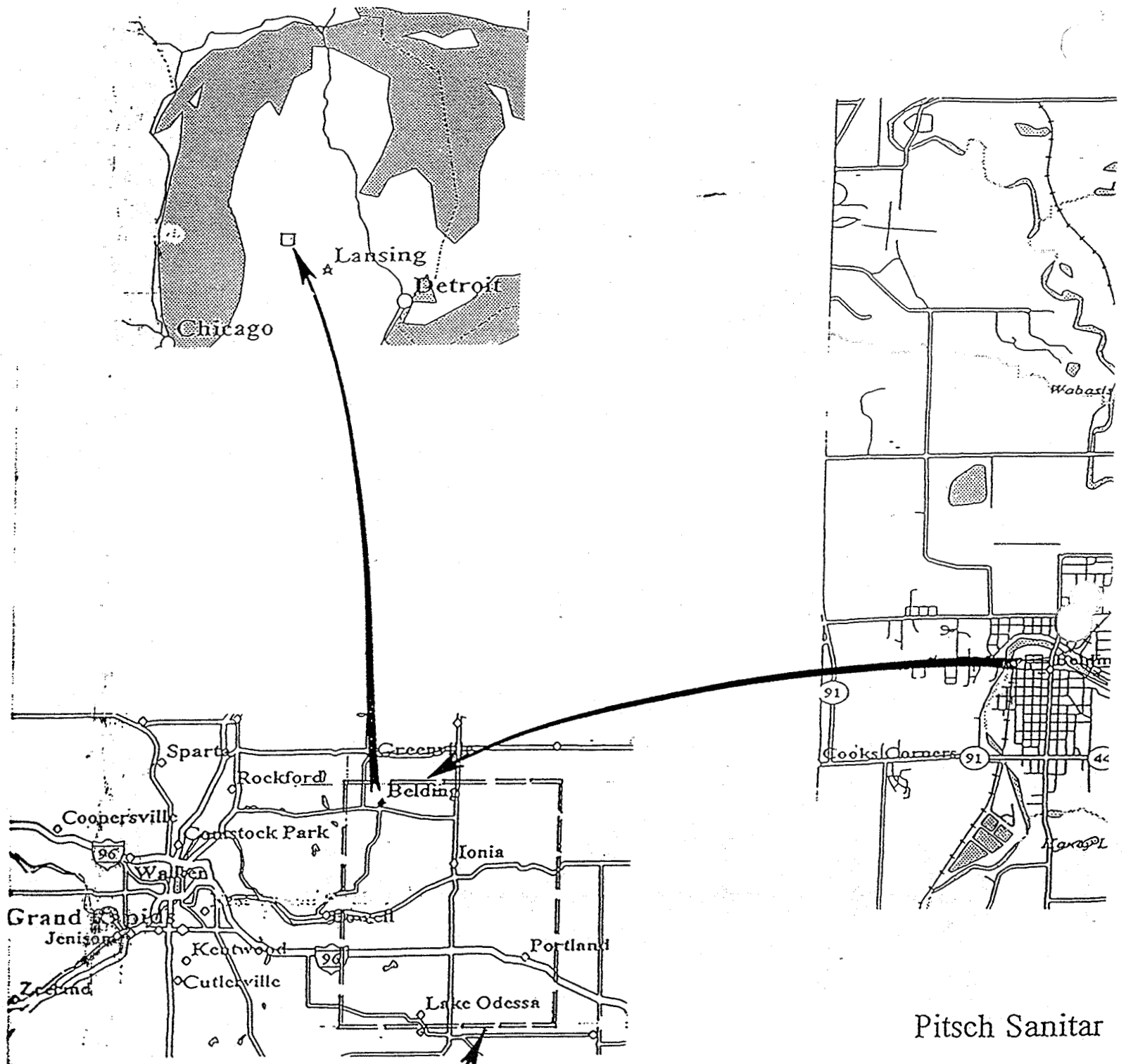
Regional Location Map

Pitsch Sanitary Landfill

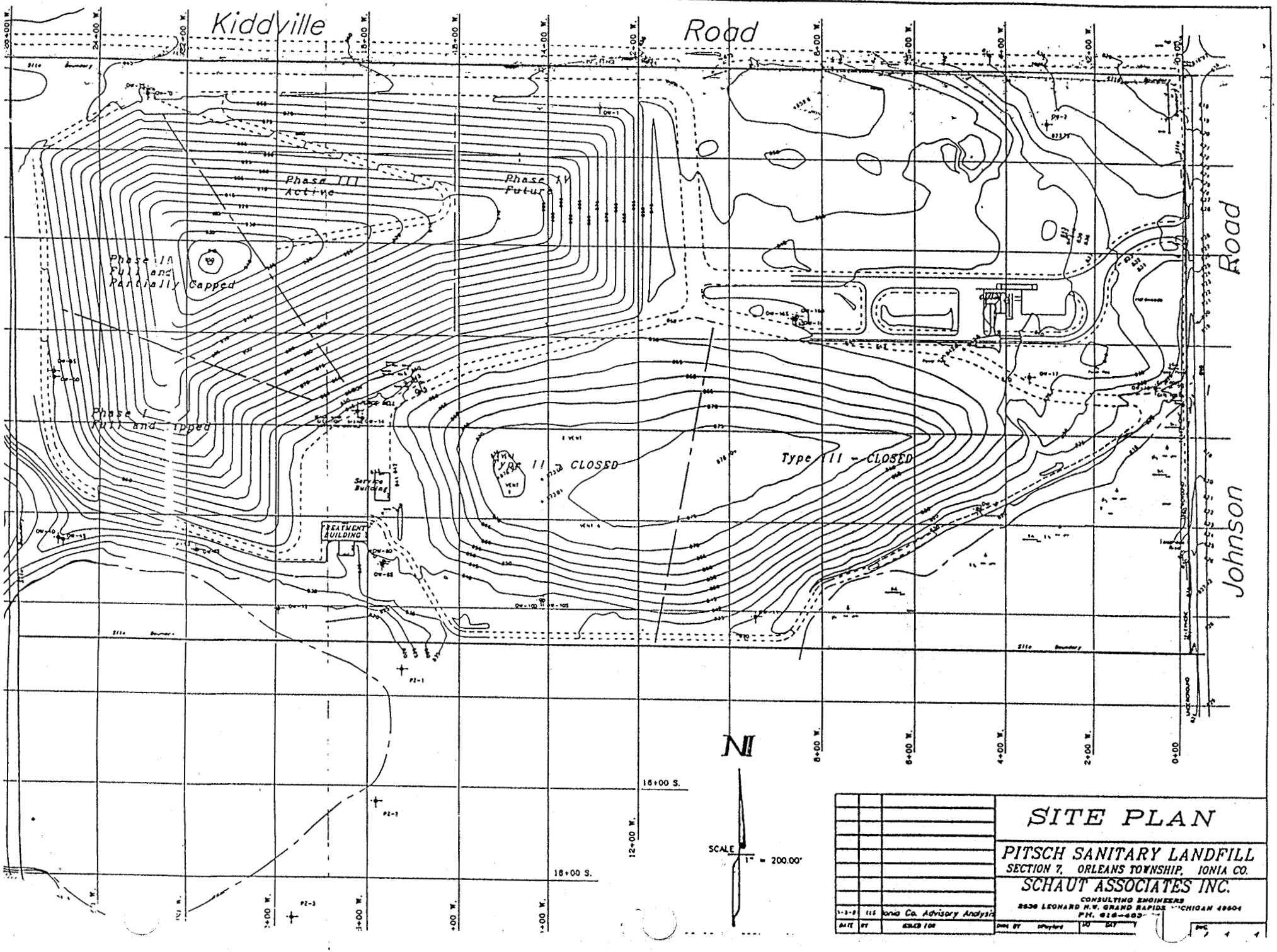
Kiddville Road
Ionia County
Belding, Michigan

Aqua-Tech Consultants, Inc.

1336 Scribner NW
Grand Rapids, MI 49504

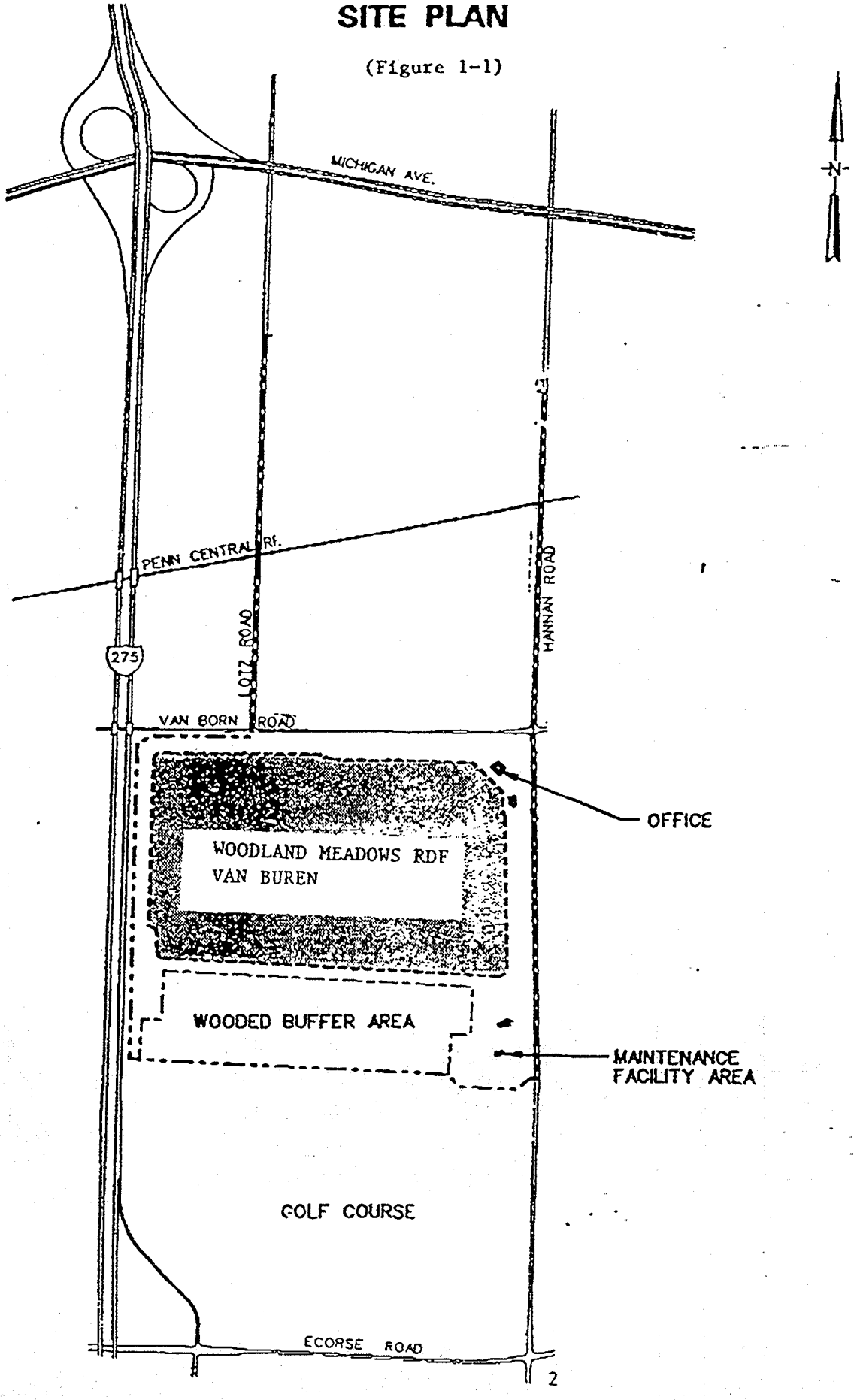


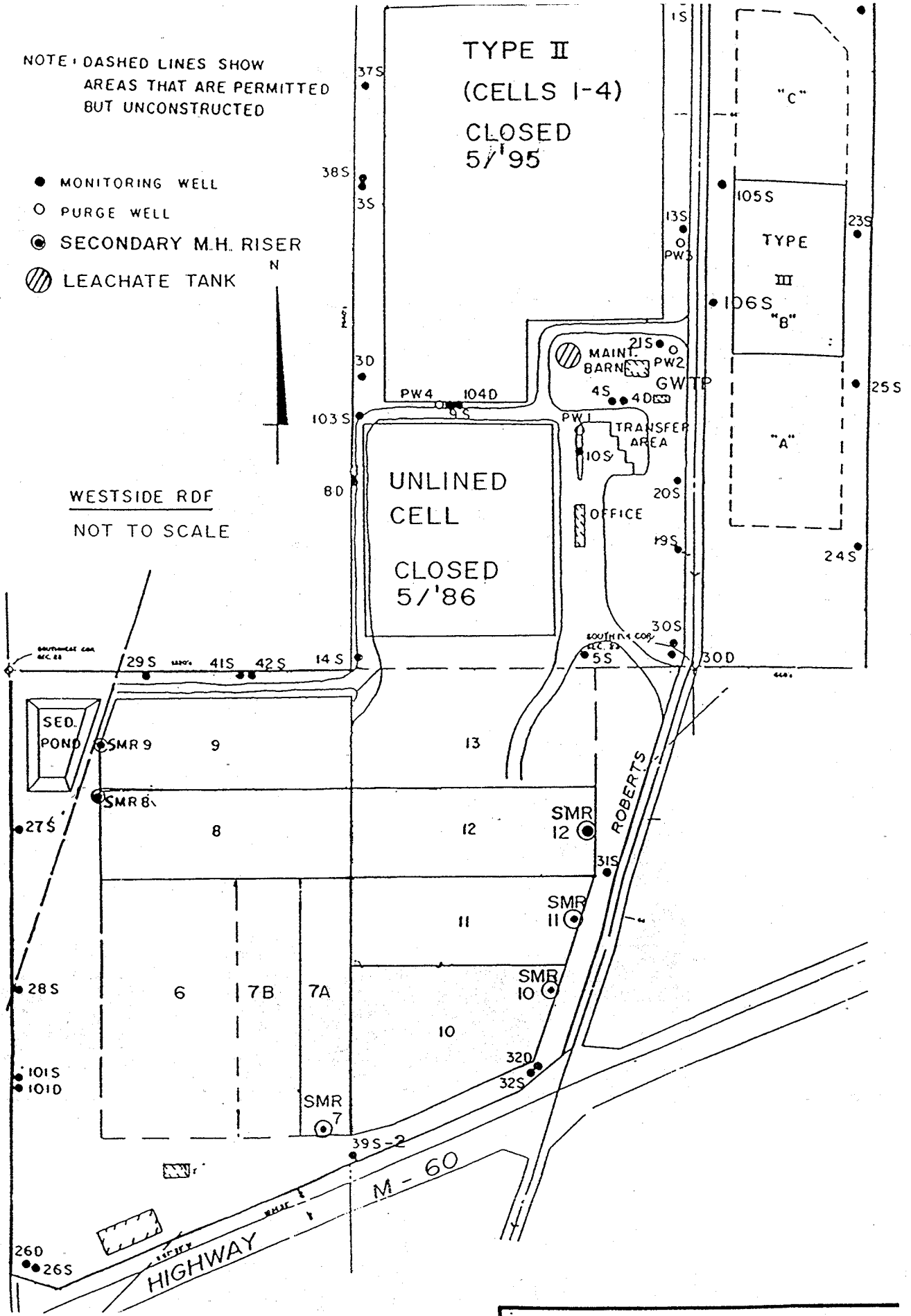
Job# 1594B	Drawn By GAS	Date Aug 30, 1995	


Kiddville Road
Johnson Road
Phase III Active
Phase IV Future
Phase IIA Full and Partially Capped
Phase I Full and Capped
Type II CLOSED
Type III - CLOSED
Service Building
TREATMENT BUILDING
Site Boundary
16+00 S.
18+00 S.
24+00 W.
22+00 W.
18+00 W.
16+00 W.
14+00 W.
12+00 W.
8+00 W.
6+00 W.
4+00 W.
2+00 W.
0+00
N
SCALE 1" = 200.00'
SITE PLAN
PITSCH SANITARY LANDFILL
SECTION 7, ORLEANS TOWNSHIP, IONIA CO.
SCHAUT ASSOCIATES INC.
CONSULTING ENGINEERS
2630 LEONARD N.W. GRAND RAPIDS, MICHIGAN 49504
PH. 616-453-
Ionia Co. Advisory Analysis
DATE BY SCALE FOR
DWN BY
DATE

WOODLAND MEADOWS RDF
SITE PLAN

(Figure 1-1)

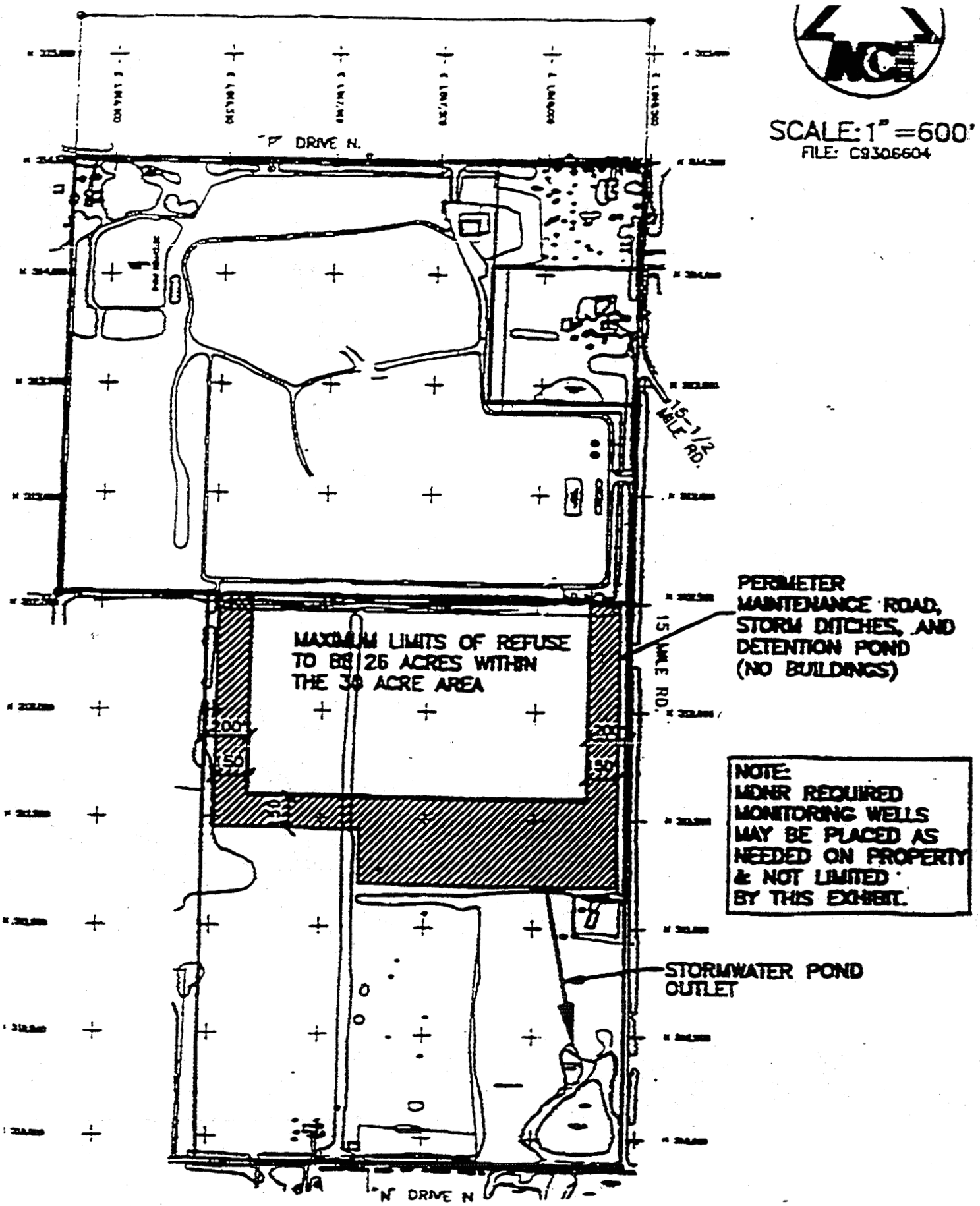




WESTSIDE RDF

C&C Landfill

THE 26 ACRE (LIMITS OF REFUSE) LANDFILL EXPANSION NOT TO EXCEED SKETCH



PHONE: 616-983-1531

Wightman and Associates, Inc.

CONSULTING ENGINEERS & SURVEYORS
920 BROAD ST. – P.O. BOX D
ST. JOSEPH, MICHIGAN 49085

R. RUSHLOW P.E. R.L.S.
DENEAU P.E.
LINDBLOM II ARCH.
L.M. VESEI P.E.
J.G. KAMER R.L.S.

FOREST LAWN LANDFILL

PROPERTY DESCRIPTION

SEPTEMBER 30, 1983

THAT PART OF THE SOUTHEAST QUARTER OF SECTION 17, TOWNSHIP 8 SOUTH, RANGE 20 WEST, THREE OAKS TOWNSHIP, BERRIEN COUNTY, MICHIGAN, DESCRIBED AS: COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 17; THENCE NORTH ON THE EAST LINE OF SAID SECTION 17, A DISTANCE OF 988.30 FEET; THENCE SOUTH 89° 31' 04" WEST 33.00 FEET TO THE TRUE PLACE OF BEGINNING OF THE LAND HEREIN DESCRIBED; THENCE SOUTH 89° 31' 04" WEST 1291.37 FEET; THENCE SOUTH 0° 04' 40" WEST 329.24 FEET; THENCE SOUTH 62° 04' 46" WEST 142.73 FEET; THENCE NORTH 2° 04' 46" EAST 725.49 FEET; THENCE SOUTH 79° 46' 46" WEST 823.59 FEET; THENCE NORTH 48° 49' 37" WEST 251.19 FEET; THENCE NORTH 0° 52' 41" WEST 939.15 FEET; THENCE SOUTH 81° 44' 07" EAST 1331.19 FEET; THENCE SOUTH 82° 36' 03" EAST 1097.33 FEET; THENCE SOUTH 943.67 FEET TO THE PLACE OF BEGINNING. CONTAINING 56.33 ACRES MORE OR LESS.

JOHN G. KAMER R.L.S. 27449

LEGAL DESCRIPTIONS FOR ORCHARD HILL LANDFILL

OVERALL PARCEL DESCRIPTION

MARCH 25, 1992

A parcel of land that is part of Sections 28 and 33 in Town 3 South, Range 17 West, Coloma and Watervliet Townships Berrien County, Michigan described as:

Beginning at the Section Corner common to Sections 27, 28, 33 and 34 in Town 3 South, Range 17 West, Berrien County, Michigan; thence N00°38'14"W 1847.34 feet along the East Line of Section 28 to the South Right-of-Way Line of Interstate Highway I-94; thence S85°33'19"W 2627.72 feet along said south line to the North and South 1/4 Line of said section; thence S00°48'21"E 1848.03 feet along said line to the 1/4 Corner common to aforementioned sections 28 and 33; thence N89°54'23"E 883.00 feet along the section line common to said sections; thence S00°18'30"W 1063.98 feet; thence parallel with the north line of Section 33 N89°54'23"E 881.78 feet to the West Line of the Northeast 1/4 of the Northeast 1/4 of said section; thence S00°35'47"E 238.53 feet along said west line to the South Line of the Northeast 1/4 of the Northeast 1/4 of said section; thence S89°53'19"E 1309.89 feet along said south line to the East Line of Section 33; thence N00°39'04"W 1307.23 feet along said east line to the Section Corner common to Sections 27, 28, 33 and 34 and the Point of Beginning. Containing 160.28 acres more or less and excepting all easements and restrictions of record, if any.

DESCRIPTION
PARCEL "A"

MAY 12, 1993

A parcel of land that is part of Sections 28 in Town 3 South, Range 17 West, Watervliet Township, Berrien County, Michigan described as:

Commencing at the Southeast corner of Section 28, Town 3 South, Range 17 West, Berrien County, Michigan; thence N00°38'14"W 1847.34 feet along the East Line of section 28; thence S85°33'19"W 70.15 feet along the South Right-of-Way of Interstate 94 to the Point of Beginning; thence S00°38'14"E 219.17 feet; thence N89°21'46"E 20.00 feet; thence S00°38'14"E 380.00 feet; thence N89°21'46"E 17.00 feet; thence S00°38'17"E 461.62 feet; thence S89°44'27"W 287.97 feet; thence S87°25'18"W 131.84 feet; thence S02°34'09"W 129.91 feet; thence S00°21'50"E 136.19 feet; thence S02°00'18"W 231.91' feet; thence N89°26'22"W 545.18 feet; thence N89°44'56"W 268.14 feet; thence N00°38'14"W 1464.54 feet; thence N85°33'19"E 1217.16 feet along the South Right-of-Way of Interstate 94 to the Point of Beginning. Containing 38.5 acres more or less and subject to all easements and restrictions, if any.

DESCRIPTION
PARCEL "B"

APRIL 8, 1992

A parcel of land that is part of Sections 28 and 33 in Town 3 South, Range 17 West, Coloma and Watervliet Townships, Berrien County, Michigan described as:

Commencing at the Northeast corner of Section 33, Town 3 South, Range 17 West, Berrien County, Michigan; thence S89°54'23"W 133.00 feet along the North Line of said section to the Point of Beginning; thence S00°39'04"E 500.02 feet; thence S89°54'23"W 305.01 feet; thence N00°39'04"W 515.98 feet; thence S89°34'05"W 164.49 feet; thence S89°16'01"W 398.71 feet; thence N89°46'38"W 289.50 feet; thence N01°12'01"W 134.33 feet; thence N02°27'53"E 138.83 feet; thence S89°44'58"E 268.14 feet; thence S89°26'22"E 545.18 feet; thence N02°00'18"E 231.91 feet; thence N00°21'50"W 136.19 feet; thence N02°34'09"E 129.91 feet; thence N87°25'18"E 131.84 feet; thence N89°44'27"E 187.97 feet; thence S00°38'12"E 781.29 feet to the North Line of Section 33, Town 3 South, Range 17 West and the Point of Beginning. Containing 14.49 acres and subject to all easements and restrictions, if any.

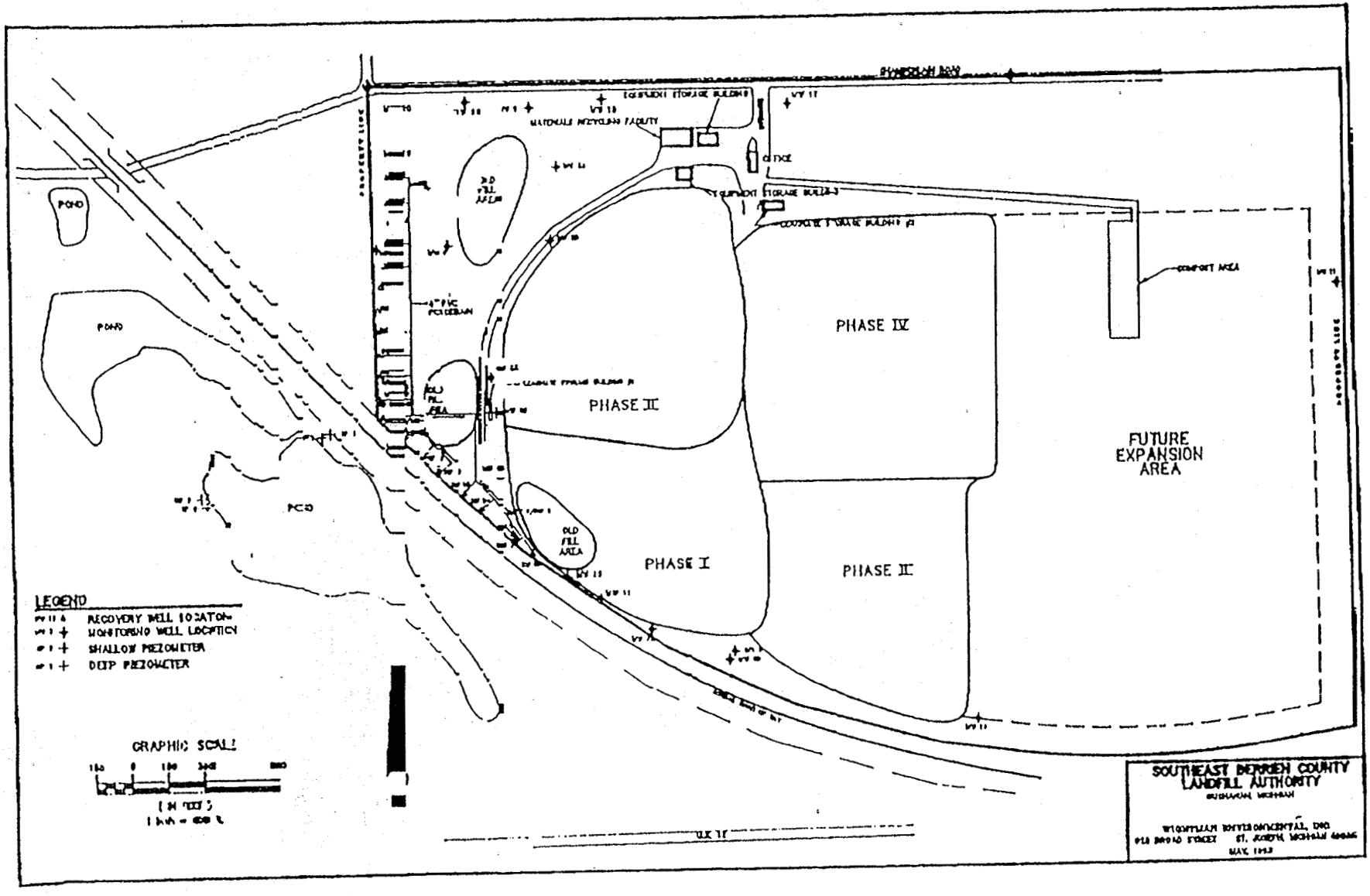
DESCRIPTION
PARCEL "C"

October 27, 1992

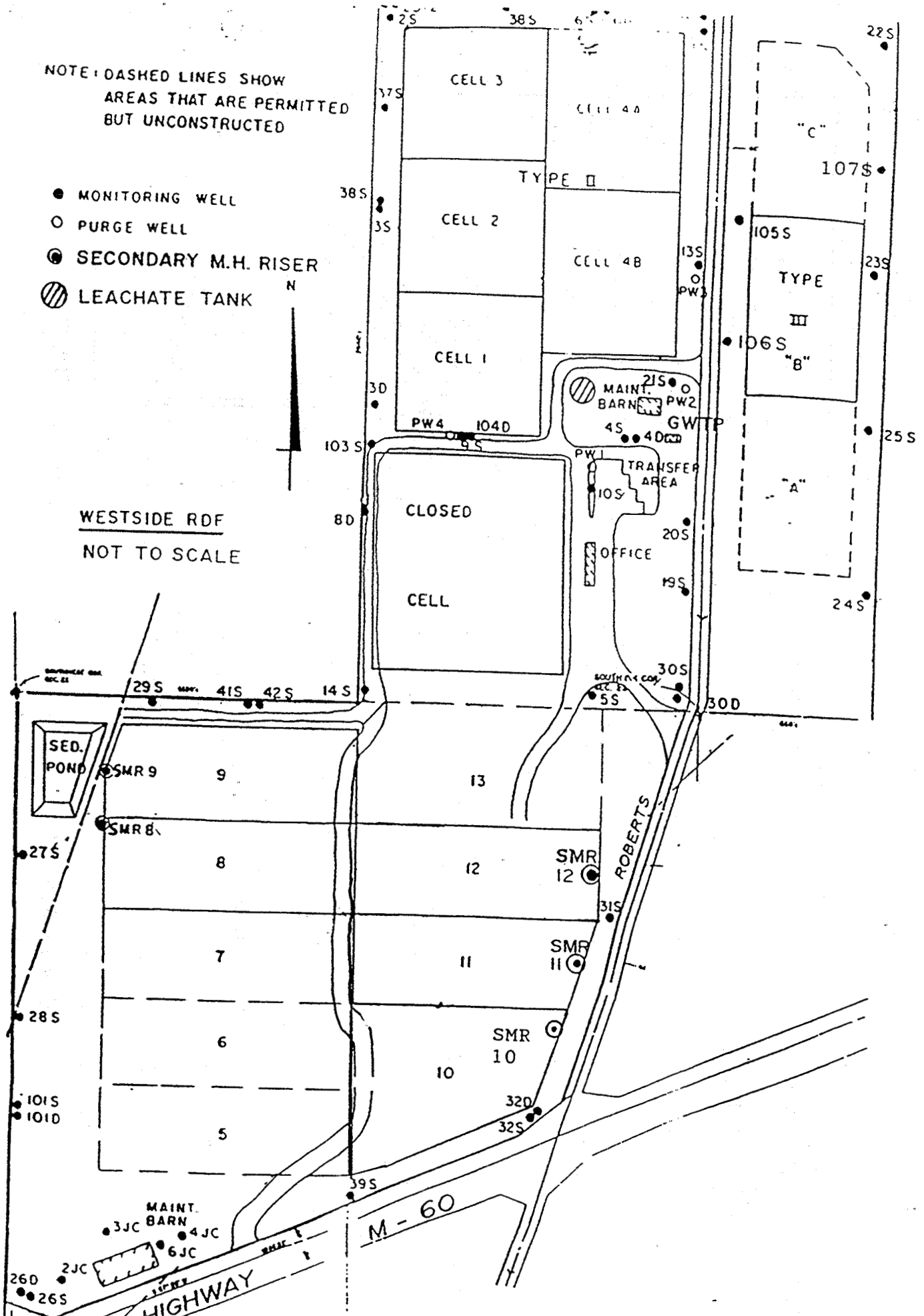
A parcel of land that is part of Sections 28 and 33 in Town 3 South, Range 17 West, in Coloma and Watervliet Townships Berrien County, Michigan described as:

Commencing at the Section Corner common to Sections 27, 28, 33 and 34 in Town 3 South, Range 17 West, Berrien County, Michigan; thence S00°39'04"E 500.03 feet along the east line of said Section 33 to the Point of Beginning; thence continuing along said line S00°39'04"E 807.20 feet to the South line of the NE 1/4 of the NE 1/4 of said section; thence N89°53'19"W 1309.89 feet along said line to the West line of the NE 1/4 of the NE 1/4 of said section; thence N00°35'47"W 238.53 feet along said line; thence S89°54'23"W 881.78 feet; thence N00°18'30"E 1063.98 feet to the section line common to aforementioned Sections 33 and 28; thence S89°54'23"W 663.00 feet along said section line to the 1/4 corner common between said sections; thence N00°48'21"W 1848.03 feet along the North/South 1/4 line of said Section 28 to the South Right-of-Way of Interstate 94; thence N85°33'19"E 1340.41 feet along said south line; thence S00°38'14"E 1464.54 feet; thence S02°27'53"W 138.83 feet ; thence S01°12'01"E 134.33 feet; thence S89°46'38"E 289.50 feet; thence N89°16'01"E 398.71 feet; thence N89°34'05"E 164.49 feet; thence S00°39'04"E 515.98 feet; thence N89°54'23"E 438.01 feet to the East line of said Section 33 and the Point of Beginning. Containing 102.43 acres more or less and subject to all easements and restrictions of record, if any.

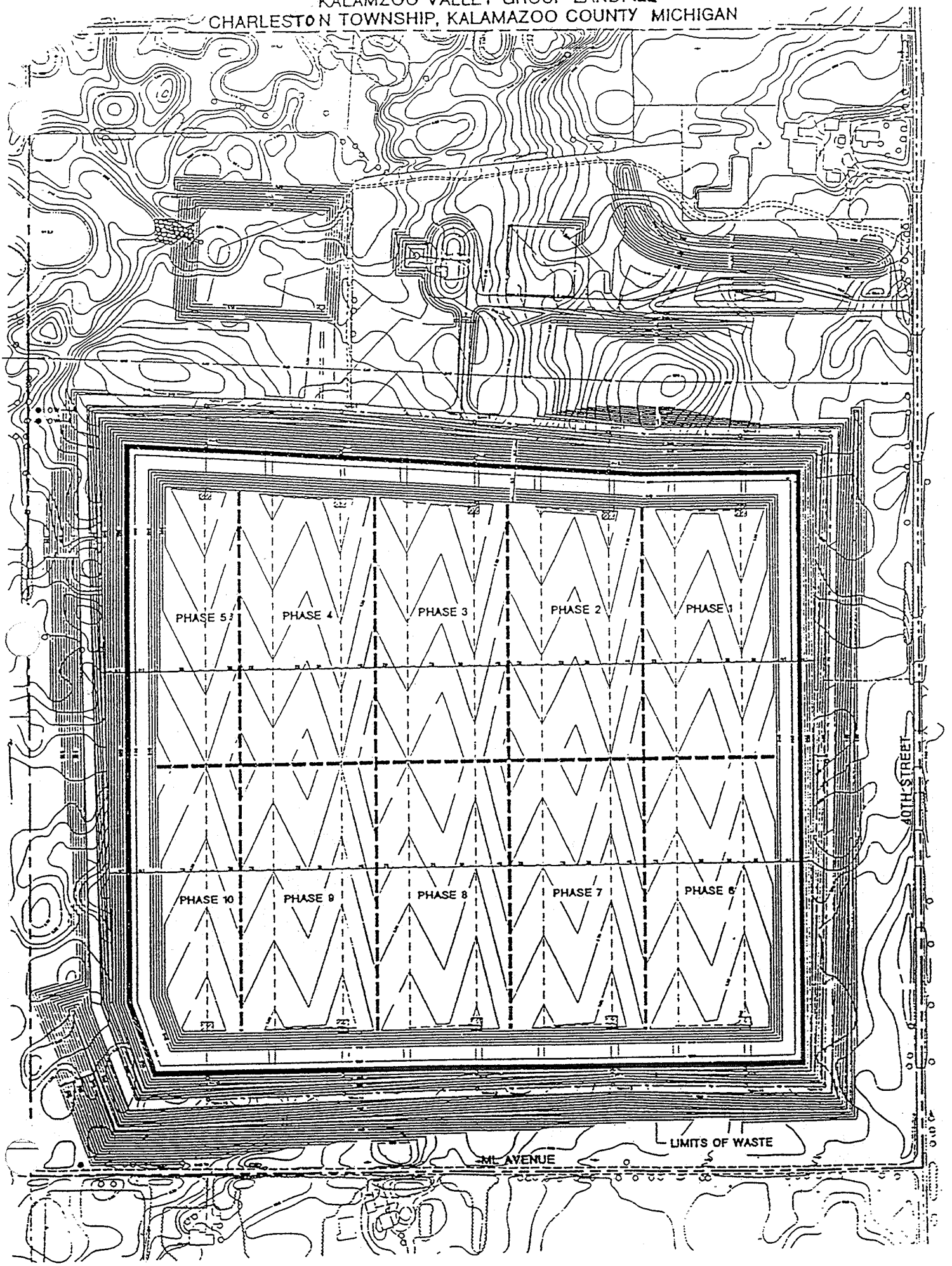
SOUTHEAST BERRIEN COUNTY LANDFILL AUTHORITY SITE PLAN



ATTACHMENT D-5



KALAMZOO VALLEY GROUP LANDFILL
CHARLESTON TOWNSHIP, KALAMAZOO COUNTY MICHIGAN



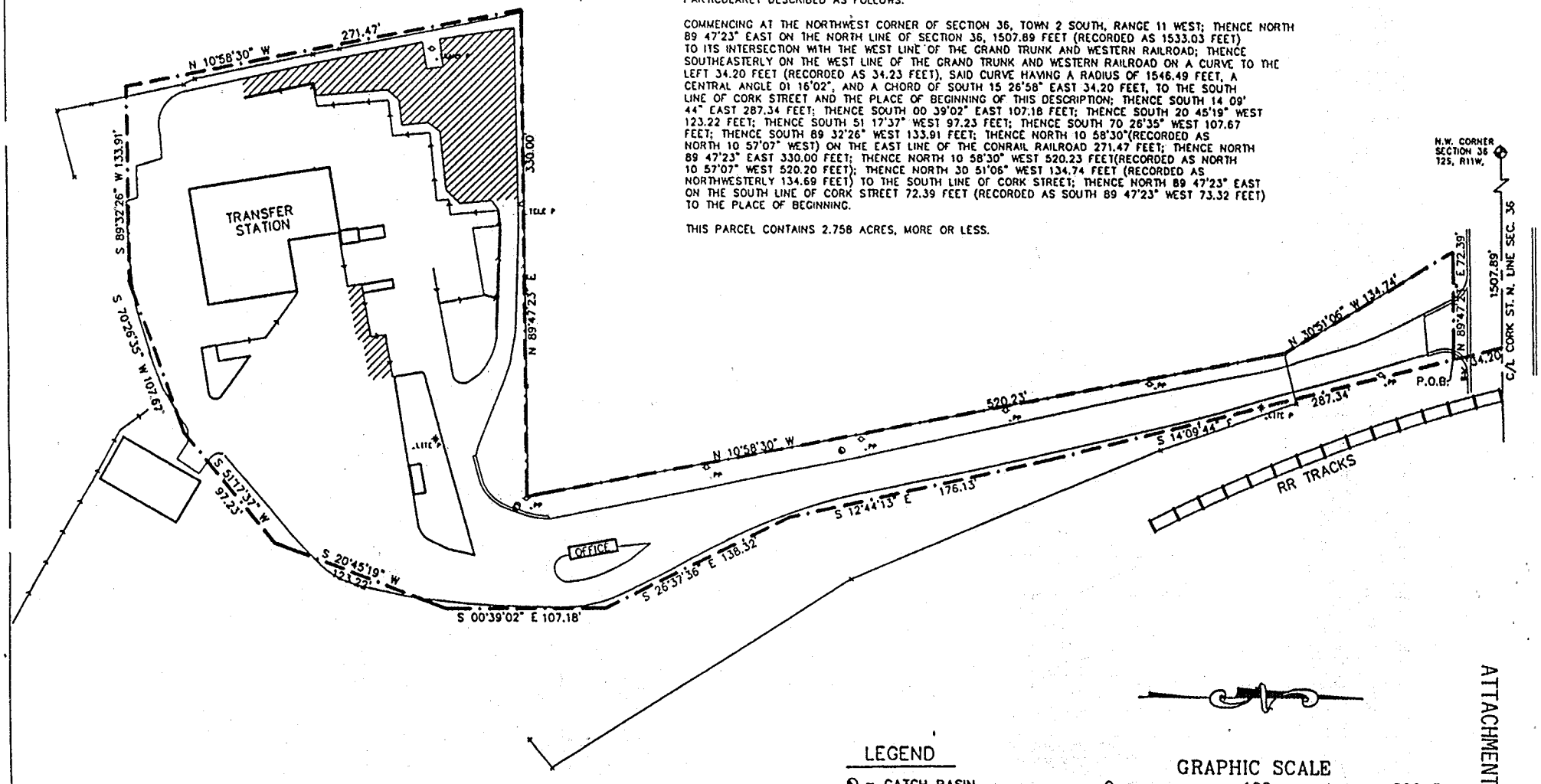
CORK STREET TRANSFER STATION

DESCRIPTION OF PROPERTY

A PARCEL OF LAND IN SECTION 36, TOWN 2 SOUTH, RANGE 11 WEST; BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHWEST CORNER OF SECTION 36, TOWN 2 SOUTH, RANGE 11 WEST; THENCE NORTH 89 47'23" EAST ON THE NORTH LINE OF SECTION 36, 1507.89 FEET (RECORDED AS 1533.03 FEET) TO ITS INTERSECTION WITH THE WEST LINE OF THE GRAND TRUNK AND WESTERN RAILROAD; THENCE SOUTHEASTERLY ON THE WEST LINE OF THE GRAND TRUNK AND WESTERN RAILROAD ON A CURVE TO THE LEFT 34.20 FEET (RECORDED AS 34.23 FEET), SAID CURVE HAVING A RADIUS OF 1546.49 FEET, A CENTRAL ANGLE 01 16'02", AND A CHORD OF SOUTH 15 26'58" EAST 34.20 FEET, TO THE SOUTH LINE OF CORK STREET AND THE PLACE OF BEGINNING OF THIS DESCRIPTION; THENCE SOUTH 14 09' 44" EAST 287.34 FEET; THENCE SOUTH 00 39'02" EAST 107.18 FEET; THENCE SOUTH 20 45'19" WEST 123.22 FEET; THENCE SOUTH 51 17'37" WEST 97.23 FEET; THENCE SOUTH 70 26'35" WEST 107.67 FEET; THENCE SOUTH 89 32'26" WEST 133.91 FEET; THENCE NORTH 10 58'30"(RECORDED AS NORTH 10 57'07" WEST) ON THE EAST LINE OF THE CONRAIL RAILROAD 271.47 FEET; THENCE NORTH 89 47'23" EAST 330.00 FEET; THENCE NORTH 10 58'30" WEST 520.23 FEET(RECORDED AS NORTH 10 57'07" WEST 520.20 FEET); THENCE NORTH 30 51'06" WEST 134.74 FEET (RECORDED AS NORTHWESTERLY 134.69 FEET) TO THE SOUTH LINE OF CORK STREET; THENCE NORTH 89 47'23" EAST ON THE SOUTH LINE OF CORK STREET 72.39 FEET (RECORDED AS SOUTH 89 47'23" WEST 73.32 FEET) TO THE PLACE OF BEGINNING.

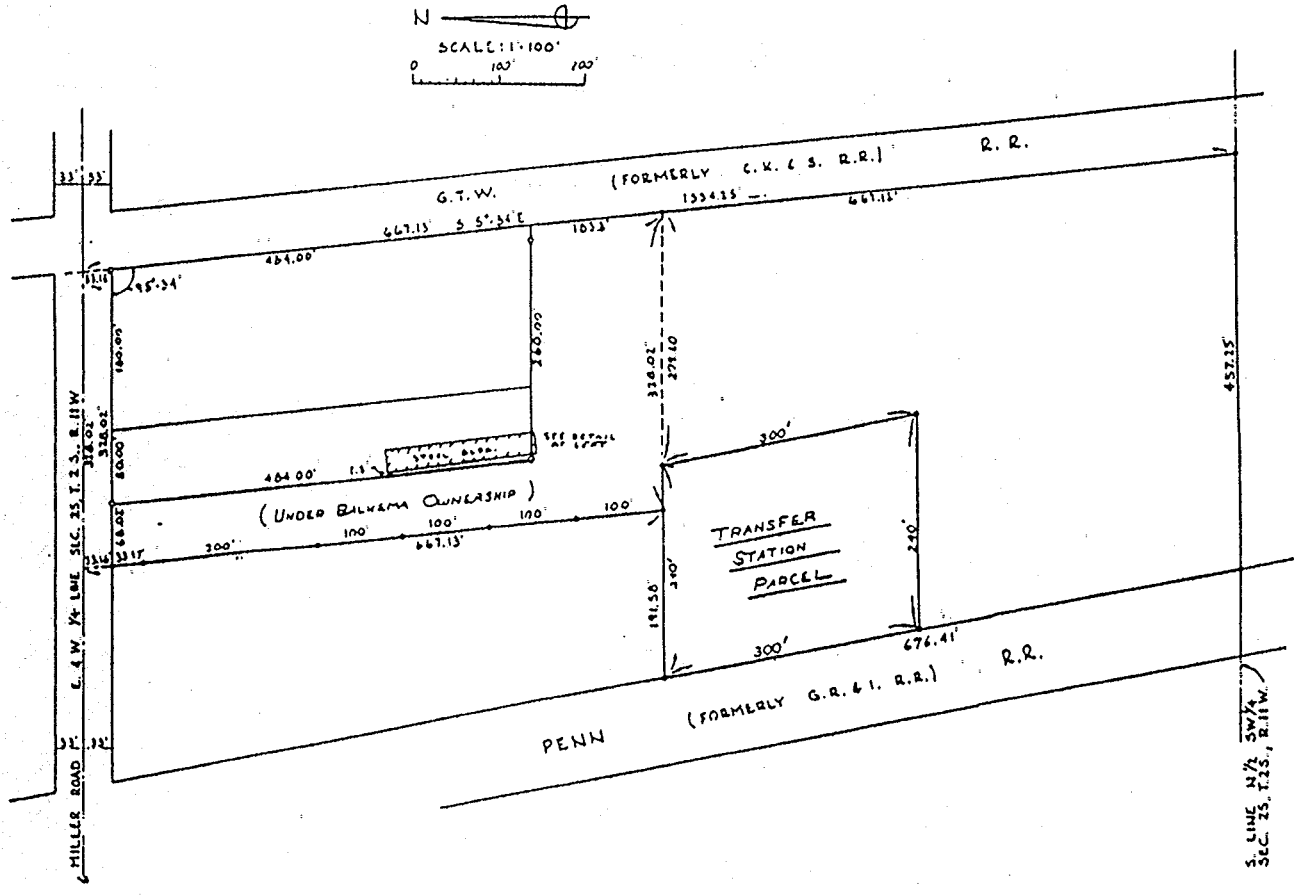
THIS PARCEL CONTAINS 2.758 ACRES, MORE OR LESS.



ATTACHMENT D-7

TRANSFER STATION PARCEL DESCRIPTION

Land located in the South half of the Northwest quarter of the Southwest quarter of Section 25, Town 2 South, Range 11 West more particularly described as follows: Commencing at the intersection of the East and West quarter line of Section 25 with the Westerly line of the Grand Trunk Western Railroad; thence South 3°-34" East along the Westerly line of said right-of-way, 667.13 feet to the South line of the North half of the Northwest quarter of the Southwest quarter of said Section 25; thence West along said South line, 279.60 feet to the place of beginning; thence South 3°-48' East parallel to the East line of the Conrail right-of-way, 300 feet; thence Westerly parallel to said South line, 240 feet; thence Northerly along the East line of the Conrail right-of-way, 300 feet to said South line; thence Easterly thereon 240 feet to the place of beginning; said description containing 1.65 acres, more or less, subject to all conditions, limitations, restrictions and easements of record.



SITE SURVEY

INFORMATION BASED ON SURVEY PREPARED BY WILKINS & WHEATON ENGINEERING CO.

REVISED TO SHOW ENCROACHMENT — ADD BAR SCALE 9/22/93 DWR

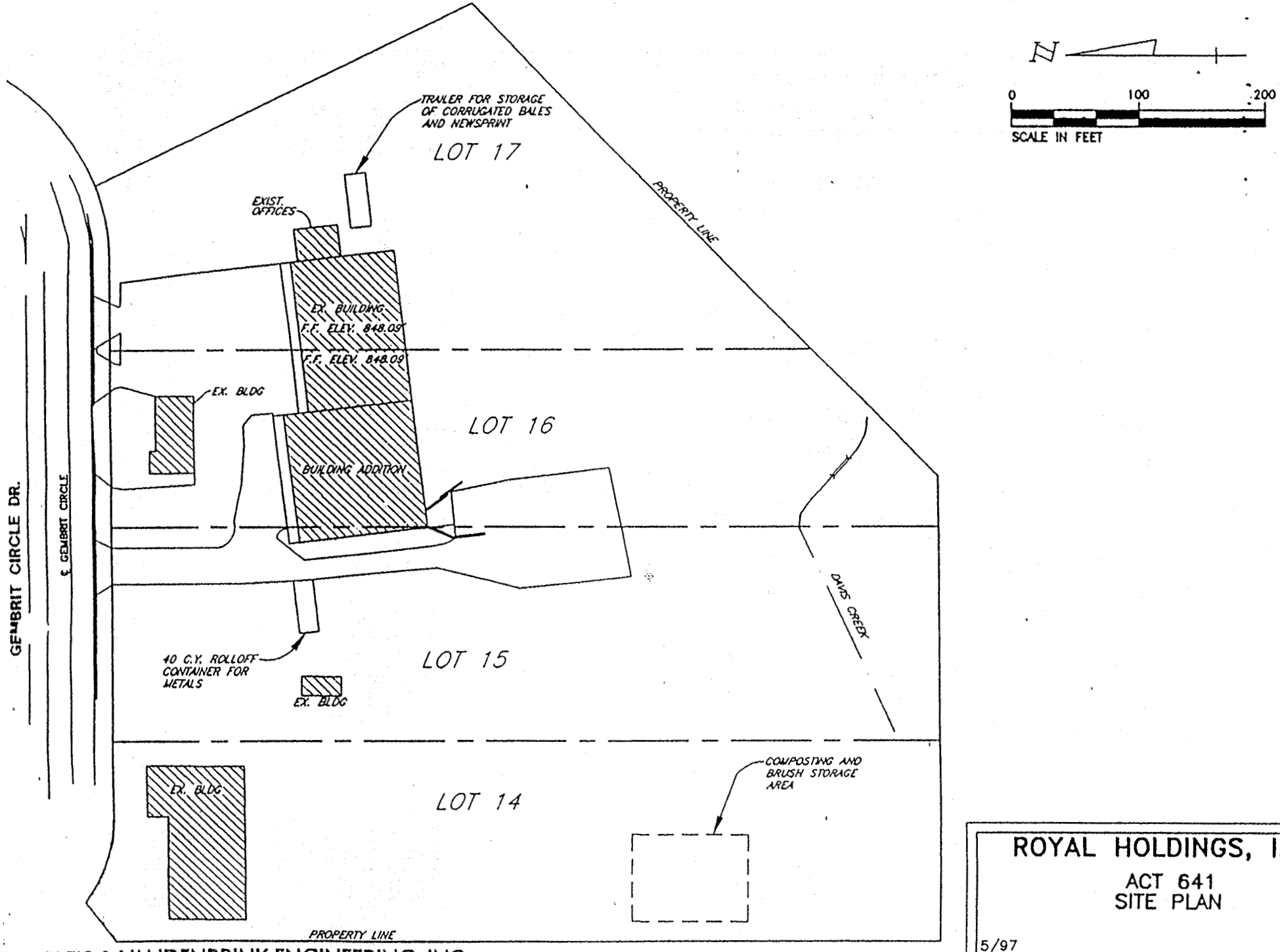
NOTE: IRONS AT ALL POINTS MARKED

ARCHITECTS
ENGINEERS
PLANNERS
SURVEYORS

GOVE ASSOCIATES, INC.
1601 Portage Street
Kalamazoo, Michigan
(616) 385-0011

SCALE: 1"=100'-0"	DATE	MILLER ROAD TRANSFER STATION CITY OF KALAMAZOO KALAMAZOO CO., MICHIGAN	SHEET 5 OF 5
DRAWN BY: GARY G.	3/31/83		PROJECT NUMBER
CHECKED BY: BILL O.	3/31/83		B-9618-1
APPROVED BY: RMA	1/21/13	PARCEL DESCRIPTION	

© COPYRIGHT 1983 GOVE ASSOCIATES, INC.



ELEIS & VANDENBRINK ENGINEERING, INC.

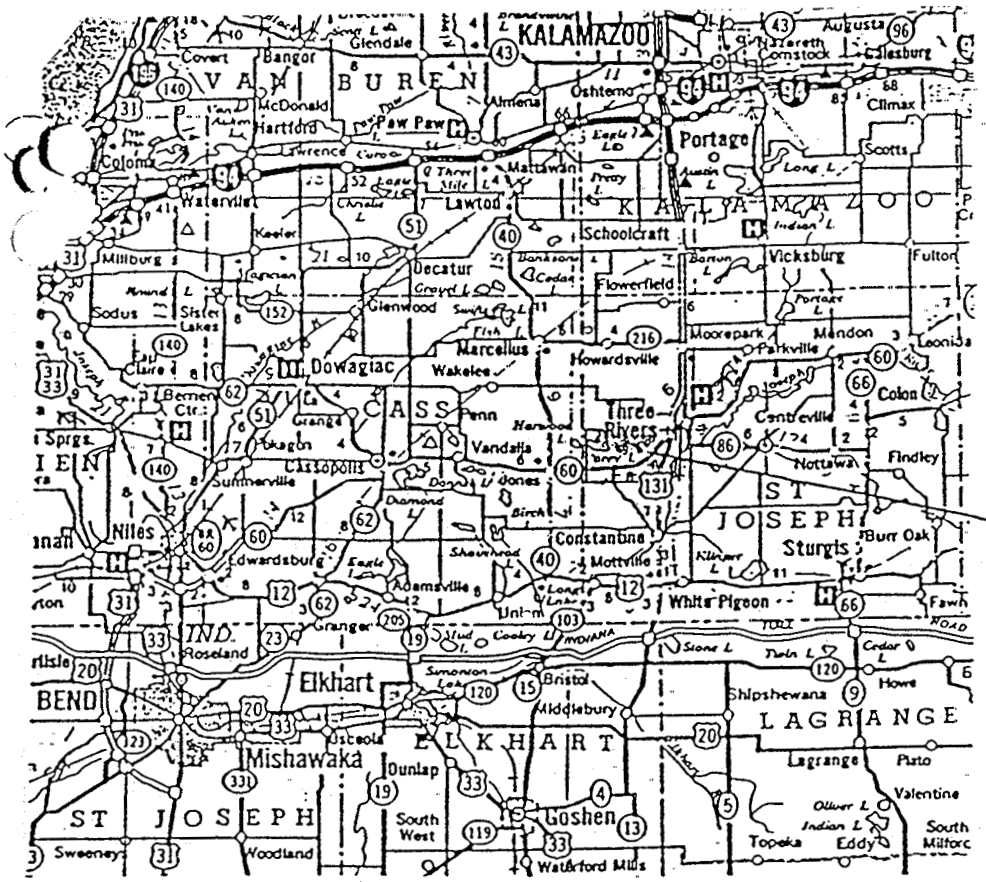
ROYAL HOLDINGS, INC.

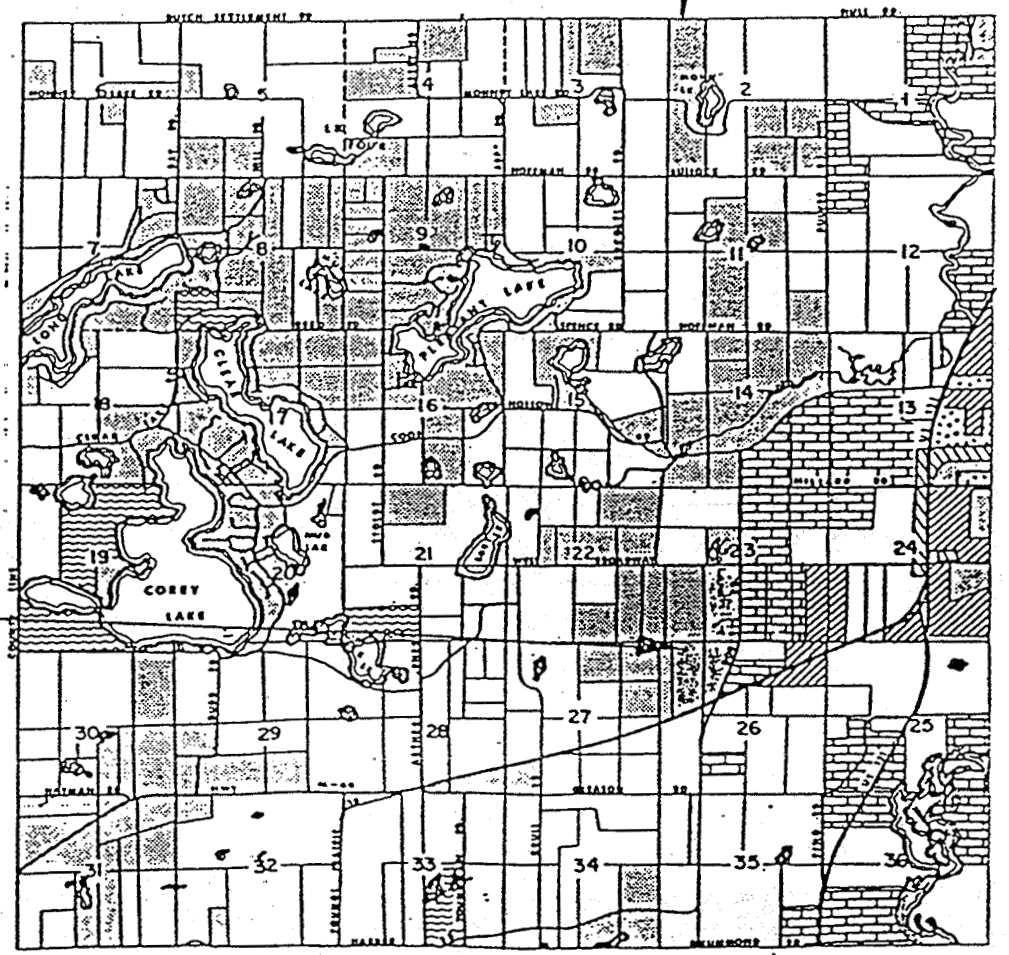
ACT 641
SITE PLAN

5/97

3052M.

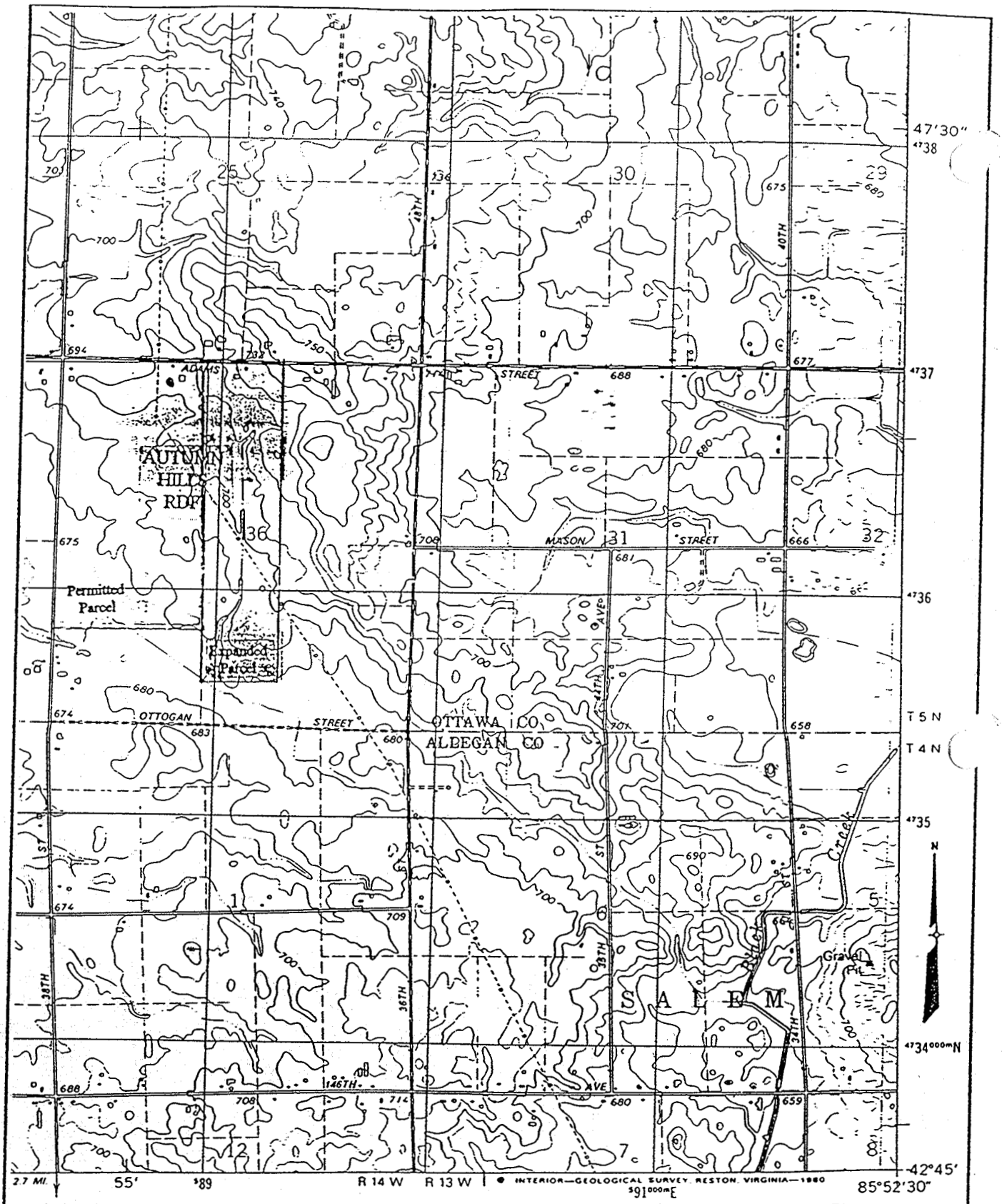
ATTACHMENT D-9





WESTSIDE LANDFILL

FIGURE 1



LEGEND

- SITE

MAP SOURCE: PART OF U.S.G.S. HUDSONVILLE WEST QUADRANGLE MAP

0' .5' 1'

SCALE: 1"=2000'

RUST ENVIRONMENT & INFRASTRUCTURE

PROJECT: AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY

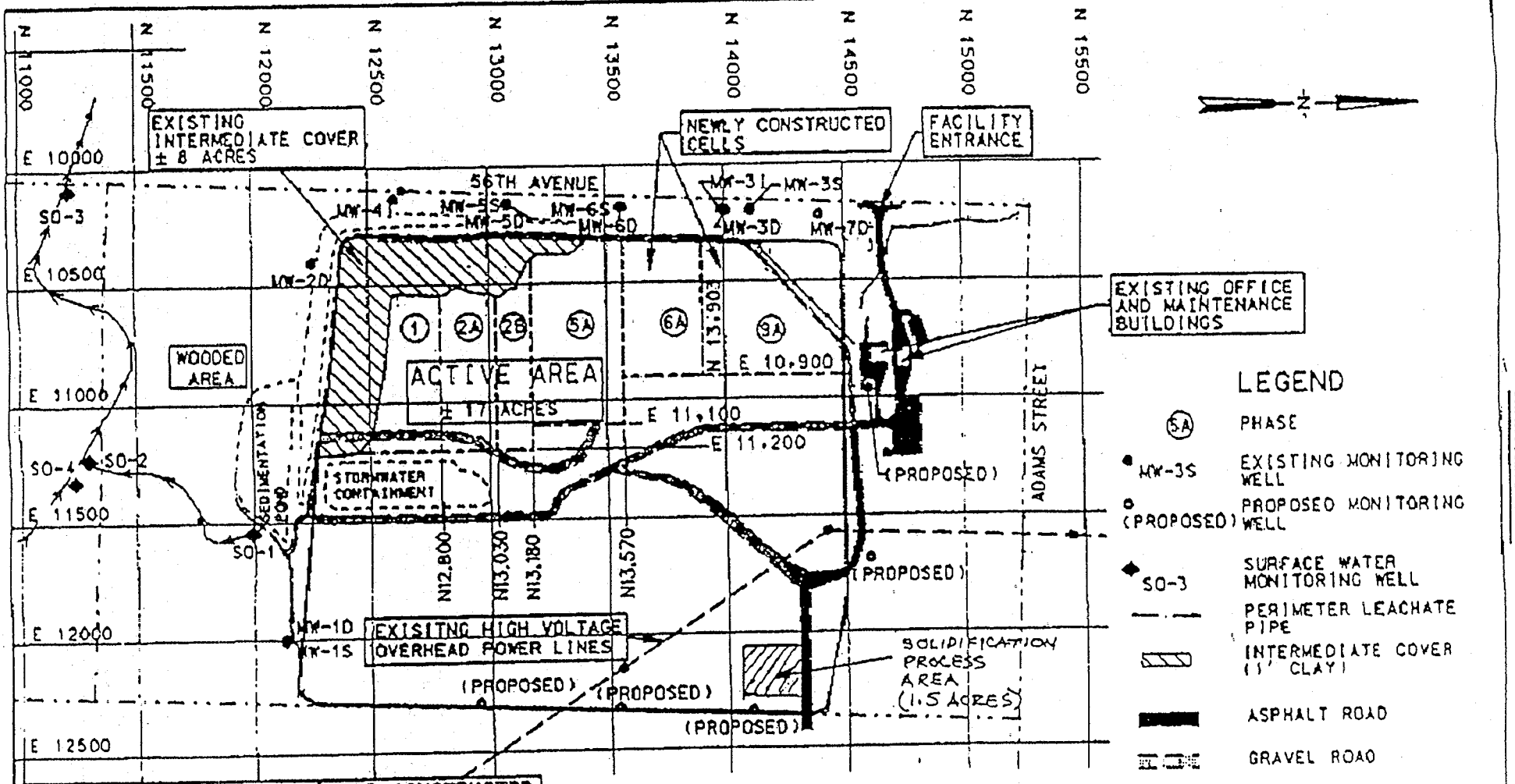
PROJECT NO.: 74525.100

FIGURE 2 - 2

ENVIRONMENTAL ASSESSMENT REPORT
PERMIT MODIFICATIONS

SITE TOPOGRAPHY

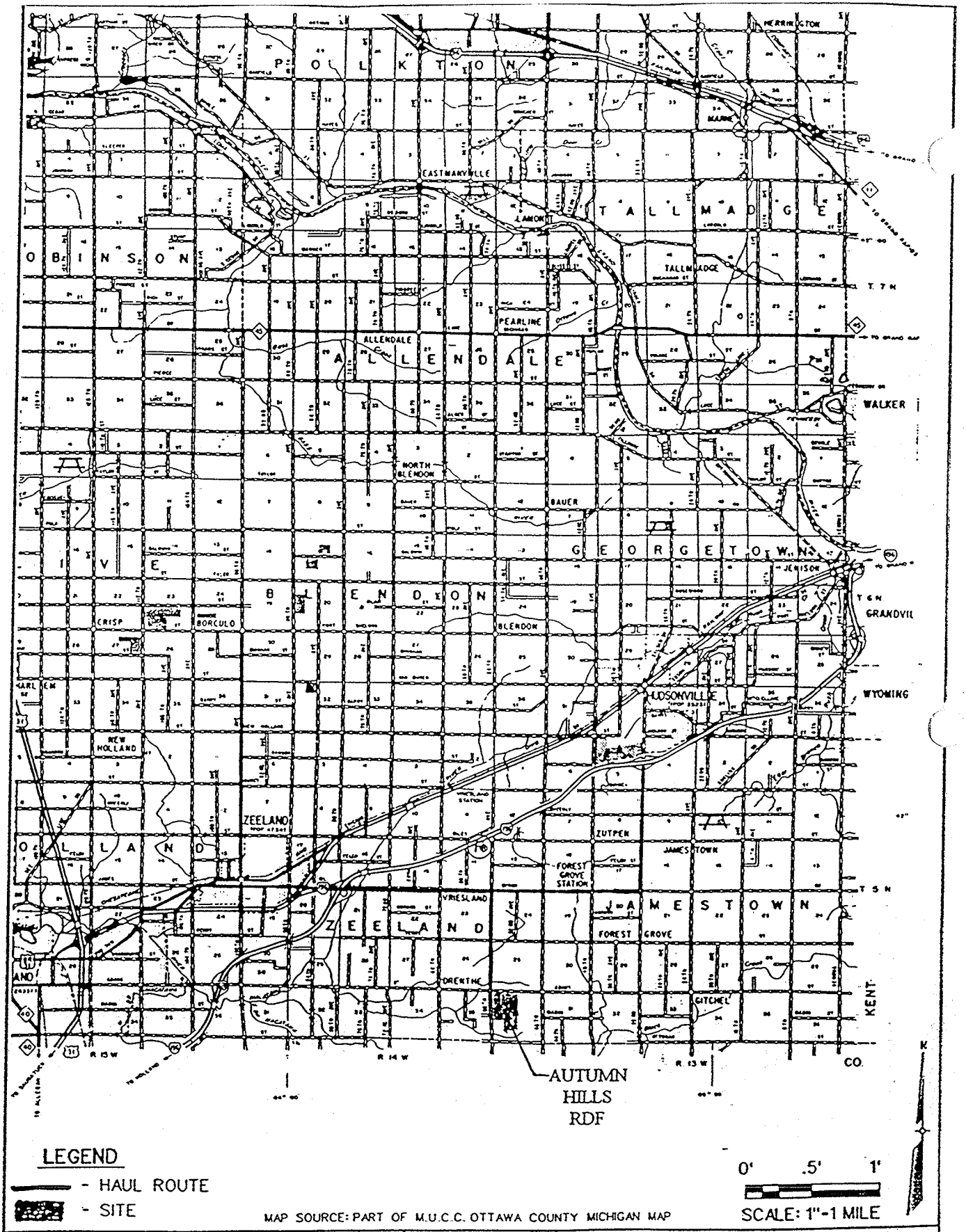
FILE NAME: project1\outhills\70184\0184s02.dgn
PLOT DATE: 08-OCT-1996 16:02



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

ATTACHMENT A

DUST ENVIRONMENT & INFRASTRUCTURE	PROJECT NO: 70184.100	PROJECT: AUTUMN HILLS RECYCLING AND DISPOSAL FACILITY OTTAWA COUNTY, MICHIGAN	SHEET 1 OF 1
	CADD PRODUCED DRAWING 0184S02.DGN LKL/21AUG95	SHEET TITLE: EXISTING FACILITY LAYOUT AND MONITORING PLAN	DRAWING NO. 1



LEGEND

- HAUL ROUTE
- SITE

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

0' .5' 1'

SCALE: 1"-1 MILE

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

AA#11 3-14-00

VAN BUREN COUNTY BOARD OF COMMISSIONERS

RESOLUTION • MOTION • REPORT OF **ADMINISTRATIVE AFFAIRS** COMMITTEE

HONORABLE BOARD OF COMMISSIONERS:

WHEREAS, the Solid Waste Planning Committee has approved the Van Buren County Solid Waste Management Plan Update, and;

WHEREAS, a public hearing was held as required and a presentation was made to the Van Buren County Board of Commissioners.

NOW, THEREFORE BE IT RESOLVED, that the Van Buren County Board of Commissioners approve the Van Buren County Solid Waste Management Plan Update as submitted.

Signed: Donald A Hanson
Thomas Rayfell
Richard Fagerstrom
Robert L Kay
James G Ray
Douglas DeLeo
Thomas R Tangos

Date: March 14, 2000

FOR CLERK'S USE ONLY

MOTION BY: Hanson

SECONDED BY: Kay

CARRIED ☒

NOT CARRIED ☐

Sample Resolution
The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Antwerp Twp' Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update. approved April 11, 2000

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: Bonnie Osborne
Seconded By: Ron Derhammer

ARLINGTON TOWNSHIP
Van Buren County, Michigan

RESOLUTION 2-00
The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners had approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Arlington Township Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion to adopt offered by: Phillip A. Pitts
Motion to adopt supported by: George H. Dorr

YEAS: 3
NAYS: 0
ABSENT: 2

The resolution was declared adopted June 21, 2000.

George H. Dorr
Arlington Township Clerk

CITY OF BANGOR
RESOLUTION #00-05

Resolution approving the 2000 Van Buren County Solid Waste Management Plan Update.

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is requested to review and adopt the plan and its updates to the effect that 2/3rds must officially approve the plan and its updates; AND

WHEREAS, The 2000 update of the Van Buren County Solid Waste Management Plan has been reviewed by staff whom recommends approval by the City Council.

NOW, THEREFORE BE IT RESOLVED that the City Council of the City of Bangor does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Planning Committee of Van Buren County and other agencies to document support and endorsement of the 2000 Van Buren County Solid Waste Management Plan Update.

Dated this 5th day of June 2000.

AYES: 6

NAYS: 0

Adopted: June 5, 2000 George Sink, Mayor: [signature]

CERTIFICATION

I, Adeline Starks, the duly appointed Clerk of the City of Bangor do certify that the above resolutions was adopted at a regular meeting of the Bangor City Council on June 5th, 2000. The original of the above resolution will be kept on file in my office.

Adeline Starks

ADELINE STARKS, City Clerk

Sample Resolution
The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Bangor Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: Thomas
Seconded By: Hondek

Sample Resolution
The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the BLOOMINGDALE Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: BERNIE MILLER
Seconded By: DAVID BLY

ALL IN FAVOR. MOTION PASSED.

APPROVED: APRIL 19, 2000

LINDA STANGE, CLERK

The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Columbia Twp. Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By:
Seconded By:

This resolution was presented to the Columbia Township Board, March 21, 2000, and declared approved by the following vote:

	Aye	Nay
Harrington	X	
Speicher	X	
Beckwith	X	
Landers	X	
May	X	

Signed: Dean Beckwith Date: 3/28/00

Position: Supervisor

Signed: Ken J Speicher Date: 4-1-00

Position: Clerk

TOWNSHIP OF COVERT

P.O. BOX 35

COVERT, MICHIGAN 49043
(616) 764-8986 Fax (616) 764-1771

CLERK
CONSTANCE CASTOR

TRUSTEE
JAMES A. JEFFRIES

JERRY SARNO, SUPERVISOR

TREASURER
CAROLYN STUCKUM

TRUSTEE
DOC J. ANDERSON

The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Covert Twp. Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: Constance Castor
Seconded By: Doc Anderson

Resolution passed at Regular Meeting of Covert Township Board, June 13, 2000.

Constance Castor

Constance Castor, Covert Township Clerk

THE 2000 VAN BUREN COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE – RESOLUTION #00-04

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long term range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Decatur Village Council does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this Resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Resolved this 3rd day of April, 2000.

Carl Wickett

Carl Wickett, Village President

Norma Strickler

Norma Strickler, Village Clerk

Upon a motion made by Councilmember B. Southworth and seconded by Councilmember D. Polomcak the above and foregoing Resolution was duly resolved.

FOR: 6
AGAINST: 0

ABSENT: 1
ABSTAINING: 0

Sample Resolution
The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the DECATUR Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: FLORY
Seconded By: Janet Abshagen

ROLL CALL VOTE - all yes.

Janet Abshagen
CLERK DECATUR TWP.
4-11-00

RESOLUTION

The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, The Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Gobles City Commission does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copes of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion by: Commissioner Lee

Seconded By: Commissioner Wedde

Ayes: Commissioners Lee, Freiberg, Wedde, Johnson, Hulin, Price, Melvin

Nays: None

Absent: None

Paula S Sipes

Paula S. Sipes
Gobles City Clerk

Sample Resolution
The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Hamilton Township Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: Hanson
Seconded By: Rizzoni; carried

CITY OF HARTFORD

COUNTY OF VAN BUREN

RESOLUTION #2000-06

The 2000 Van Buren County Solid Waste Management Plan Update.

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Hartford City Commission does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to Document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion BY: -Banic. :Seconded By: McLaughlin: Motion Carried.

This is to certify that the above resolution was adopted by the Hartford City Commission during the regular meeting held on March 27,2000.

Jan Kelly

Jan Kelly
Clerk

Motion by Alan Knapp, seconded by Ulrich Claassen to adopt the following resolution in support of the 2000 Van Buren County Solid Waste Management Plan Update:

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Lawton Village Council does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Dated: May 9, 2000

Roll call vote: YEA: Campbell, Coombs, Knapp, Claassen and Cornish. NAY: None. ABSTAIN: None. ABSENT: Price and Reeves. Motion declared carried.

I hereby certify that the foregoing is a true copy of a resolution adopted by the Lawton Village Council at the May 10, 2000 Regular Meeting.

Andreia K. Gailhouse, Village Clerk

VILLAGE OF MATTAWAN

County of Van Buren, State of Michigan

RESOLUTION TO APPROVE THE 2000 VAN BUREN COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the ***Village of Mattawan Council*** does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

The above Resolution was introduced by Councilmember ***Szymczak***, supported by Councilmember ***Brooks***, and passed on a vote of ***six*** in the affirmative, and ***none*** in the negative, with ***one*** absent, at a regularly scheduled meeting of the Mattawan Village Council held at the Mattawan Village Hall on the 24th of April, 2000.

RESOLUTION DECLARED ADOPTED

Bryan Chodkowski, Clerk

RESOLUTION
THE 2000 VAN BUREN COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, The Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Paw Paw Village Council does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: Judith Porth
Seconded By: Dean Basinger
Motion Approved By: Paw Paw Village Council
Date: March 27, 2000

Lois Craddock

Lois Craddock,
Deputy Village Clerk
Certification

Paw Paw Township

ERNEST J. RESHMAN, Supervisor
ROBERT P. JACKSON, Clerk
PATRICIA I. PETERS, Treasurer
STEVEN D. RIGONI, Trustee
BONNIE J. PARDIKE, Trustee

114 N. Gremps St.
P.O. Box 20
Paw Paw, Michigan 49079
Phone 616-657-4340
Fax 616-657-5683

The following resolution was adopted by the Paw Paw Township Board on April 13, 2000.

RESOLUTION
THE 2000 VAN BUREN COUNTY SOLID WASTE MANAGEMENT PLAN UPDATE

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it.

NOW, THEREFORE, BE IT RESOLVED that the Paw Paw Township Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Sincerely,

Robert P. Jackson
Paw Paw Township Clerk

The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the Pine Grove Township Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update

Motion By: Heintzman

Seconded By: Ritter

All yes

CITY OF SOUTH HAVEN
COUNTIES OF VAN BUREN AND ALLEGAN, MICHIGAN

RESOLUTION NO. 00-37

A RESOLUTION APPROVING THE 2000 VAN BUREN COUNTY SOLID WASTE MANAGEMENT PLAN

Minutes of a regular meeting of the City Council of the City of South Haven, Van Buren and Allegan Counties, State of Michigan, held in City Hall, 539 Phoenix Street, South Haven, Michigan, on June 19, 2000, at 7:30 p.m., local time.

Present: Adler, Fanger, Lewis, Nixon, Thaler, and Mills

Absent: McClendon

The following preamble and resolution were offered by Council Member Lewis and supported by Council Member Nixon.

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 Solid Waste Management Plan has been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is requested to review the plan and approve the plan.

NOW, THEREFORE, BE IT RESOLVED THAT:

1. The South Haven City Council does hereby approve the 2000 Van Buren County Solid Waste Management Plan.

AYES: Adler, Fanger, Nixon, Lewis, Thaler and Mills

NAYS: None

RESOLUTION DECLARED ADOPTED.

James Mills
Mayor

CERTIFICATION

STATE OF MICHIGAN)
) ss.
COUNTIES OF ALLEGAN AND VAN BUREN)

I, Patsy J. Neville, the duly qualified and acting Clerk of the City of South Haven, do hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City Council at a meeting held on June 19, 2000, the original of which is on file in the office of the Clerk.

IN WITNESS WHEREOF, I have hereto affixed my official signature this June 19, 2000.

Patsy J. Neville
Patsy J. Neville, Clerk

RESOLUTION 00-06

THE 2000 VAN BUREN COUNTY
SOLID WASTE MANAGEMENT PLAN UPDATE

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the South Haven Charter Township Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion by: Helen Decker
Seconded by: Kathleen Poindexter

Approved at the April 12, 2000 board meeting.

Helen Decker

Helen Decker, Clerk

C. Ross Stein

C. Ross Stein, Supervisor

Waverly Township approval of
The 2000 Van Buren County Solid Wast Management Plan Update

WHEREAS: the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren county the protection of our natural resources: and

WHEREAS: Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS: the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County: and

WHEREAS: the Van Buren County Board of Commissioners has approved the current plan: and

WHEREAS: each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW THEREFORE, BE IT RESOLVED that **WAVERLY TOWNSHIP** Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By: Fay A. Dorr

Seconded By: A. Jean Dahms

Solid Waste Planning Committee
October 25, 1999
Human Services Building
Paw Paw, MI

Memebers present: Cubbage, Moore, Hokanson, Graffinius, Philips, Andrews, Colclough

Also present: Cathy Foune

Meeting called to order at 7:00 p.m.

Foune reviewed all the changes that were made to the Plan in regards to the committee's comments.

Philips motioned that the Plan be released for Public Comment. Seconded by Colclough. Motion approved.

It was decided that the Public Hearing be scheduled for December 7th at 7 p.m. at the Van Buren Conference Center in Lawrence. Foune will be responsible for booking the room and sending out the notices for the public hearing. All committee members are encouraged to attend the public hearing.

The next committee meeting will be in February after the Public Comment period.

Meeting adjourned 7:40 p.m.

AFFIDAVIT OF PUBLICATION

STATE OF MICHIGAN

COUNTY OF BERRIEN } SS

Don Paul Hicks, Jr., being duly sworn and says that he is Inside Sales Manager of The Herald-Palladium, a newspaper published, printed and circulated in the County of Berrien, State of Michigan; That the annexed printed notice has been printed and published in said newspaper 1 times, same being on the following days, to wit:

November 5, 1999

(Signature)

Subscribed and sworn to me this 8 Day of November A.D. 19 99

Jennifer Ann Tyson

NOTARY PUBLIC, Berrien County, Michigan

My commission expires 12/31 20 01

PUBLIC NOTICE

A 90 day public review period will be held November 12-February 12, 1999 for the draft Van Buren County Solid Waste Management Plan Update. Written comments will be accepted at MSU Extension, 801 Hazen St., Suite A, Paw Paw, MI 49064.

A public hearing will be held on Tuesday, December 7, 1999 at 7 p.m. at the Van Buren Conference Center, 490 1/2 South Paw Paw Street, Lawrence, MI 49064.

Persons with disabilities who require alternative means for communication of program information should contact the Extension office at 616-657-7745.

Copies of the draft plan are available for viewing at the MSU Extension Office.
November 5, 1999
HP/ADV

PUBLISHER'S AFFIDAVIT

PUBLIC NOTICE

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OFFICE OF

THE COURIER-LEADER

PAW PAW, MICHIGAN 49079

STATE OF MICHIGAN,
County of Van Buren, } **ss.**

FELIX A. RACETTE

being duly sworn, says I am the printer of

THE COURIER-LEADER

a weekly newspaper printed and circulating in said county, that the annexed is a printed copy of a notice published in said paper, that the first

insertion was on the 5TH **day of** NOVEMBER

A.D. 1999**, and the same was published each**

week thereafter until the ONE TIME ONLY.

day of _____**, A.D. 19**____**,**
when the last insertion appeared.

Felix A. Racette **Printer.**

Subscribed and sworn to before me this 5TH

day of NOVEMBER **A.D. 19**99

Valerie A Beeching
Notary Public, Van Buren County, Michigan

My Commission expires VALERIE A. BEECHING ~~Notary Public, VanBuren County~~, MI
My Commission Expires Aug. 10, 2003

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STATE OF MICHIGAN)
County of Kalamazoo) ss. Elizabeth J. Underwood

being duly sworn deposes and says he/she is Principal Clerk of

THE KALAMAZOO GAZETTE

DAILY EDITION

a newspaper published and circulated in the County of Kalamazoo and otherwise qualified according to Supreme Court Rule; and that the annexed notice, taken from said paper, has been duly published in said paper on the following day(days) .....

November 4 A.D. 19 99

Sworn to and subscribed before me this 4th day of November 19 99

Kelly Ann Reggio

Notary Public, Kalamazoo County, Michigan

KELLY ANN REGGIO
NOTARY PUBLIC STATE OF MICHIGAN
KALAMAZOO COUNTY
MY COMMISSION EXP. FEB. 4 2003

Solid Waste Planning Committee
February 16, 2000
Human Services Building
Paw Paw, MI

Members present: Philips, Colclough, Cubbage, Andrews, Tanczos

Also present: Cathy Foune

Meeting called to order at 7:03 p.m.

Andrews asked Foune to discuss the comments made by the Department of Environmental Quality (DEQ) regarding the plan. Foune discussed the comments and what changes were made in response to those comments.

Philips motioned that the Plan be approved with the changes made regarding the DEQ comments. Motion seconded by Cubbage. All approved, including Moore, Martinez and Hokanson (by absentee ballot).

It was discussed that Foune should send a packet of information to the County Board and all local units of government including: sample resolution, changes made to the Plan since the public comment period, a letter starting someone could do a presentation if necessary and set a June 1, 2000 deadline for local approval and a schematic a the approval process.

Committee members offered to do presentations in the units of government closest to them.

Meeting adjourned 7:30 p.m.

March 15, 2000

To: All Local Municipalities
From: Dave Andrews, Solid Waste Planning Committee Chairperson DA
Cathy Foune, Resource Recovery Agent CLb
Sub: Van Buren County Solid Waste Management Plan Update

Dear Municipalities:

The Van Buren County Board of Commissioners has approved the Van Buren County Solid Waste Management Plan Update, hereafter referred to as "the Plan". A resolution approving the Plan was signed at the March 14th meeting.

The Plan must now be approved by the local municipalities. Approval from 2/3 of the local municipalities is needed before the Plan may be submitted to the Department of Environmental Quality (DEQ) for final approval. For your information, a schematic of the plan approval process is enclosed.

Some changes have been made to the Plan since you received your copy earlier this year. Those changed are enclosed. You will notice that no content changes have been made. The changes were fixing typos and filling in missing information. These changes made were made in regards to comments received from the DEQ regarding the Plan. The changes made were done so to help ensure the Plan is approved by the DEQ.

The Solid Waste Planning Committee would appreciate your prompt attention to this matter. We would like to set a goal for your approval no later than May 1, 2000. The DEQ is expecting local approval by June 2000. We have already missed the deadline for submitting the Plan and are extremely thankful for the extension granted to us from the DEQ. Please be sure to send Cathy a copy of your approved resolution. For your connivance, a sample resolution is enclosed.

Please do not hesitate to contact Cathy if you have any questions. The Solid Waste Planning Committee is very willing to make a brief presentation regarding the Plan at any board meeting. Please contact Cathy at 657-7745 if you would like someone to make a presentation at your next meeting.

enclosures:
Changes made to the Van Buren Plan
Van Buren Plan Fact Sheet
Plan Approval Process Schematic
Sample Resolution

Van Buren County Solid Waste Management Plan Update
Fact Sheet

- The Department of Environmental Quality (DEQ) requires that every county have a Solid Waste Management Plan Update. The purpose of the plan it to verify that each county has facilities that will accept their waste for the next five years. Counties not locating enough facilities to dispose of all waste produced in the county, are required to site a landfill.

- Van Buren County is not required to site a landfill since there is enough capacity at landfills currently utilized by the County.

- The three main goals of the Van Buren Plan as identified by the fourteen member planning committee are:

  1) Educate the Citizens of Van Buren County in all aspects of resource recovery for the conservation and protection of our natural resources. This includes waste reduction, reuse, recycling, composting and solid waste disposal.

  2) Assist businesses, citizens and residents of Van Buren County in reducing waste going to landfills to only "unusable residues"

  3) Actively implementing the solid waste management plan in Van Buren County.

- The current system of transfer station contracts between municipalities and private industry will be maintained.

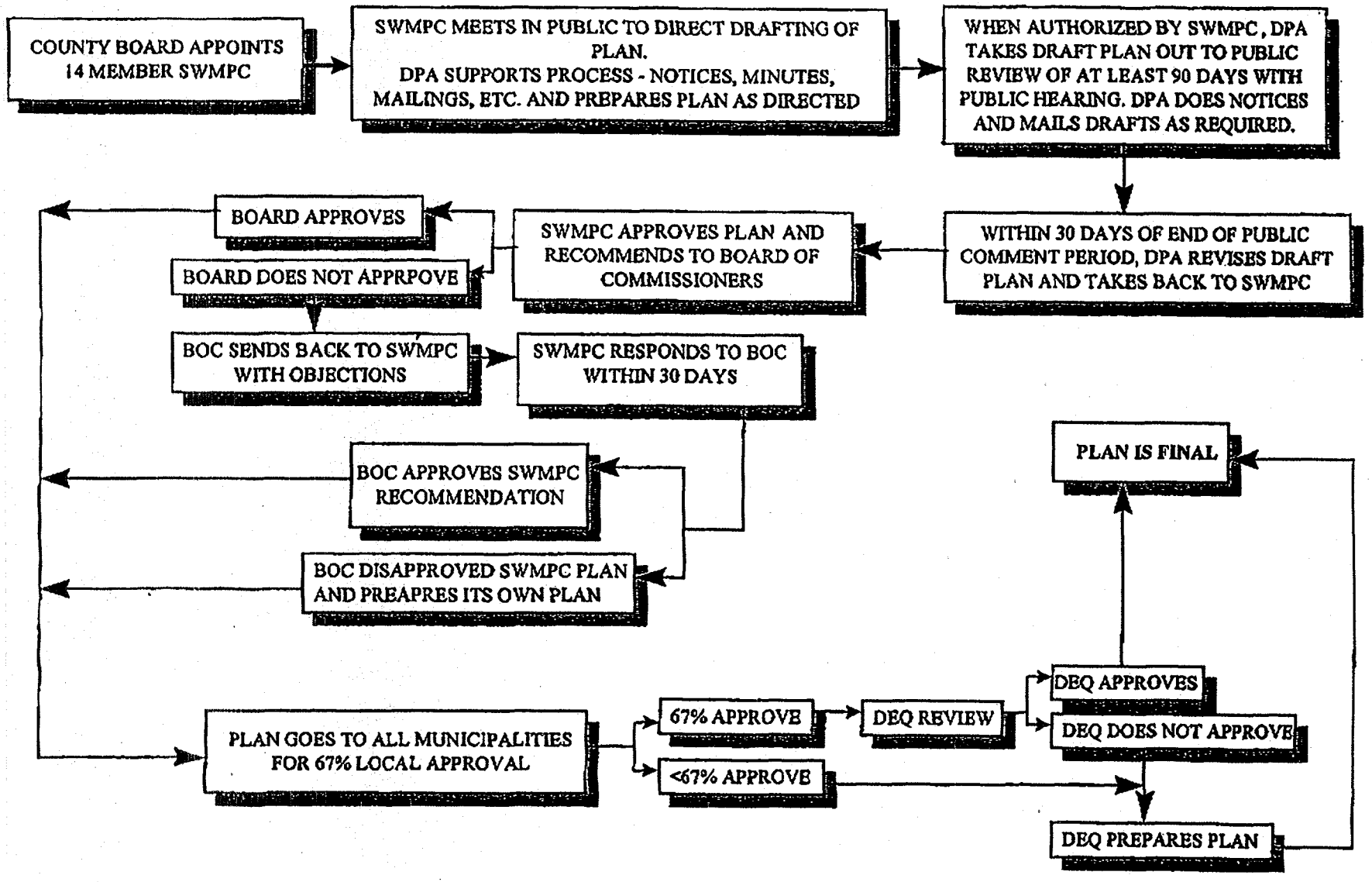
- Private sector operations will continue to manage collection processes and transportation.

- Local municipalities will have the option of participating in programs such as household hazardous waste collections, tire collections, etc. based on their budget priorities.

- The importance of education on waste reduction, recycling, reuse and resource conservation is the main focus of the Plan. Educational efforts will be targeted at everyone including school-aged children, political officials and the general public.

- The Plan encourages that a full time staff person be employed by the County to implement the plan.

- As required by state law, the county will maintain the fourteen member solid waste planning committee, so that in five years the plan can again be updated.



PLAN APPROVAL PROCESS

Changes made to the Van Buren County Solid Waste Management Plan Update

Cover Page: change date to the date the Plan submitted to the DEQ

II-3: Arbor Hills Landfill lifetime changed from 176 to 17.6 years
Autumn Hills Landfill location changed to Ottawa County

II-5: Total area sited for use for Orchard Hills changed to 117 acres. Also, Pitsch Sanitary Landfill changed to 160 acres

II-6: Vienna Junction Landfill deleted from Plan because Monroe County did not include Van Buren County in its Plan. We have plenty of other landfills that are willing to accept our waste

II-7-10: Cork Street Transfer Station deleted from Plan because it is only an intermediary, not a final disposal site. Also, missing information about site size for Antwerp Township, Bangor Township, and South Haven-Geneva Township transfer stations was added.

III-3&4: The word "any" was changed to the word "all" and the words "authorizes such export and agrees to accept Van Buren County waste on a reciprocal basis" was deleted since it is implied.

III-5 & 6: Ottawa County added to table; Kent, Monroe and Kalamazoo Counties were deleted.

III-30: Local responsibility for enforcement was changed from "DPA" to "County Board of Commissioners"

IV-1: Copies from disposal facilities stating their ability to accept waste were added.

C-2: New committee members were added to the list

Sample Resolution
The 2000 Van Buren County Solid Waste Management Plan Update

WHEREAS, the generation and proper management and disposal of solid waste is vitally important to the quality of life enjoyed by the citizens of Van Buren County and for the protection of our natural resources; and

WHEREAS, Michigan Public Act 641 of 1978 requires each county to have a current plan which incorporates short term and long range solutions for the management of solid waste; and

WHEREAS, the 2000 plan had been developed, reviewed and endorsed by the Solid Waste Management Planning Committee of Van Buren County; and

WHEREAS, the Van Buren County Board of Commissioners has approved the current plan; and

WHEREAS, each local unit of government in Van Buren County is being requested to review the plan and take action on it,

NOW, THEREFORE, BE IT RESOLVED that the _____ Board does hereby approve the 2000 Van Buren County Solid Waste Management Plan Update.

BE IT FURTHER RESOLVED that copies of this resolution be forwarded to the Solid Waste Management Committee of Van Buren County and other appropriate agencies to document support and endorsement of the 2000 Solid Waste Management Plan Update.

Motion By:
Seconded By: