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

July 28, 2000

Mr. Robert Sargent, Chairperson
Branch County Board of Commissioners
31 Division Street
Coldwater, Michigan 49036

Dear Mr. Sargent:

The Department of Environmental Quality (DEQ) received the locally approved update to the Branch County Solid Waste Management Plan (Plan) on December 9, 1999.

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

By approving the Plan, the DEQ has determined that it complies with the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Part 115 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, at 517-373-4750.

Sincerely,

Russell J. Harding
Director
517-373-7917

cc: Senator Philip E. Hoffman
Representative Steven A. J. Vear
Mr. Ken Strong, Branch County Drain Commissioner
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
Mr. Matt Staron, DEQ
Branch County File

AMERICAN
HYDROGEOLOGY
CORPORATION

Environmental Services

December 7, 1999

DEC 0 9 1999
Waste Management

Mr Seth Phillips
Michigan Department of Environmental Quality
Waste Management Division
Solid Waste Management Unit
P O Box 30241
Lansing, Michigan 48909-7741

Re: Branch County Solid Waste Management Plan Update

Dear Mr Phillips:

Please find enclosed the Branch County Solid Waste Management Plan Update As you may know, a draft of the document was reviewed by Ms Melinda Ann Keillor of your department earlier this year The draft Plan Update was revised per Ms Keillor's comments, as practicable, and has been approved by the Branch County Board of Commissioners and a vast majority of the municipalities. Please direct any questions or comments pertaining to the Plan to me at (616) 329-1600 or Ken Strong, chairman of the Branch County Solid Waste Management Planning Committee, at (517) 279-4310 We look forward to hearing from you in this regard.

Sincerely,

AMERICAN HYDROGEOLOGY CORPORATION

Jeffrey H. Eves
Project Manager

JHE/pak/455-2051

cc: Ken Strong and Layla Rench, Branch County Courthouse

6869 Sprinkle Road • Portage, Michigan 49002 • (616) 329-1600 • Fax: (616) 329-2494

BRANCH COUNTY SOLID WASTE MANAGEMENT PLAN

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

1998 PLAN UPDATE COVER PAGE

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

DATE SUBMITTED TO THE DEQ: December 7, 1999

This Plan is for Branch County; no other counties or municipalities located outside Branch County are included in this Plan.

DESIGNATED PLANNING AGENCY PREPARING THIS PLAN UPDATE:

CONTACT PERSON: Mr Ken Strong, Director of Public Works

County Courthouse

31 Division Street

Coldwater, MI 49036

PHONE: (517) 279-4310 **FAX:** (517) 279-2486

CENTRAL REPOSITORY LOCATION: Administrator's Office, Branch County Courthouse

31 Division Street

Coldwater, Michigan

TABLE OF CONTENTS

SECTION I 1

EXECUTIVE SUMMARY 1
OVERALL VIEW OF THE COUNTY 1
CONCLUSIONS 2
INTRODUCTION 3
GOALS AND OBJECTIVES 3

SECTION II 5

DATA BASE 5
BRANCH COUNTY SOLID WASTE STREAM ASSESSMENT 5
SOLID WASTE DISPOSAL AREAS 6
SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION INFRASTRUCTURE 6
EVALUATION OF DEFICIENCIES AND PROBLEMS 7
DEMOGRAPHICS 7
LAND DEVELOPMENT 8
SOLID WASTE MANAGEMENT ALTERNATIVES 9

SECTION III 13

THE SELECTED SOLID WASTE MANAGEMENT SYSTEM 13
SOLID WASTE DISPOSAL AREAS 17
SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION 35
RESOURCE CONSERVATION EFFORTS 35
WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS 36
SITING REVIEW PROCEDURES 49
IDENTIFICATION OF RESPONSIBLE PARTIES 50
LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL 53
CAPACITY CERTIFICATIONS 54

LIST OF APPENDICES

Appendix A - Additional Information Regarding the Selected System:
Evaluation of Recycling ..... A - 1
Detailed Features of Recycling and Composting Programs ..... A - 2
Coordination Efforts ..... A - 4
Costs and Funding ..... A - 5
Evaluation Summary ..... A - 6
Advantages and Disadvantages ..... A - 7
Appendix B - Non-Selected Systems ..... B - 1
Appendix C - Public Participation and Approval ..... C - 1
Appendix D –Attachments ..... D – 1

SECTION I

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 will take precedence over the executive summary.

OVERALL VIEW OF THE COUNTY

Branch county is a rural county located in extreme south-central Michigan. The most recent data from the 1990 census indicates the population of the County was 41,502 persons. The most populous city is the City of Coldwater with a current estimated population of 9,607. The largest township is Coldwater Township with an estimated 1996 population of 5,027. Over 50 percent of the population of the County lives in the Coldwater - Quincy area. The rest of the population is evenly distributed throughout the rural townships in the County. According to a 1990 profile of Branch County by the Michigan State University Extension, 76.9% of the population in Branch County is rural, and the remaining 23.1% consists of urban population.

The civilian labor force is estimated to be 20,875 with 20,000 people employed in January 1998 and 875 unemployed or 4.2 percent. The percentages of the economic base of Branch County are estimated to be approximately less than 1% agricultural, 3% construction, 39% industrial, 58% commercial, and less than 1% other businesses (source: U.S. Dept. of Commerce, Bureau of Census, County Business Patterns, 1989-1995).

Population projections for Branch County as reported in the Housing Market Study for Branch County, Michigan, 1998 by McKenna Associates Inc. are as follows:

Year	Population
2000	43,800
2005	44,900
2010	46,100
2015	47,200

The population projections indicates steady growth in Branch County, at about 2.4% growth every 5 years. The Branch County Economic Growth Alliance has reported that in 1992, 42 new incorporations were reported in Branch County, while the statewide median for this statistic was 68. The incorporation rate in 1992 was reported to be 101 (incorporations per 100,000 population), while the statewide median was 183.

Based on the above demographic data, the population and economic growth projected indicates that there will likely be no significant increases in solid waste generated in Branch County.

CONCLUSIONS

Upon consideration of the currently available solid waste management alternatives, the existing system which generally consists of out-of-county waste disposal, including waste reduction, source separation, and recycling programs, was selected as the most practicable and cost-efficient means of solid waste management for Branch County.

Waste Disposal

At this time, Branch County does not have a disposal facility within its borders. Solid waste produced in the County may be exported to disposal facilities located in the following counties for the short-term planning period: Barry, Berrien, Calhoun, Genesee, Hillsdale, Huron, Ionia, Kalamazoo, Lenawee, Midland, Muskegon, Oakland, Ottawa, Sanilac, Shiawassee, St. Joseph, Wayne, Washtenaw, Allen (Indiana), and Williams (Ohio) The long-term solid waste capacity requirement of Part 115 is satisfied by the disposal capacities available to Branch County in the disposal facilities in these counties.

Solid Waste Collection

Branch County is served by a combination of private and public solid waste haulers. The City of Coldwater has its own collection service that has served the City since 1954. It has 2,537 residential accounts that are serviced on a weekly basis. In the rest of the County, private haulers contract with individuals, businesses and industries for refuse service. Transfer stations in the cities of Coldwater, Bronson, and the Villages of Quincy and Union City also provide Branch County residents with the means to effectively manage their solid waste.

Implementation

The Branch County Solid Waste Management Plan Update submitted by the County identifies the Branch County Board of Public Works as the designated planning agency (DPA) for Branch County as appointed by the County Board of Commissioners. The Board will be responsible for the initial implementation of the Update. The Board of Public Works is also responsible for deciding issues of consistency regarding solid waste disposal issues Branch County. The Branch County Solid Waste Management Planning Committee (Committee) was appointed by the Branch County Board of Commissioners to assist the DPA in the preparation of the Update. The DPA will periodically communicate recycling and other solid waste management information to public and private entities in an effort to encourage waste reduction, source separation, and recycling within the County.

SELECTED ALTERNATIVES

Five-Year Plan

During the five-year update period the solid waste produced in Branch County may be exported to the following counties: Barry, Berrien, Calhoun, Genesee, Hillsdale, Huron, Ionia, Kalamazoo, Lenawee, Midland, Muskegon, Oakland, Ottawa, Sanilac, Shiawassee, St. Joseph, Wayne, Washtenaw, Allen (Indiana), and Williams (Ohio). Through utilization of existing programs, Branch County will also strive towards the goal of recycling 15% of the waste stream, composting 10% and reducing the overall waste stream by 5%.

Ten-Year Plan

During the ten-year period, solid waste will continue to be disposed in privately owned landfills in other counties for the long-term planning period. This Plan will be updated as necessary to allow disposal of solid waste generated in other counties not presently listed in this Plan. The County will continue to strive toward expanding the recycling, composting, and waste reduction goals described elsewhere in this plan.

Primary/Contingency Disposal

Primary exportation of up to 100% of solid waste from Branch County will be to each of the following counties: Barry, Berrien, Calhoun, Hillsdale, Ionia, Kalamazoo, Lenawee, Oakland, Ottawa, Shiawassee, St. Joseph, Wayne, Washtenaw, Steuben (IN), Williams (OH). Contingency exportation of solid waste from Branch County will be to the following counties: Genesee, Huron, Midland, Muskegon, and Sanilac

INTRODUCTION

GOALS AND OBJECTIVES

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

(1) To utilize to the maximum extent possible the resources available in Michigan's solid waste stream through source reduction, source separation, and other means of resource recovery and;

(2) to prevent adverse effects on the public health and the environment resulting from improper solid waste collection, transportation, processing, or disposal, so as to protect the quality of the air, the land, and ground and surface waters.

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

Goal 1: To provide an environmentally safe and effective waste management system for Branch County.

Objectives

A. To provide an implementation plan to achieve an integrated waste management system in the County.

B. To educate the citizens on waste management alternatives and environmental impacts.

C. Promote recycling, composting and waste reduction to the greatest extent practical.

Goal 2: Minimize public health and environmental impacts of solid waste management.

Objectives

A. Ensure all waste disposed of goes to a Part 115 licensed facility or an out-of-state equivalent to a Part 115 landfill.

B. To provide a contingency plan for the County's waste management system.

Goal 3: To provide the most appropriate technology and most cost effective means of solid waste management for Branch County.

Objectives

A. Review solid waste management alternatives and select the most appropriate and cost effective technologies for Branch County.

B. Encourage private industry and governmental partnership in solid waste management.

C. Cooperate with other counties and states in joint agreements in dealing with area solid waste management strategies.

SECTION II

DATA BASE

BRANCH COUNTY SOLID WASTE STREAM ASSESSMENT

The solid waste generation estimates for Branch County are detailed below:

Current Waste Generation Rates:

Since this Plan Update has been completed in 1999, the published waste generation rate estimates for the year 2000 are considered representative of the present waste generation rate in Branch County.

	Waste Type	Annual Volume (Tons)
*	Municipal Solid Waste (3.88 lbs/day/person)	31,015
**	Industrial Solid Waste	15,188
***	Construction/Demolition	4,796
		†50,999

Future Waste Generation Rates – Ten-Year Planning Period:

The waste generation rates for the end of the ten-year planning period, 2010, are based on available published demographic and waste generation rates, as detailed in the footnotes below

	Waste Type	Annual Volume (Tons)
*	Municipal Solid Waste (4.16 lbs/day/person)	34,999
**	Industrial Solid Waste	15,950
***	Construction/Demolition	5,037
		†55,986

* Municipal solid waste rate is based on the per capita rate which includes a deduction of the yard waste from the total waste generation rate Source: Characterization of Municipal Solid Waste in The United States, 1996 Update, June 1997, Franklin Associates, Ltd for U S EPA.

** Source: Solid Waste Association of North America (SWANA) assumption of 1.9 lbs/person/day

*** Source: SWANA assumption of 0.6 lbs/person/day

† Waste generation volumes are based on the current, year 2000, population estimate of 43,800 persons; and the future, ten-year planning period estimate is based on the population projection of 46,000 persons in 2010.

TOTAL QUANTITY OF SOLID WASTE GENERATED – 50,999 TONS (2000)

Total Quantity of Solid Waste Needing Disposal:

In the 1993 Plan Update, the MDEQ indicated that recoverable materials from Branch County's solid waste stream included the following: paper (15.1%); glass (5.4%); ferrous (5.7%); plastics (3.7%); and nonferrous (1%). The MDEQ reported that the remaining 69.1% of the solid waste stream consisted of "nonmarketable" material. In other words, approximately 31% of the total

could potentially be recovered prior to disposal It is the opinion of the Branch County Solid Waste Planning Committee that the overall components of the solid waste stream have not significantly changed. Therefore, the following estimates of quantities of solid waste needing disposal have been calculated using the projected solid wastes generated minus the quantities of recoverable materials:

2000 =50,999 tons x 69.1% = 32,240 tons
2010 =55,986 tons x 69.1% = 38,686 tons

The projected quantities of solid waste needing disposal are based on the assumptions described above and represent minimum volumes. Since Branch County does not administer resource recovery programs, inadequate data regarding actual recovery of wastes is available. Assuming a current 10% municipal solid waste recycling rate, a 15% industrial solid waste recycling rate, 100% of diversion of yard wastes, the actual quantity of solid waste needing disposal is indicated below. However, Branch County will strive to minimize the volume of the waste needing disposal through management techniques such as source separation, recycling, composting, etc. as outlined elsewhere in this Plan.

TOTAL QUANTITY OF SOLID WASTE NEEDING DISPOSAL = 45,119 TONS (2000)

Branch County does not anticipate any major problems relating to solid waste management within the next five or ten years. Population and economic growth do not present any foreseeable significant increases in solid waste generation in the county. Ample landfill space is available in multiple locations outside Branch County. In addition, Branch County intends to maintain and improve waste reduction, recycling, and composting efforts in the future to minimize the quantity of solid waste needing to be landfilled

SOLID WASTE DISPOSAL AREAS

Since Branch County has no solid waste disposal areas (landfills) within its borders, all solid waste which is generated in Branch County which must be disposed is transported to other counties or states for disposal. An inventory of the solid waste disposal areas to be utilized by the County to meet its disposal needs for the planning period begins on Page 17 of this Plan

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.

Currently all of the solid waste produced in Branch County is disposed in out-of-county landfills via transfer stations and direct hauling. There are three transfer stations serving the County. The City of Coldwater has a privately-owned transfer station located in Coldwater currently operated by National Serv-All, Inc. A publicly-owned transfer station also services the Village and Township of Quincy, and a privately-owned transfer station is located in Union City. Other transfer stations within the counties identified in this Plan may be utilized by public or private entities which generate solid waste within Branch County.

Solid waste generated within the county is transported by private or public haulers either to transfer stations or directly to landfills outside the county. Solid waste is transported as needed via Interstate Highway 69, state highways, county roads, and secondary roads. All areas within the county are accessible for solid waste transport, as approved by state law.

EVALUATION OF DEFICIENCIES AND PROBLEMS

The Branch County Solid Waste Management Planning Committee has contacted the municipalities within the County and has obtained no indications of deficiencies with the current solid waste system. At present, there are no foreseen problems in connection with available landfill space for the solid waste generated in the County. In fact, various landfill facility representatives indicate that anticipated expansions at these landfills will provide ample disposal capacities well beyond the ten-year planning period.

As a rural county, Branch County lacks funding for a comprehensive, county-wide solid waste management system. It is the opinion of the Branch County Solid Waste Management Planning Committee that the current solid waste management programs in use by the municipalities and townships are adequate. Branch County will continue to encourage programs sponsored by municipalities and other entities which provide for waste reduction, source separation, recycling, composting, and other programs which will assist Branch County in meeting its solid waste planning objectives and goals.

DEMOGRAPHICS

The following presents available data regarding 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.

Branch County is a rural county located in extreme south-central Michigan. The most recent data from the U.S. Census Bureau indicates the population of the County in 1990 was 41,502 persons. The largest city is the City of Coldwater with a current estimated population of 9,607. The most populous township is Coldwater Township with an estimated 1996 population of 5,027. Over 50 percent of the population of the County lives in the Coldwater - Quincy area. The rest of the population is evenly distributed throughout the rural townships in the County.

The civilian labor force is estimated to be 20,875 with 20,000 people employed in January 1998 and 875 unemployed or 4.2 percent. The percentages of the economic base of Branch County are estimated to be approximately less than 1% agricultural, 3% construction, 39% industrial, 58% commercial, and less than 1% other businesses (source: U.S. Dept. of Commerce, Bureau of Census, County Business patterns, 1989-1995). The population estimate of the townships for 1996, as reported in the Housing Market Study for Branch County, 1998, by McKenna Associates Inc. are as follows:

Algansee Twp.	1964
Batavia Twp.	1607
Bethel Twp.	1350
Bronson City	2388

Bronson Twp.	1297
Butler Twp.	1258
California Twp.	842
Coldwater City	9568
Coldwater Twp.	5027
Gilead Twp.	727
Girard Twp.	1901
Kinderhook Twp	1365
Matteson Twp.	1301
Noble Twp.	506
Ovid Twp.	2222
Quincy Twp.	4146
Sherwood Twp.	2432
Union Twp.	3090
Total, Branch County, 1996	***42,991***

Population projections for Branch County as reported in the Housing Market Study for Branch County, Michigan, 1998 by McKenna Associates Inc. are as follows:

Year	Population
2000	43,800
2005	44,900
2010	46,100
2015	47,200

The population projections indicate steady growth in Branch County, at about 2.4% growth every 5 years. The Branch County Economic Growth Alliance has reported that in 1992 42 new incorporations were reported in Branch County, while the statewide median for this statistic was 68. The incorporation rate in 1992 was reported to be 101 (incorporations per 100,000 population), while the statewide median was 183.

Based on the above demographic data, the population and economic growth projected indicates that there will likely be no significant increase in solid waste generated in Branch County.

LAND DEVELOPMENT

The following describes current and projected land development patterns, as related to the Selected Solid Waste Management System.

The Housing Market Study for Branch County, Michigan, 1998, by McKenna Associates Inc. indicates that the development trend for Branch County in the 1990's has been toward "urban sprawl". The McKenna Associates Inc. report states that due to the limited available housing market and limited family incomes, development in the current population centers of Coldwater, Bronson, Quincy, and Union must occur for growth in the county to occur at its current pace. Expansion of existing solid waste management services within the population centers should facilitate management of increased volumes of solid waste.

McKenna Associates Inc. also reports that 2,700 to 3,000 new jobs may be created in Branch County over the next 5 years, with a potential associated population growth of 1,800 to 2,700 persons. If such economic growth occurs, proportionate increases of solid waste generation may occur in connection with the affected commercial and/or industrial businesses. Again, expansion of the existing solid waste management infrastructure, coupled with public and private reduction and recycling efforts, should adequately manage the solid waste generated within Branch County within this planning period.

SOLID WASTE MANAGEMENT ALTERNATIVES

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

Alternative #1: Landfilling Within the County

Landfills are still a necessary component of any solid waste management system. There are wastes that cannot be recycled or composted that must be handled. Even incineration produces ash and air pollution control sludges that require disposal in special monofil cell at the landfill.

Part 115 established two types of landfills for non-hazardous wastes. A Type III landfill can accept building demolition material, and other materials designated as inert by the Director of the Department of Natural Resources. Type III landfills do not require liners under Part 115. They can accept building demolition materials, wood, brush, and other material designated by the Director of the Department of Natural Resources. The material they receive has less of a potential to contaminate groundwater and, therefore, the requirements are less strict. Type III disposal facilities also require a groundwater monitoring system although not as extensive as a Type II landfill.

A Type II landfill can accept municipal and industrial non-hazardous waste. They are required by law to have a barrier of plastic, clay, or a combination thereof. The barrier is designed to intercept leachate, contaminated liquid that is produced when rainfall percolates through refuse. The leachate is collected for treatment and proper disposal to prevent contamination of ground and surface water. Type II landfills also have complex groundwater monitoring systems and quarterly sampling of groundwater wells and are currently the most economical and reliable method for solid waste disposal.

The disadvantages of an in-county landfill are the long term risks of groundwater contamination. It is a fact that sanitary landfills, when closed, require maintenance in the form of leachate collection, disposal and protective cap maintenance. Ground settlement, liner failure and methane gas control are also long term problems that may require attention.

The Branch County Solid Waste Management Committee has evaluated the advantages and disadvantages of the siting of a landfill within Branch County. Because there are currently no licensed landfills within the County, considerable planning and expense would be incurred in

required land acquisition, environmental assessments, permitting, operation, maintenance, and ongoing monitoring in connection with any proposed landfill. There are currently no funding mechanisms for such expenditures. Although siting a landfill in Branch County would provide the County greater control over solid waste disposal, continued use of the existing system of transferring of solid waste (as described in the following section) within the 10-year planning would be less burdensome to the residents of Branch County, and would still adequately manage the future solid waste disposal needs of the County.

Alternative #2: Transferring of Waste

Transferring of Waste

Transferring of waste is the present waste management alternative practiced in Branch County. All solid waste produced in Branch County is either direct hauled to out-of-county or out-of-state landfills or to transfer stations where the waste is compacted and then exported for disposal.

The transferring of solid waste is a reliable and proven technology. Reserve trucking is all that is required for assurance that the system will work as long as there is a landfill that will accept the waste. Transferring solid waste may also include size reduction such as shredding, compacting or bailing the waste but these are optional. However, it can have an impact on transportation and disposal cost, particularly if the final disposal facility is a long distance.

Based on review of the solid waste generation rates, demographic data, competitive out-of-county waste disposal rates, competitive hauling rates, and ample out-of-county landfill space, this current waste management practice adequately manages the solid waste generated within the County, with the least financial burden to County residents. Landfill and hauler vendors presently compete for business within the County, thereby providing greater opportunities for service at competitive costs

In addition to the selected system of solid waste transfer, source reduction, recycling, and composting will be encouraged within Branch County. The following are general descriptions of such activities.

Source Reduction

This technology is aimed at reducing the amount of waste generated. It includes buying quantities in bulk to reduce the amount of packaging, and also selecting products that contain less packaging or recyclable packaging. The manufacturing industry must begin to change their production processes to produce less waste and find new ways to reuse the waste that is produced. The public must also strive to reuse as much potential waste as possible in an attempt to reduce Branch County's waste stream by 5% in this five-year update period.

Educational efforts aimed at waste reduction must also occur. The County will support legislation that require the manufacturers to provide economical, safe, and recyclable packaging. The public must also demand that the industry seek new technologies to decrease the amount of waste in consumer packaging.

This activity cannot by itself solve the solid waste management problem but legislation and education, if fully implemented, could potentially reduce the amount of waste produced in the county toward our goal of 5% reduction.

Recycling

Recycling has become an important solid waste management component. A survey conducted in St. Joseph County in 1986 showed that 85 percent of the public favored recycling compared to other waste management alternatives. In practice, it is more difficult to get the public to participate in a voluntary recycling project. One of the major obstacles to the initiation of recycling projects is that other systems such as landfills have been institutionalized and their funding mechanisms are well established either by user fees or taxes.

The main materials that are currently being recycled are: aluminum, newsprint, corrugated paper, glass, plastic milk jugs, tin cans and used motor oil. Markets are established and fairly reliable for these materials.

The major advantages to recycling are: 1) It saves natural resources. This is especially true in scarce materials such as aluminum. 2) It saves energy. Less energy is required to produce newsprint from recycled fibers that to cut and process virgin timber for the same newsprint. 3) It conserves landfill space. In the future as landfill space is less available and tipping fees escalate recycling will have a better economic advantage. 4) It gives the individual more control over their waste management options.

The major disadvantages to recycling are: 1) Markets fluctuate making revenues uncertain. 2) It can compete with incineration for materials that have a high BTU value such as newsprint and corrugated paper. 3) Funding mechanisms are not well established. 4) It is currently more expensive in the short term than landfilling. 5) There are sociological barriers to get a large segment of the public to participate.

There are four main recycling systems: 1) Drives, such as paper drives are usually sponsored by civic organizations or churches and are held monthly. They are sporadic at best and usually function well when the economic incentives are high. 2) Established drop-off centers are generally inexpensive to build and operate. They have the advantage of permanence and are, therefore, more reliable than drives, but participation is on a voluntary basis. They are not currently self supporting so a funding mechanism will have to be set up. 3) Curbside pick-up works well in high density population areas and is especially effective if there is mandatory recycling or an economic incentive to recycle. They also are not self supporting and a funding mechanism will have to be established. 4) Recycling at the landfill is especially effective for some industrial and commercial wastes such as corrugated paper, but they are not presently effective for mixed municipal waste.

Composting

Composting is the biological degradation of organic materials to a humus like material that can be used as a soil conditioner. Composting is only applicable to organic waste such as leaves, grass clippings and the garbage component of the waste stream. When such wastes are mixed in aerobic (with air) conditions, microorganisms breakdown complex organic material to humic and furic acids that enhance plant growth.

Composting occurs when waste such as leaves and grass clippings are applied in rows from 4 to 20 feet high and mixed with a source of nitrogen. As thermophillic bacterial action takes place the compost is heated to temperatures as much as 170 degrees Fahrenheit, destroying the pathogens and weed seedling in the material. The material is then aerated by windrow turning to allow oxygen to enter the pile. The turning process is repeated several times a year until the material reaches a composted state that may take up to one year. Garbage from household refuse maybe composted but other materials must be separated from the organic fraction of the waste and grinding of the organic matter is required to achieve a uniform compost media.

Since composting addresses only a small but important portion of the waste stream it also cannot be considered a whole waste management alternative, but rather a compliment to other waste management alternatives. Composting can also assist in lowering landfill costs for the materials being composted, conserving landfill space and by producing a useful soil amendment product.

The major benefits to composting are the defrayed landfill costs, the saving of landfill space, the compost itself and the low environmental impact. It may also be used to complement another waste management practice such as sewage sludge disposal.

The major disadvantage to composting are the costs of monitoring and labor to achieve the desired results.

SECTION III

THE SELECTED SOLID WASTE MANAGEMENT SYSTEM

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

Specifically, the selected system consists of the transport of nonusable solid waste to approved landfills in other counties, and encouragement of the reduction and recycling of solid waste generated in Branch County. Branch County does not intend to site a landfill within its borders at this time. In fact, Branch County will continue to evaluate other solid waste management options prior to considering the placement of a landfill in Branch County. As such, no landfill siting criteria are included in this Plan.

Branch County has evaluated the current and anticipated future solid waste management practices, and had determined that the existing waste management infrastructure, available landfill space, and disposal market pricing will provide an adequate solid waste management system for the 5 and 10 year planning periods. In addition, ongoing encouragement of resource conservation efforts, to the extent practicable given limited available funding, will be conducted by the County in an effort to meet the solid waste reduction and recycling goals. To that end, the DPA will periodically communicate recycling and other solid waste management information gained through involvement in the Michigan Recycling Coalition to public and private entities in the County.

IM RT AUTHORIZATION

No licensed solid waste disposal area is currently operating within the County.

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]

[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 EX' 'TING COUNTY is authorized by the IMPORTING COUN' ıp to the AUTHORIZED QUANTITY according to the AU ı ı ORIZED CONDITIONS in Table 1-B.

There are no criteria for siting a solid waste disposal area in Branch County.

Table 1-B

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

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME[3]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[4]

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

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

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

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

Table 2-A
CURRENT EXPORT VOLUME AUTHORIZATION OF SOLID WASTE

IMPORTING COUNTY	EXPORTING COUNTY	FACILITY NAME[5]	AUTHORIZED QUANTITY/ DAILY	AUTHORIZED QUANTITY/ ANNUAL	AUTHORIZED CONDITIONS[6]
Barry	Branch				P
Berrien	Branch				P
Calhoun	Branch				P
Genessee	Branch				C
Hillsdale	Branch				P
Huron	Branch				C
Ionia	Branch				P
Kalamazoo	Branch				P
Lenawee	Branch			343,200 tons	P
Midland	Branch				C
Muskegon	Branch				C
Oakland	Branch				P
Ottawa	Branch			1,500,000 tons	C
Sanilac	Branch				C
Shiawassee	Branch				P
St. Joseph	Branch				P
Wayne	Branch				P
Washtenaw	Branch			500,000 yds³	P
Allen, IN	Branch			1,050,000 tons	P
Williams, OH	Branch				P

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

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

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

SOLID WASTE DISPOSAL AREAS

The following identifies the names of existing disposal areas which will be utilized to provide the required capacity and management needs for the solid waste generated within the County for the next five years and, if possible, the next ten years. Pages 19 through 32 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 with applicable permits and licenses located in counties sited in this Plan may be utilized. If this Plan update is amended to identify additional counties outside Branch 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.

Inventory of Existing Facilities

Transfer Stations

Currently all of the solid waste produced in Branch County is disposed of in out-of-county landfills via transfer stations and direct hauling. There are two transfer stations serving the County. The City of Coldwater has a transfer station currently operated by National Serv-All, Inc. The transfer station, which is located at 213 West Garfield Avenue, facility I.D. 12-000013, has received the License No. 8543. Ridge Road Transfer Station also services the Village and Township of Quincy.

Other counties with transfer stations which have been utilized by Branch County include Lenawee County (Rollin Township Transfer Station and Irish Hills Transfer Station) and Kalamazoo County (Cork Street Transfer Station).

Landfills

Of the counties identified in this Plan as approved importing counties, the following counties currently contain landfills available for the disposal of Branch County solid waste. Please note that the disposal of solid waste generated in Branch County is not limited to the named disposal facility in the respective counties listed below:

Barry County
City Environmental Services Landfill Inc., of Hastings

Calhoun County
C&C Landfill

Ionia County
Pitsch Sanitary Landfill

Lenawee County
Adrian Landfill

Oakland County
Eagle Valley Recycling and Disposal Facility

Ottawa County
Autumn Hills Recycling and Disposal Facility

Sanilac County
Tri City Recycling and Disposal Facility

Shiawassee County

Venice Park Recycling and Disposal Facility

St. Joseph County

Westside Recycling and Disposal Facility

Washtenaw County

Arbor Hills Landfill

Wayne County

Woodland Meadows Recycling and Disposal Facility

DATA BASE

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: City Environmental Services Landfill Inc., of Hastings
County: Barry Location: Town: 3W Range: 8N Section(s): 6

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

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

☐ Public ☒ Private Owner:

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

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

Foundry sand, fly ash, waste water sludges, trees and stumps.

Site Size:

Total area of facility property:	330	acres
Total area sited for use:	330	acres
Total area permitted:	48	acres
Operating:	19.5	acres
Not excavated:	28.5	acres
Current capacity:	5,000,000	☒ yds^3
Estimated lifetime:	10+	years
Estimated days open per year:	308	days
Estimated yearly disposal volume:	175,000	☒ tons

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Sanitary Landfill Type II
Facility Name: Arbor Hills Landfill
County: Washtenaw Location: Town: _____ Range: _____ Section(s): _____

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

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

☒ Public ☐ Private Owner: BFI Waste Systems of North America, Inc.

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

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

Non-hazardous solid and semi-solid wastes, no hazardous or liquid wastes.

Site Size:

Total area of facility property:	936	acres
Total area sited for use:	356	acres
Total area permitted:	217	acres
Operating:	113	acres
Not excavated: (not constructed)	104	acres

Current capacity: 30,500,000 tons or ☒ yds^3 Airspace or 61.5 million cubic yards of capacity

Estimated lifetime:	176	years
Estimated days open per year:	265	days
Estimated yearly disposal volume:	3,500,000	tons or ☒ yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	18	megawatts
Waste-to-energy incinerators:	____	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Pitsch Sanitary Landfill
County: Ionia Location: Town: _____ Range: _____ Section(s): _____

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

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : _____
☐ Public ☒ Private Owner: Pitsch Companies

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

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

Site Size:			**Proposed Expansion**
Total area of facility property:	143.5	acres	
Total area sited for use:	28.36	acres	41.28 acres
Total area permitted:	78.44	acres	
Operating:	9.87	acres	
Not excavated:	70	acres	
Current capacity:	415,000	yds^3	4,500,000 yds^3
Estimated lifetime:	5	years	22 years
Estimated days open per year:	307	days	
Estimated yearly disposal volume:	83,000	☒ tons or ☐ yds^3	

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Adrian Landfill
County: Lenawee Location: Town: 7,8 S Range: 4 E Section(s): 6,7

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

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : _____
☐ Public ☒ Private Owner: Great Lakes Waste Services

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☒ other: _____

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

Site Size:

Total area of facility property:	421	acres
Total area sited for use:	287	acres
Total area permitted:	40	acres
Operating:	19	acres
Not excavated:	20	acres

Current capacity:	2,002,000	yds^3
Estimated lifetime:	6.8	years
Estimated days open per year:	307	days
Estimated yearly disposal volume:	97,731	☒ tons or ☐ yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	20,148	megawatts
Waste-to-energy incinerators:	_____	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Autumn Hills Recycling and Disposal Facility
County: Ottawa Location: Town: 5 N Range: 14 W Section(s): 36

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

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes : _____
☐ Public ☒ Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☒ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☒ other: Solidification/Yard Waste

* Explanation of special wastes, including a specific list and/or conditions: Foundry sand, sludges, fly ash, etc.

Site Size:

Total area of facility property:	214	acres
Total area sited for use:	197	acres
Total area permitted:	99.3	acres
Operating:	55.1	acres
Not excavated:	64.2	acres
Current capacity:	20.75	yds^3
Estimated lifetime:	30.2	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	500,000	☒ tons or ☐ yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Westside Recycling and Disposal Facility
County: St. Joseph Location: Town: 6 S Range: 12 W Section(s): 26

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

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

☐ Public ☒ Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☒ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☒ other: _____

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

Site Size:

Total area of facility property:	640	acres
Total area sited for use:	490	acres
Total area permitted:	85	acres
Operating:	51	acres
Not excavated:	34	acres

Current capacity:	6,430,000	yds^3
Estimated lifetime:	12	years
Estimated days open per year:	300+	days
Estimated yearly disposal volume:	1,200,000+	yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	2	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Woodland Meadows Recycling and Disposal Facility
County: Wayne Location: Town: 3 S Range: 8 E Section(s): 1

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

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

☐ Public ☒ Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☒ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☒ other: _____

* Explanation of special wastes, including a specific list and/or conditions: Sludges, provided they are at least 30% solids

Site Size:

Total area of facility property:	214	acres
Total area sited for use:	214	acres
Total area permitted:	148	acres
Operating:	70	acres
Not excavated:	78	acres

Current capacity:	26,520,800	yds^3
Estimated lifetime:	19.8	years
Estimated days open per year:	305	days
Estimated yearly disposal volume:	1,340,200	yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	400,000	megawatts
Waste-to-energy incinerators:	_____	megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: C&C Landfill
County: Calhoun Location: Town: _ Range: __ Section(s): __

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

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

☒ Public ☐ Private Owner: BFI Waste Systems of North America, Inc.

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☐ other: _____

* Explanation of special wastes, including a specific list and/or conditions: Non-hazardous solid and semi-solid wastes, no hazardous or liquid wastes.

Site Size:

Total area of facility property:	223	acres
Total area sited for use:	154	acres
Total area permitted:	129	acres
Operating:	33	acres
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:	1,000,000	yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	3	megawatts
Waste-to-energy incinerators:		megawatts

FACILITY DESCRIPTIONS

Facility Type: Type II Landfill
Facility Name: Tri City Recycling and Disposal Facility
County: Sanilac Location: Town: 12 N Range: 15 E Section(s): 32

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

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

☐ Public ☒ Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☒ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☐ other: _____

* Explanation of special wastes, including a specific list and/or conditions: Paper pulp, shredded foam, food product waste

Site Size:

Total area of facility property:	195.4	acres
Total area sited for use:	195.4	acres
Total area permitted:	125	acres
Operating:	31.6	acres
Not excavated:	93.4	acres

Current capacity:	10,780,000	yds^3
Estimated lifetime:	22	years
Estimated days open per year:	272	days
Estimated yearly disposal volume:	330,000	☐ tons or ☒ yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Non-Hazardous Recycling and Disposal Facility
Facility Name: Eagle Valley Recycling and Disposal Facility
County: Oakland Location: Town: 4 N Range: 10 E Section(s): 26,27,35

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

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

☐ Public ☒ Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)
- ☒ open
- ☐ closed
- ☐ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☐ other: _____

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

Site Size:

Total area of facility property:	330	acres
Total area sited for use:	330	acres
Total area permitted:	89	acres
Operating:	75.7	acres
Not excavated:	7.8	acres
Current capacity:	4,800,000	yds^3
Estimated lifetime:	5.5	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	870,000	yds^3

(if applicable)
Annual energy production:

Landfill gas recovery projects:	233,000	MMBtu/Year gas sale 1998
Waste-to-energy incinerators:	_____	megawatts

FACILITY DESCRIPTIONS

Facility Type: Non-Hazardous Recycling and Disposal Facility
Facility Name: Venice Park Recycling and Disposal Facility
County: Shiawassee Location: Town: 7 N Range: 4 E Section(s): 27

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

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

☐ Public ☒ Private Owner: Waste Management of Michigan, Inc.

Operating Status (check)
- ☒ open
- ☐ closed
- ☐ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☒ contaminated soils
- ☒ special wastes *
- ☒ other: Non-hazardous liquids for solidification

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

Site Size:

Total area of facility property:	331	acres
Total area sited for use:	80	acres
Total area permitted:	69	acres
Operating:	41	acres
Not excavated:	2.5	acres

Current capacity:	1,300,000	yds^3
Estimated lifetime:	2.5	years
Estimated days open per year:	286	days
Estimated yearly disposal volume:	526,000	yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Class B Transfer Station and Compost Facility
Facility Name: Irish Hills Transfer Station
County: Lenawee Location: Town: 5 S Range: 2 E Section(s): 7

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

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

☐ Public ☒ Private Owner: Larry K. Wibbeler

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

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

Site Size:

Total area of facility property:	3	acres
Total area sited for use:	1.5	acres
Total area permitted:	3	acres
Operating:	3	acres
Not excavated:	____	acres
Current capacity:	____	yds^3
Estimated lifetime:	____	years
Estimated days open per year:	120	days
Estimated yearly disposal volume:	2,000	yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Class B Transfer Station
Facility Name: Rollin Township Transfer Station
County: Lenawee Location: Town: 6 S Range: 1 E Section(s): _

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

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

☒ Public ☐ Private Owner: Rollin Township

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

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

Site Size:

Total area of facility property:	5	acres
Total area sited for use:	____	acres
Total area permitted:	____	acres
Operating:	____	acres
Not excavated:	____	acres
Current capacity:	____	yds^3
Estimated lifetime:	____	years
Estimated days open per year:	52	days
Estimated yearly disposal volume:	____	yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Class B Transfer Station
Facility Name: Ridge Road Transfer Station
County: Branch Location: Town: 6S Range: 5W Section(s): 20-29

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

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes: National ServAll, 6231 MacBeth Road, Ft. Wayne, Allen County, Indiana

☐ Public ☒ Private Owner: National ServAll

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☐ residential
- ☐ commercial
- ☐ industrial
- ☒ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☐ other: _____

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

Site Size:

Total area of facility property:	15	acres
Total area sited for use:	10	acres
Total area permitted:	15	acres
Operating:	10	acres
Not excavated:	5	acres
Current capacity:	____	yds^3
Estimated lifetime:	____	years
Estimated days open per year:	200	days
Estimated yearly disposal volume:	960	yds^3

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Transfer Station
Facility Name: Coldwater Transfer Station
County: Branch Location: Town: 6S Range: 6W Section(s): 28

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

If facility is an Incinerator or a Transfer Station, list the final disposal site and location for Incinerator ash or Transfer Station wastes :National ServAll, 6231 MacBeth Road, Ft. Wayne, Allen County, Indiana

☐ Public ☒ Private Owner: National ServAll

Operating Status (check)
- ☒ open
- ☐ closed
- ☒ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☒ industrial
- ☒ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☐ other: _____

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

Site Size:

Total area of facility property:	80	acres
Total area sited for use:	40	acres
Total area permitted:	40	acres
Operating:	40	acres
Not excavated:	_____	acres
Current capacity:	_____	tons/yds^3
Estimated lifetime:	_____	years
Estimated days open per year:	250	days
Estimated yearly disposal volume:	28,800	tons

(if applicable)
Annual energy production:

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

FACILITY DESCRIPTIONS

Facility Type: Transfer Station
Facility Name: Cork Street Transfer Station
County: Kalamazoo Location: Town: _____ Range: _____ Section(s): _____

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

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

☐ Public ☒ Private Owner: BFI Waste Systems

Operating Status (check)
- ☒ open
- ☐ closed
- ☐ licensed
- ☐ unlicensed
- ☐ construction permit
- ☐ open, but closure
- ☐ pending

Waste Types Received (check all that apply)
- ☒ residential
- ☒ commercial
- ☐ industrial
- ☐ construction & demolition
- ☐ contaminated soils
- ☐ special wastes *
- ☐ other: _____

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

Site Size:

Total area of facility property:	2.8	acres
Total area sited for use:	2.8	acres
Total area permitted:	2.8	acres
Operating:	2.8	acres
Not excavated:	_____	acres
Current capacity:	1300	yds^3
Estimated lifetime:	_____	years
Estimated days open per year:	304	days
Estimated yearly disposal volume:	400,000	yds^3

(if applicable)
Annual energy production:

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

SOLID WASTE COLLECTION SERVICES AND TRANSPORTATION

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

The County has public and private entities which provide adequate collection services throughout the whole county. The City of Coldwater operates a refuse system which only services residential accounts. The City of Bronson utilizes Hand's Garbage Service for residential property and a variety of Commercial vendors. Private firms provide collection services to the remainder of the county

The solid waste collection services and transportation infrastructure will continue to operate as described in Section II. The current system is cost-efficient and effective. Communities and private entities are encouraged to continue to offer curbside recycling and composting programs as part of the waste hauling operations, or through drop-off facilities. The transportation infrastructure currently in place should be adequate throughout the 5 and 10 year planning periods.

RESOURCE CONSERVATION EFFORTS

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

Effort Description	**Est. Diversion Tons/Yr**		
	Current	5 yr	10 yr
[1]Household hazardous waste, batteries, and oil filters	424	488	561
[2]Composing Programs	11,000	12,100	13,210
[1]Scrap Metal Recycling	3,000	3,450	3,968
[1]Paper and Cardboard Recycling Programs	1,000	1,150	1,322
Miscellaneous (glass, plastic, aluminum) Recycling	Unknown	Unknown	Unknown

[1] Goal of 15% increase per planning period.
[2] Goal of 10% increase per planning period.

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

WASTE REDUCTION, RECYCLING, & COMPOSTING PROGRAMS

Volume Reduction Techniques

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

Technique Description	Est. Air Space Conserved yds^3/Yr		
	Current	5th yr	10th yr
Waste Compaction	Unknown	----	----
Yard Waste Diversion	Unknown	----	----

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

Overview of Resource Recovery Programs

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

Branch County is committed to reducing its solid waste stream by 20% through recycling, composting, and waste reduction.

The City of Coldwater and the County, with participation from private gas stations, maintain oil recycling stations that are open to the public. Ferrous metals are recovered for recycling at all three transfer stations and the county Highway Commission recycles car and truck batteries. The City of Bronson also has a small recycling facility that is operated by the local Kiwanis club. They accept newspaper, aluminum and glass. The Cities of Coldwater and Bronson and the Villages of Quincy and Union City also offer annual leaf pick up.

☒ 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:

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

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

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

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

RECYCLING AND COMPOSTING

The following is a brief analysis of the recycling and composting programs selected for the County in this Plan. Additional information on operation of recycling and composting programs is included in Appendix A. The analysis covers various factors within the County and the impacts of these factors on recycling and composting. Following the written analysis the tables on pages 38 to 40 list the existing recycling, composting, and source separation of hazardous materials programs that are currently active in the County and which will be continued as part of this Plan. The second group of three tables on pages 41 to 43 list the recycling, composting, and source separation of hazardous materials programs that are proposed in the future for the County. It is not this Plan update's intent to prohibit additional programs or expansions of current programs to be implemented beyond those listed.

Recycling

At present, Branch County administers no recycling programs. The two major impediments to instituting a recycling program are costs and social change. At this point in time, it is not economical to institute curbside recycling in the County. The cost estimates for the City of Coldwater to institute a curbside program are $5.00 a ton higher than the present cost of disposal of the material excluding the capital costs of a facility and equipment. The costs in the rural area would be much higher. The one thing that would encourage recycling throughout the state would be higher landfill tipping costs. Present landfill costs vary from $13.50 to $14.25 per ton in landfills that serve Branch County. Until the tipping fee reaches at least $20 per ton, recycling will be at an economic disadvantage.

The second major impediment to recycling is social change. This can only be accomplished through having a recycling facility in place and education of the public. It is relatively easy to separate recyclables from the individual's waste stream, but this requires an extensive educational effort to reach the public. Although surveys indicate that recycling is one of the most acceptable waste management options, the public will have to be given the specifics and a easy method to make recycling a part of their everyday lives.

Branch County will continue to encourage educational efforts and public and private recycling programs. As such, the DPA has joined the Michigan Recycling Coalition to obtain information regarding educational and recycling programs. Select information gained from the Michigan Recycling Coalition will periodically be communicated to public and private entities through newspaper and/or other periodical flyers.

Composting

There are currently no composting programs administered by the County. Certain cities, villages, and townships within the County have successfully implemented composting programs to deal with compost materials. These local governments have not reported any significant problems with the existing composting programs. Branch County encourages the educational and informational efforts by these entities, and anticipates ongoing increases in composting volumes with this planning period.

TA E III-1

RECYCLING:

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Coldwater Transfer Station	City of Coldwater Branch County	Private	d	d	A, E, F	5	5	5
Quincy Transfer Station	Quincy Township Branch County	Public	d	d	A, B, C, D, F	Quincy Township	Quincy Township	Quincy Township
Bronson Kiwanis Club Recycling	City of Bronson Branch County	Private	d	d	B, D, F	5	5	5
Union City - First Congregational Church	Union City Branch County	Private	d	w	A, E, F	5	5	5
Caudill Scrap Metal	Bethel Township Branch County	Private	d	d	F, L1, L2	5	5	5
Coldwater Recycling Program	City of Coldwater Branch County	Public and Private	d	d	L1	3	3	3
Yesh Scrap Metal	Sherwood Township	Private	d	d	F	5	5	5
St. Mary's School	City of Bronson Branch County	Private	0	Sp, Su, Fa	B	5	5	5
Doug's Auto	Branch County	Private	d	d	F, L1	5	5	5

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

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

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

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

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

5 Identified by the materials collected by listing of the letter located by that material type. A = Plastics; B = Newspaper; C = Corrugated Containers; D = Other Paper; E = Glass; F = Metals; P = Pallets; J = Construction/Demolition; K = Tires; L1 = Batteries; L2 = Appliances

COMPOSTING:

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
City of Coldwater Composting	City of Coldwater Branch County	Public	c, d	Fa, W, Mo-Su	Leaves Brush	3	3	3
Village of Quincy	Village of Quincy Branch County	Public	c,d	Fa,Sp	Leaves Brush	3	3	3
City of Bronson	City of Bronson Branch County	Public	c,d	Fa,Sp	Leaves Brush	3	3	3
Union City	Union City Branch County	Public	c,d	Fa,Sp	Leaves Brush	3	3	3

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

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

2 Identified by 1 = Designated Planning Agency; 2 = County Board of Commissioners; 3 = Department of Public Works; 4 = Environmental Croup (Identified on page 24); 5 = Private Owner/Operator; 6 = drop-off; o = onsite; and if other, explained.

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

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

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

SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS:

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

Program Name	Service Area[1]	Public or Private	Collection Point[3]	Collection Frequency[4]	Materials Collected[5]	Program Management Responsibilities[2] Development	Operation	Evaluation
Household Hazardous Waste Collection	City of Coldwater	Public	d	Annual	Household Hazardous Waste	3	3	3
City-wide Clean-up	City of Coldwater	Public	c	Annual	Miscellaneous	3	3	3
Recycling Program	City of Coldwater	Public	d	d	Used Oil Oil Filters Antifreeze	3	3	3
Battery Recycling	Bethel Township	Private	d	d	Batteries	5	5	5
Battery Recycling	Doug's Auto Branch County	Private	d	d	Batteries	5	5	5
Battery Recycling	Caudill Scrap Metal Branch County	Private	d	d	Batteries	5	5	5

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

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

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

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

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

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

PROPOSED RECYCLING: *None*

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

☐ 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 Croup (Identified on page 24); 5 = Private Owner/Operator; 6 = drop-off; o = onsite; and if other, explained.

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

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

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

PROPOSED COMPOSTING: *None*

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

☐ 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 Croup (Identified on page 24); 5 = Private Owner/Operator; 6 = drop-off; o = onsite; and if other, explained.

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

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

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

T[illegible]E III-6

PROPOSED SOURCE SEPARATION OF POTENTIALLY HAZARDOUS MATERIALS: *None*

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

☐ 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 Croup (Identified on page 24); 5 = Private Owner/Operator; 6 = drop-off; o = onsite; and if other, explained.

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

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

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

IDENTIFICATION OF RESOURCE RECOVERY MANAGEMENT ENTITIES:

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

Environmental Groups:

The Branch County Solid Waste Management Planning Committee (Committee), as appointed by the Branch County Board of Commissioners, is responsible for assisting the Branch County Board of Public works, which is the designated planning agency (DPA). The Committee is responsible for developing and updating this Plan, and will convene on an as-needed basis to deal with solid waste management issues, as requested by the DPA.

Members of the Committee involved in the Michigan Recycling Coalition will disseminate pertinent information to the DPA, the Committee, and public and private entities within the county on an on-going basis in support of the solid waste management goals outlined in this Plan.

Other:

The Branch County Board of Commissioners has ultimate authority over and assistance from the Committee and DPA in connection with resource recovery and recycling programs. At present, because no specific funding mechanisms exist, there are no specific programs administrated by the County in this regard.

Other entities, including but not limited to those entities listed in this Plan, are encouraged to continue and expand existing resource recovery and recycling efforts.

ROJECTED DIVERSION RATES:

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

Resource recovery programs are not administered by Branch County. Inadequate documentation has been provided by the municipal and private entities which administer such programs. As such, diversion rates cannot be estimated.

ollected Material:	Projected Annual Tons Diverted:			Collected Material:	Projected Annual Tons Diverted:		
	Current	5th Yr	10th Yr		Current	5th Yr	10th Yr
TOTAL PLASTICS:				G. GRASS AND LEAVES:			
NEWSPAPER:				H. TOTAL WOOD WASTE:			
CORRUGATED CONTAINERS:				I. CONSTRUCTION AND DEMOLITION:			
TOTAL OTHER PAPER:				J. FOOD AND FOOD PROCESSING:			
TOTAL GLASS:				K. TIRES:			
OTHER MATERIALS:				L. TOTAL METALS:			
1				F3.			
2				F4			

AKET AVAILABILITY FOR COLLECTED MATERIALS:

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

Resource recovery programs are not administered by Branch County. Inadequate documentation has been provided by the municipal and private entities which administer such programs. As such, diversion rates cannot be estimated.

ollected aterial:	In-State Markets	Out-of-State Markets	Collected Material:	In-State Markets	Out-of-State Markets
TOTAL PLASTICS:			G. GRASS AND LEAVES:		
NEWSPAPER:			H. TOTAL WOOD WASTE:		
CORRUGATED CONTAINERS:			I. CONSTRUCTION AND DEMOLITION:		
TOTAL OTHER PAPER:			J. FOOD AND FOOD PROCESSING:		
TOTAL GLASS:			K. TIRES:		
OTHER MATERIALS:			L. TOTAL METALS:		
1			F3.		
2			F4.		

)UCATIONAL AND INFORMATIONAL PROGRAMS

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

'rogram Topic[1]	Delivery Medium[2]	Targeted Audience[3]	Program Provider[4]
	o, f	p, City of Coldwater	City of Coldwater
	o, f	p, City of Coldwater	City of Coldwater
	o, f	p, City of Coldwater	City of Coldwater
,4	w	S	Branch Area Careers Center
	w, o	p, b, i, s	Michigan Recycling Coalition
,2	n, o	p, b, Village of Quincy	Village of Quincy
,2	n, o	p, b, City of Bronson	City of Bronson
	t, n	p, b, Union City	Union City

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

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

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

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

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

TIMETABLE FOR SELECTED SYSTEM IMPLEMENTATION

Since Branch County is relying on local governments and private entities with ongoing existing programs for the Selected System, no timeline for implementation is necessary.

SITING REVIEW PROCEDURES

Authorized Disposal Area Types

Since the County has demonstrated 10 years of disposal capacity available for all solid waste in the County and the service area authorized by this Updated Plan, no proposed solid waste disposal facility must be sited (found consistent with) under this Update. If a proposal is submitted to the County for consideration and 10 years of disposal capacity is documented, the County can declare the proposal inconsistent with the Updated Plan for Branch County after reviewing the proposal because 10 years of disposal capacity exists for Branch County. If this Plan is amended to include siting criteria, the County may review the proposal and declare the proposal inconsistent if it does not meet the requirements of the siting criteria. Or, the County may review the proposal and declare the proposal consistent with the Updated Plan for Branch County if it meets the requirements of the siting criteria.

Siting Criteria And Process

Because this Plan provides for 10 years of disposal capacity outside Branch County, no criteria for siting a solid waste disposal area in Branch County have been established

SOLID WASTE MANAGEMENT COMPONENTS

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

The Branch County solid waste system will be managed by a variety of agencies, individuals, and private interests. The Branch County Board of Commissioners has appointed the DPA to implement solid waste planning issues. The Committee advises and assists the DPA in solid waste planning.

There is no current or proposed funding mechanisms for solid waste planning by the County beyond development of this Plan Update. Specific programs administered by local governments and private entities, with encouragement of the County, will implement the activities outlined in this Plan.

IDENTIFICATION OF RESPONSIBLE PARTIES

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

Resource Conservation:

Source or Waste Reduction - local government entities, schools, businesses, and individuals

Product Reuse - local government entities, schools, businesses, and individuals

Reduced Material Volume - local government entities, schools, businesses, and individuals

Increased Product Lifetime - local government entities, schools, businesses, and individuals

Decreased Consumption - local government entities, schools, businesses, and individuals

Resource Recovery Programs:

Composting - local government entities, schools, businesses, and individuals

Recycling - local government entities, schools, businesses, and individuals. Through membership in the Michigan Recycling Coalition, the DPA will periodically communicate recycling information to the public

Energy Production - local government entities, schools, businesses, and individuals

Volume Reduction Techniques: local government entities, schools, businesses, and individual

Collection Processes: local government entities, schools, businesses, and individuals

Transportation: local government entities, schools, businesses, and individuals

Disposal Areas:

Processing Plants - N/A

Incineration - N/A

Transfer Stations - local government entities and private business

Sanitary Landfills - N/A

Ultimate Disposal Area Uses: DPA, Committee, local government entities, businesses, and individuals

Local Responsibility for Plan Update Monitoring & Enforcement: Branch County Board of Commissioners, DPA, Committee, and local police

Educational and Informational Programs: DPA, committee, local government entities, schools, businesses, and individuals

Documentation of acceptance of responsibilities is contained in Appendix D

LOCAL ORDINANCES AND REGULATIONS AFFECTING SOLID WASTE DISPOSAL

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

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

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

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

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

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

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

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

1. Certain ancillary construction details, such as landscaping and screening;
2. Hours of operation;
3. Noise, litter, odor and dust control;
4. Operation records and reports;
5. Facility security;
6. Monitoring of wastes accepted and prohibited; and
7. Composting and recycling.

☐ Additional listings are on attached pages.

CAPACITY CERTIFICATIONS

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

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

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

APPENDIX A

ADDITIONAL INFORMATION REGARDING THE SELECTED SYSTEM

EVALUATION OF RECYCLING

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

Direct benefits of recycling and composting include:

Defrayed tipping fee - with less material being landfilled there will be a lower total landfill cost and conservation of landfill space.

Lower transportation cost - A result of less trips to the landfill.

Preservation of natural resources - The demand on resources such as trees, petroleum, energy, land and minerals will be reduced.

Employment - the implementation of a recycling and composting program could increase employment in the county

Marketable product - The implementation of a composting program could provide a saleable topsoil product.

Indirect benefits of recycling and composting are more difficult to measure. They may include:

Public Health - Recycling and composting reduce potentially harmful impacts on groundwater and air due to landfill liner failure and air pollution from incineration. The public being more environmentally aware at this time demand that any waste management system must protect the public health.

Environmental impacts - Recycling and composting benefit the environment in two ways: they conserve natural resources and minimize the potential for ground and air pollution.

Economics - The potential economic benefits are an increase in employment in the area as a result of recycling and composting and a reduction in the amount or solid waste that is landfilled, thus reducing the overall cost of solid waste disposal.

Energy consumption - There is a net energy gain by recycling and composting. Less energy is required when utilizing recycled and composting. Less energy is required when utilizing recycled products that in the production materials from raw resources.

Reliability, Technical feasibility - It is advisable to use low technology systems in recycling. Proven methods require manual labor and reliable equipment such as Bobcats, bailers and conveyors.

Public acceptance - Surveys and public opinion polls show that recycling is a preferred system to deal with waste management.

DETAILED FEATURES OF RECYCLING AND COMPOSTING PROGRAMS:

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

The following table illustrates the potential for recycling and composting in Branch County in 2000. The table is based on Michigan Department of Environmental Quality data presented in the 1993 Plan Update, and projected solid waste generation rates as presented in Section II of this Plan.

Category	Percent of Solid Waste (Tonnage)	Amount Available for Recycling/Composting (tons/yr)
Total Paper	15.1	5,936
Glass	5.4	2,123
Ferrous	5.7	2,241
Plastics	3.7	1,454
Other	11.0	4,324
Total		16,078

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

Equipment Selection

Existing Programs: No County programs exist

Proposed Programs: None

Site Availability & Selection

Existing Programs: No County programs exist.

Proposed Programs: None

Composting Operating Parameters:

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

Existing Programs: *No programs are administered by the County.*

Program Name:	pH Range	Heat Range	Other Parameter	Measurement Unit

Proposed Programs: *None*

Program Name	pH Range	Heat Range	Other Parameter	Measurement Unit

COORDINATION EFFORTS:

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

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

Ultimate responsibility for the Branch County solid waste program rests with the Branch County Board of Commissioners. The DPA, with assistance by the Committee, is responsible for any specific plan implementation. Ongoing planning efforts regarding resource conservation and recycling efforts will be conducted by the DPA, as deemed necessary. However, no specific County programs exist. The committee will convene as requested by the DPA to assist with specific solid waste planning issues, and to update this Plan.

Specific local governments and businesses will continue to maintain arrangements with private solid waste transport, disposal, and recycling entities. Funding for existing programs will be entirely through the specific implementing entities. Enforcement of specific programs will be charged to the specific implementing entities. If necessary, enforcement of the portions of this Plan will be through local police agencies having jurisdiction, or through the Michigan Department of Environmental Quality, where applicable.

COSTS & FUNDING:

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

System Component[1]	Estimated Costs	Potential Funding Sources
Resource Conservation Efforts	N/A	N/A
Resource Recovery Programs	N/A	N/A
Volume Reduction Techniques	N/A	N/A
Collection Processes	N/A	N/A
Transportation	N/A	N/A
Disposal Areas	N/A	N/A
Future Disposal Area Uses	N/A	N/A
Management Arrangements	N/A	N/A
Educational & Informational Programs	N/A	N/A

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

Because no specific county programs or funding sources exist or are proposed, the above costs are not applicable. Individual businesses and government agencies manage some of the above components to various extents and costs.

EVALUATION SUMMARY OF THE SELECTED SYSTEM:

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

The Selected System entails the ongoing existing programs and activities conducted by governmental agencies, businesses, and individuals. Feedback obtained from local municipalities indicates that the existing system involving transport of solid waste, complimented with local recycling, composting, and resource recovery programs is sufficient to deal with the solid waste generated during this planning period. The available solid waste venders and transportation infrastructures provide adequate disposal capacities at competitive costs, while providing access for all county residents to the Selected System. The DPA and Committee have received little or no negative feedback from residents, business, or government agencies within the county regarding the Selected system.

The Selected System has been shown to be technically feasible, and cost effective. As indicated in the Plan, the County will encourage local groups and institutions to continue and expand existing resource recovery and recycling programs. Collected materials for recycling are generally in demand on an ongoing basis, depending on the local and national economy. No problems in connection with recycling efforts are foreseen within this planning period. Although the solid waste management goals outlined in this Plan may be less aggressive than those of the Michigan Solid Waste Policy, Branch County's goals are adequate for the solid waste generated, and the limited funding available.

ADVANTAGES AND DISADVANTAGES OF THE SELECTED SYSTEM:

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

ADVANTAGES:

1. The Selected System is a proven system and is accepted by the residents of Branch County

2. The Selected System is being implemented without additional fees of costs.

3. The local governmental entities are free to implement recycling programs to meet the needs of local businesses and residents.

4. Ample landfill space is available outside Branch County, and foreseen disposal costs are favorable to other disposal options.

5. Recycling, composting, and resource recovery programs are accessible to all County residents.

6. The absence of landfills in Branch County reduces the potential for pollution of the air, soil, and water in Branch County.

DISADVANTAGES:

1. There are no funding mechanisms to support County-administrated solid waste management programs.

2. The County is dependent on landfill space regulated by other counties.

3. The costs for transport, disposal, and recycling are dependent on economic factors beyond the control of Branch County.

4. Recycling and resource recovery efforts are conducted within the County on a voluntary basis.

APPENDIX B

NON-SELECTED SYSTEMS

NON-SELECTED SYSTEMS:

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

SYSTEM COMPONENTS:

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

RESOURCE CONSERVATION EFFORTS:

Implementation of resource conservation programs would require new fees, cost incentives, and a public infrastructure not currently in place in Branch County

VOLUME REDUCTION TECHNIQUES:

Volume reduction techniques, including but not limited to compacting, shredding, and incineration involve significant initial capital costs, and ongoing operation and maintenance While such operations are encouraged to be conducted by other entities, Branch County has no funding for such operations

RESOURCE RECOVERY PROGRAMS:

Resource recovery programs, such as battery recycling, are performed by certain governmental agencies and by businesses and individuals While such operations are encouraged, the costs for operating these programs preclude county-wide programs at this time

COLLECTION PROCESSES:

The collection of solid waste on a county-wide basis is not feasible. At present, local government entities and private haulers provide services to area residents in an efficient manner. No funding mechanisms exists for a county collection process. Significant capital costs of equipment, land, and operating costs preclude the implementation of such a program in Branch County at this time.

TRANSPORTATION:

Transportation costs for a county-wide solid waste collection system would cause such a proposal to be infeasible. The current infrastructure lends itself to the Selected System which serves the needs of residents on a "local" basis.

DISPOSAL AREAS:

The siting of a landfill in Branch county is not necessary, based upon the cost efficiency and availability of using disposal areas outside Branch County. Siting a landfill in Branch County would cost more to residents than the Selected System, and would require a government infrastructure and funding mechanism to operate any disposal area.

INSTITUTIONAL ARRANGEMENTS:

The siting of a landfill in Branch County would require significant institutional arrangements, including but not limited to creating funding mechanisms, obtaining permits, and creating a governmental infrastructure currently non existent

EDUCATIONAL AND INFORMATIONAL PROGRAMS:

Specific educational and informational programs would be necessary to implement county-wide resources recovery, recycling, or waste disposal programs. Successful implementation of these programs would require change in current waste management habits by residents of Branch County. The voluntary programs now available can be successful and can improve with the encouragement of the County

CAPITAL, OPERATIONAL, AND MAINTENANCE COSTS:

The Selected System requires no capital, operational, or maintenance costs on a county-wide basis. County-wide programs discussed elsewhere in this Plan would require some or all of these costs, and would not likely provide the same level of service available to County residents at current Selected System costs.

EVALUATION SUMMARY OF NON-SELECTED SYSTEM:

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

The non-selected system includes a solid waste management program administered by the County, which could include the following alternatives: (1) source reduction; (2) landfills; (3) recycling; (4) incineration; (5) composting; and (6) transferring of waste. The Selected System is the transfer of solid waste from Branch County to other landfills outside the County, complimented with locally-operated resource recovery and recycling programs. The public supports the Selected System, and no significant deficiencies have been reported. Implementation of the above alternatives, whether any single alternative or combinations of alternatives, would require significant initial capital costs, development of government and operating infrastructures, and public educational and informational efforts. Ongoing use of the Selected System has been deemed to be the most economical, environmentally responsible, and publicly supported system of solid waste management at this time in Branch County.

ADVANTAGES AND DISADVANTAGES OF THE NON-SELECTED SYSTEM:

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

ADVANTAGES:

1. Siting a landfill in Branch County would likely ensure available landfill space for many years.

2. Residents of the County would have more direct control over waste disposal costs.

3. Increased recycling, composting, and recovery could likely be realized with a county-implemented program.

DISADVANTAGES:

1. Siting a landfill in Branch County would be expensive and politically controversial.

2. The potential for pollution in the County increases with the operation of a landfill within its borders.

3. Residents would be forced to pay for waste disposal and recycling services, without regard to the extent of individual use of these services.

4. Residents would have available less options for waste disposal or recycling than what the current free market provides.

APPENDIX C

PUBLIC PARTICIPATION
AND
APPROVAL

PUBLIC PARTICIPATION AND APPROVAL

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

On October 20, 1997, the Branch County Board of Commissioners filed a Notice of Intent with the Michigan Department of Environmental Quality - Waste Management Division to prepare a solid waste management plan update. Subsequently, the Committee was activated to develop this Plan update.

PLANNING COMMITTEE

The Branch County Solid Waste Management Planning Committee (Committee) was appointed by the Branch County Board of Commissioners to assist the DPA in the preparation of the Update. The Committee is made up of the following members:

Solid Waste Management Industry
Chad Hardy, C&C Landfill
14800 P Drive North
Marshall, MI 49068

Frederick J. Lilue, Engineer, City of Coldwater
28 W. Chicago Street
Coldwater, Michigan 49036

Mike Sherfield, National Serv-All
3907 County Road 47
Auburn, Indiana 49706-9775

Ralph Finley, Hand's Garbage Service
336 Orland Road
Bronson, Michigan 49028

Environmental Interest Group
Terry Paul, Michigan United Conservation Club (MUCC)
744 State Road
Coldwater, Michigan 49036

Jim Tanner, Branch Environmental Security Team
551 North Briggs Road
Quincy, Michigan 49082

County Government
Ken Strong, Director of Public Works
Branch County Courthouse
31 Division Street
Coldwater, Michigan 49036

Lewie Uhrig, County Commissioner, As Liaison
Branch County Courthouse
31 Division Street
Coldwater, Michigan 49036

City Government
David Woodman, Wastewater Treatment Plant Superintendent
28 West Chicago Street
Coldwater, Michigan 49036

Township Government
Dan Showalter, Matteson Township Clerk
511 Matteson Lake Road
Bronson, Michigan 49028

Regional Solid Waste Planning Agency
Rand Bowman - Southcentral Michigan Planning Council, Executive Director
P.O. Box 2137
Portage, Michigan 49081-2137

General Public
John Swanson
195 Fairfield Drive
Coldwater, Michigan 49036

Clayton Roberts
3021 Treasure Lane
Coldwater, Michigan 49036

Gordon Porter
961 Central Road
Quincy, Michigan 49082

Industry Waste Generator
Ralph Ringle, Eckrich
75 East Montgomery Street
Coldwater, Michigan 49036

PUBLIC COMMENT PERIOD

The draft Plan was released for public comment on February 15, 1999, and the public comment period ended on May 17, 1999. There were no public comments received during this period. A public hearing was held at the Branch County Courthouse on April 13, 1999. There were no public comments regarding the Plan received during the public hearing. The Board of Commissioners subsequently approved the Plan on May 19, 1999.

DRAFT PLAN REVISIONS

Upon commencement of the public comment period, the draft Plan was also submitted to the MDEQ for preliminary review. On May 17, 1999, Ms. Melinda Keiller of the Solid Waste

Program Section of the MDEQ-Waste Management Division submitted comments regarding the draft Plan to American Hydrogeology Corporation, consultant for Branch County The MDEQ comments are included in this Appendix The draft Plan has been revised as recommended by the MDEQ, to the extent feasible and practicable

PLAN APPROVAL BY MUNICIPALITIES

Subsequent to Plan approval by the Board of Commissioners and revisions per the preliminary MDEQ comments, the draft Plan was submitted to all the municipalities within Branch County for their review and approval There were no written comments or suggested revisions received from any municipalities. As evidenced by the written acceptances included in this Appendix, nearly all municipalities (far in excess of 67%) within the County have approved the Plan to date

BOARD MEETING

BRANCH COUNTY BOARD OF COMMISSIONERS
MAY SESSION (SECOND DAY)

MAY 19, 1999

1/ The Board of Commissioners of the County of Branch met pursuant to adjournment in the Commissioners' room in the Courthouse on Wednesday May 19, 1999.

Chairman Sargent called the meeting to order at 7:00 p.m.

Present: Commissioners Uhrig, Keith, Rubley, Storrs, Schorfhaar, Mitoska, Sargent, Administrator Duke Anderson and Deputy County Clerk Nora Fair.
Absent: Commissioner MacDonald.

Commissioner Keith led the Board in the Pledge of Allegiance.

Additions: Nominations/Appointments – Address Ordinance Board of Appeals.
Deletions: Courts & Public Safety Committee Reports

2/ Motion by Commissioner Storrs seconded by Commissioner Schorfhaar, that the agenda be approved as amended. MOTION CARRIED.

3/ Motion by Commissioner Schorfhaar seconded by Commissioner Uhrig, that the May 5, 1999 Board minutes be approved as presented. MOTION CARRIED.

4/ During public comment Marie Ruemenapp introduced April Freed who was hired by MSU Extension under a Family Independence Agency contract as Family Outreach Coordinator. Ms. Ruemenapp asked for the Board's concurrence with the appointment of Ms. Freed, whereupon Commissioner Uhrig supported by Commissioner Rubley moved the Board concur with the said appointment. MOTION CARRIED.

5/ Motion by Commissioner Storrs seconded by Commissioner Keith, that the bills and accounts in the amount of $200,840.41 be approved and paid. MOTION CARRIED.

6/ Motion by Commissioner Schorfhaar seconded by Commissioner Uhrig, that authorization be given to AFLAC to market their supplemental insurance to the employees of Branch County. MOTION CARRIED.

7/ Motion by Commissioner Schorfhaar seconded by Commissioner Storrs, that authorization be given to the Commission on Aging to advertise for two new positions, one temporary part-time and one permanent part-time, at grade level 01, funding to be provided by the Area Agency on Aging Region III-C. MOTION CARRIED.

8/ Motion by Commissioner Schorfhaar seconded by Commissioner Mitoska, that authorization be given to advertise for the Management Information System Specialist position, on the Salaries/Management Uniform Salary Scale, grade level M2, pay range ($14.66 - $18.32 per hour). MOTION CARRIED.

9/ Motion by Commissioner Schorfhaar seconded by Commissioner Storrs, that authorization be given to the Land Resource Center to employ the appropriate parties for the implementation of the Address Ordinance, funding to be determined by line item transfers by the Finance Committee. MOTION CARRIED.

10/ Commissioner Uhrig apprised the Board of the Special House Committee meeting, which was held May 7, 1999 for the purpose of opening sealed bids for the renovation of the Human Services building.

11/ Motion by Commissioner Storrs seconded by Commissioner Schorfhaar, that authorization be given to approve the line item transfers as submitted. Copies on file in the Administrator's office. MOTION CARRIED.

12/ Commissioner Uhrig introduced Ernest Baker, Animal Control Officer, who presented the 1998 Annual Report of his department. Discussion was held regarding the need for an additional officer for the Animal Control Department. Commissioner Schorfhaar requested the Personnel Committee to revisit Mr. Baker's request for more help.

13/ Motion by Commissioner Uhrig seconded by Commissioner Rubley, that the 1998 Annual Report for Animal Control be accepted and placed on file in the County Clerk's office. MOTION CARRIED

14/ Commissioner Uhrig introduced Robert Olds, Cecil Paradine, and Merle Donbrock, Road Commission members and Richard Losinski, Road Commission Manager. Mr. Losinski presented the 1998 Annual Report of the Road Commission. Commissioner Storrs and Uhrig each complimented and thanked the Road Commission on the fine job they do keeping the County roads in good shape

15/ Mr. Losinski also presented the 1998 Annual Report of the Parks Department.

16/ Motion by Commissioner Uhrig seconded by Commissioner Rubley, that the 1998 Annual Report for the Road Commission and the 1998 Annual Report for the Parks Department be accepted and placed on file in the County Clerk's office. MOTION CARRIED

17/ Motion by Commissioner Storrs seconded by Commissioner Uhrig, to suspend Board rules to allow appointments to be made at this meeting to the Address Ordinance Appeals Board. MOTION CARRIED.

18/ Motion by Commissioner Storrs seconded by Commissioner Schorfhaar, that the following appointments be made to the Address Ordinance Appeals Board for the terms beginning June 1, 1999 and ending May 31, 2004:

Betty Blair, 450 Gerald St., Quincy, representing the Northeast quadrant of the County.
Christopher Briggs, 1020 Wattles Rd., Sherwood, representing the Northwest quadrant of the County.
William Orris, 439 Sarah Lane, Coldwater, representing the Southeast quadrant of the County.
Robert Massey, 1029 Block Rd., Bronson, representing the Southwest quadrant of the County.

MOTION CARRIED.

19/ Chairman Sargent issued the following proclamation:

#99-7
PROCLAMATION

WHEREAS, millions of American youth are looking for something to do and the temptations and risks are everywhere; and

WHEREAS, 1 million victims of violent crimes are juveniles and 220,000 youths were arrested for drug abuse last year; and

WHEREAS, Safe Night USA is a national youth violence and substance abuse prevention program proven successful in urban, suburban and rural communities; and

WHEREAS, Safe Night USA encourages youth and adults in communities to work together to identify key issues affecting young people; and

WHEREAS, on June 5, 1999, Branch County will join thousands of other communities in a nationwide Safe Night celebration by providing safe places where youth can have fun and learn to resolve conflict peacefully; and

WHEREAS, Safe Night USA includes a live nationally televised show on PBS and Black Entertainment Television (BET) to connect thousands of Safe Night parties across the country;

NOW THEREFORE, the Branch County Board of Commissioners do hereby proclaim Saturday, June 5, 1999, as a day to commemorate Safe Night USA in Branch County.

20/ Commissioner Uhrig introduced Ken Strong, County Drain Commissioner, who presented some history regarding the Branch County Solid Waste Management Plan Terry Paul was also present and offered some explanation of the plan. Also present to answer questions was Jeff Eves of American Hydrology.

21/ Motion by Commissioner Uhrig seconded by Commissioner Schorfhaar, to accept the Solid Waste Management Plan MOTION CARRIED.

22/ Commissioner Liaison & Committee Reports/Comments:

Commissioner Uhrig – Workforce Development.
Commissioner Keith – Commission on Aging – regarding the fire.
Commissioner Rubley – Maple Lawn; Family Service Network
Commissioner Schorfhaar – Commission on Aging in Battle Creek; Airport.
Commissioner Mitoska – Airport

23/ Chairman's Remarks:

Courthouse flag needs replacing, asked Administrator Anderson to look into replacing it; Substance abuse hearing; Letter from Planning Commission; MAC conference on August 22 – 24, 1999.

28/ Motion by Commissioner Schorfhaar seconded by Commissioner Uhrig, that the Board adjourn at 8:15 p m. MOTION CARRIED.

Chairman

Clerk

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

July 20, 1999

Convened: 10:00 a m.

Present: Chair Ken Strong, Commissioner Lewis Uhrig, David Woodman, John Swanson, Clayton Roberts, Ralph Ringle, Jim Tanner, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology.

Absent: Dan Showalter, Rand Bowman, Gordon Porter, Chad Hardy, Andy Crow, Ralph Finley, and Fred Lilue.

Committee reviewed and approved the previous minutes dated April 14, 1999.

Jeff Eves of American Hydrogeology made note and reviewed with Committee the comments rom the DEQ. Committee recommends:

* **Moved by Swanson and seconded by Paul that revisions be made to the Branch County Solid Waste Management Plan draft pursuant to comments provided by the Department of Environmental Quality and that said Plan be sent to the surrounding municipalities for their review and approval.**

The next meeting will be scheduled upon receipt of the municipalities' approval

Adjourned: 10:30 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

April 14, 1999

Convened: 10:00 a.m.

Present: Chair Ken Strong, Commissioner Lewis Uhrig, David Woodman, John Swanson, Ralph Finley, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology and Commissioner Bob Sargent.

Absent: Dan Showalter, Rand Bowman, Clayton Roberts, Gordon Porter, Chad Hardy, Andy Crow, Fred Lilue, Ralph Ringle, and Jim Tanner.

Committee reviewed and approved the previous minutes dated February 19, 1999

Committee noted no comments made at the public hearing scheduled for April 13, 1999.

Committee determined that if no comments were received from the public by the end of the comment period, the draft plan would be provided to the Board of Commissioners for their approval. In addition, Jeff Eves of American Hydrogeology will wait for comments from the DEQ and revise the plan accordingly.

The next meeting will be scheduled pursuant to such changes made.

Adjourned: 10:20 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

February 9, 1999

Convened: 10:00 a.m

Present: Commissioner Lewis Uhrig, David Woodman, Gordon Porter, Chad Hardy, Andy Crow, Fred Lilue, Ralph Ringle, Jim Tanner, and Terry Paul

Also Present: Jeff Eves, American Hydrogeology and Commissioner Bob Sargent

Absent: Chair Ken Strong, Dan Showalter, Rand Bowman, John Swanson, Clayton Roberts, and Ralph Finley.

Committee reviewed and approved the previous minutes dated January 19, 1999.

Next, Committee met with Jeff Eves of American Hydrogeology Corporation to review the final draft of the Plan and to determine the additional steps the Committee would take in the plan preparation process.

The following decisions were made:

* **Moved by and seconded by that Mr. Jeff Eves of American Hydrogeology Corporation would provide the Department of Environmental Quality the final draft plan for their preliminary review and comments.**

* **Moved by and seconded by that the 90-day public comment period on the final draft will begin on Monday, February 15, 1999, through May 17, 1999.**

In addition to the 90-day public comment period, the public hearing on this matter was scheduled for Tuesday, April 13, 1999, at 7:30 p.m. in the first floor meeting room of the Courthouse during the Department of Public Works meeting at which members of the Committee must attend.

Lastly, the next Solid Waste Committee meeting will be held on Wednesday, April 14, 1999, in order to discuss the public hearing.

Adjourned: 10:30 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

January 19, 1999

Convened: 10:00 a.m.

Present: Chair Ken Strong, Commissioner Lewis Uhrig, David Woodman, John Swanson, Clayton Roberts, Andy Crow, Jim Tanner, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology and Commissioner Bob Sargent.

Absent: Dan Showalter, Rand Bowman, Gordon Porter, Chad Hardy, Ralph Finley, Fred Lilue, and Ralph Ringle.

Committee reviewed and approved the previous minutes dated December 8, 1998.

Next, Committee reviewed with Jeff Eves of American Hydrogeology Corporation the remaining items needed to prepare the final draft of the Plan.

It was determined that all members of the Committee would be asked to review the draft and provide any comments so that the final draft could be provided prior to the February 9, 1999 meeting.

Lastly, Committee discussed the plan preparation process provided by Jeff Eves, as follows:

1. Board of Commissioners (or municipalities) appoints Solid Waste Management Planning Committee (SWMPC) and names DPA.
2. The SWMPC with staff support from DPA holds meetings (subject to Open Meetings Act, 1976 PA 267, as amended, requirements) and prepares draft plan.
3. The SWMPC approves release of draft plan for public review and comment.
4. The SWMPC/DPA issues public notice and holds 90-day comment period and public hearing on draft plan.
5. After considering public comment, the SWMPC revises and recommends plan for approval by the Board of Commissioners (or municipalities) within 30 days of end of 90-day public comment period.
6. The Board of Commissioners (or municipalities) approves plan as presented or sends back to the SWMPC with objections.
7. The SWMPC (if plan returned to them) acts on the Board of Commissioners' concerns and sends plan back to the Board of Commissioners (or municipalities) within 30 days.
8. The Board of Commissioners (or municipalities) approves the SWMPC plan or adopts its own version of plan.
9. Plan goes to all municipalities for approval by governing bodies.
10. Plan receives approval of at least 67 percent of municipalities – is locally-approved and submitted to the DEQ for approval.
11. Plan fails to receive 67 percent municipality approval – the DEQ prepares plan for county.

Adjourned: 10:35 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

December 8, 1998

Convened: 10:00 a.m.

Present: Chair Ken Strong, Commissioner Lewis Uhrig, David Woodman, Rand Bowman, John Swanson, Clayton Roberts, Gordon Porter, Chad Hardy, Andy Crow, Fred Lilue, Ralph Ringle, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology and Commissioner Bob Sargent.

Absent: Dan Showalter, Ralph Finley, and Jim Tanner.

Committee reviewed and approved the previous minutes dated November 10, 1998.

Next, Committee reviewed with Jeff Eves of American Hydrogeology Corporation the remaining items needed to prepare the final draft of the Plan. Mr. Eves requested additional information, if any, from recycling areas within the County.

Also discussed was the request for a resolution implementing the plan by DPW, the wording for previous Committee nominations, Solid Waste monies for 1999, and the Michigan Recycling Coalition.

It was also determined that the "fast track" language would not be utilized in the Plan.

Lastly, Mr. Eves noted that a copy of the drafted Plan will be provided to the Committee approximately one week prior to the next meeting of January 12, 1998.

Adjourned: 10:40 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

November 10, 1998

Convened: 10:00 a.m.

Present: Chair Ken Strong, Commissioner Lewis Uhrig, David Woodman, John Swanson, Clayton Roberts, Chad Hardy, Fred Lilue, Ralph Ringle, Jim Tanner, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology, Commissioner Bob Sargent, and Steve Essling of Hastings Sanitary Service.

Absent: Dan Showalter, Rand Bowman, Gordon Porter, Mike Sherfield, and Ralph Finley.

Committee reviewed and approved the previous minutes dated October 13, 1998.

Next, Committee reviewed any additional responses from the various counties regarding the Branch County Solid Waste Plan.

Committee then reviewed a drafted copy of the plan provided by Jeff Eves of American Hydrogeology Corporation. Mr. Eves requested volunteers to provide information regarding the amounts of recycling and composting within the County.

Mr. Eves noted that the anticipated completion date for the plan would be January 1999.

Committee noted the procedure for the adoption of the plan, per Steve Essling of Hastings Sanitary Service. Mr. Essling also noted that the fast track approach previously mentioned may not be approved by the DEQ.

Committee lastly made note of requesting that the Board of Commissioners adopt a resolution to include a clause stating that a portion of the plan can be rewritten by the Committee if unacceptable by the DEQ rather than the DEQ rewriting the plan.

Adjourned: 11:05 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

October 13, 1998

Convened: 10:00 a.m.

Present: Chair Ken Strong, Commissioners Lewis Uhrig, Rand Bowman, John Swanson, Clayton Roberts, Ralph Ringle, Jim Tanner, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology, Commissioner Bob Sargent, and Steve Essling of Hastings Sanitary Service.

Absent: Dan Showalter, David Woodman, Gordon Porter, Chad Hardy, Mike Sherfield, Ralph Finley, and Fred Lilue.

Committee first reviewed the responses received from various counties regarding their including Branch County in their Solid Waste Plan.

Next, Committee reviewed the drafted Solid Waste Plan provided by Jeff Eves. Committee made various revisions, to include an increase in population, pursuant to the Housing Market Study for Branch County.

Other issues discussed were the Evaluation of Deficiencies where the lack of recycling was mentioned; Land Development where the Housing Market Study would be utilized; and education programs that would be inquired about by Chair Ken Strong.

Committee also discussed the Michigan Recycling Coalition wherein this unit provides conferences regarding recycling at a cost of $130.00 per year. Committee recommends:

* **Moved by and seconded by that authorization be given to the Solid Waste Management Committee to join the Michigan Recycling Coalition at a cost of $130.00, to be funded by the #101-275 fund, to be attended by Jim Tanner, or respective alternate.**

Mr. Steve Essling joined Committee to discuss various issues, to include a mechanism for fast track approval rather than the 90-day waiting period.

Lastly, Committee approved the minutes of the previous meeting.

Adjourned: 11:20 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

September 8, 1998

Convened: 10:00 a.m.

Present: Chair Ken Strong, Commissioner Lewis Uhrig, David Woodman, Clayton Roberts, Chad Hardy, Fred Lilue, Ralph Ringle, Jim Tanner, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology and Commissioner Bob Sargent.

Absent: Dan Showalter, Rand Bowman, John Swanson, Gordon Porter, Mike Sherfield, and Ralph Finley.

Committee first approved all minutes previously unapproved.

Next, Committee determined that a follow-up memo would be sent to the surrounding counties that Branch County would like included in its Solid Waste plan, along with a follow-up telephone call.

It was also determined that Bronson has no ordinances in this regard.

Committee additionally discussed the question of whether a resolution would need to be passed by the Board of Commissioners regarding ordinances.

Jeff Eves, American Hydrogeology Corporation Consultant, noted that several sections of the plan are finished and that Committee would need to review them at the next meeting.

Adjourned: 11:10 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

August 11, 1998

Convened: 10:00 a.m.

Present: Chair Ken Strong, Commissioner Lewis Uhrig, Fred Lilue, Jim Tanner, and Terry Paul.

Also Present: Jeff Eves, American Hydrogeology

Absent: Dan Showalter, David Woodman, Rand Bowman, John Swanson, Clayton Roberts, Gordon Porter, Chad Hardy, Mike Sherfield, Ralph Finley, and Ralph Ringle

Jeff Eves of American Hydrogeology Corporation informed Committee that the Solid Waste Plan has begun Committee advised that they would prefer that Mr. Eves provide DEQ with portions of the Plan as they are completed.

Committee discussed a letter being sent to all counties regarding including them in Branch County's Plan.

Mr. Eves stated that information on demographics is needed for the City of Coldwater. Mr. Lilue will provide this information, along with projections in this regard.

Committee reviewed, discussed and approved drafted goals and objectives provided by Mr. Eves.

Mr. Eves also provided an Educational and Informational Programs form wherein each member will provide any programs regarding the various components of a solid waste management system, i e , school programs, recycling, etc

A discussion took place as to local ordinances and regulations regarding disposal are not enforceable by the municipalities unless they are included in the plan. Committee will check for any ordinances in the various villages, townships, and cities.

Adjourned: 11:00 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

July 14, 1998

Convened: 10:00 a.m

Present: Chair Ken Strong, David Woodman, Clayton Roberts, Gordon Porter, Chad Hardy, Fred Lilue, Ralph Ringle, Jim Tanner, and Terry Paul.

Also Present: Steve Essling, Hastings Sanitary Service; and Jeff Eves, American Hydrogeology.

Absent: Lewis Uhrig, Dan Showalter, Rand Bowman, John Swanson, Mike Sherfield, and Ralph Finley

Committee requested that Jeff Eves of American Hydrogeology Corporation provide an update for the Solid Waste Plan. Mr. Eves instructed that the information obtained would be merged into the plan upon its receipt. Mr. Eves also instructed Committee to draft a letter to the outside counties in the state of Michigan who have landfills regarding the solid waste management plan update in order to include them in Branch County's plan. Mr. Eves stated that he would provide a list of those counties to Committee. This letter must be approved by the Branch County Board of Commissioners.

Mr. Eves also instructed that a letter should be sent to the larger franchises in the county, i.e., Walmart, Felpausch, Kmart, Kroger, Farmer Jacks, and Quality Farm & Fleet, to inquire in regard to recycling and its tonnage.

Mr. Eves requested direction regarding the county's goals.

Committee determined that a follow-up letter to the cities, townships, and villages would be beneficial.

Mr. Essling of Hastings Sanitary Service provided various helpful hints in these regards prior to the adjournment of the meeting

Adjourned: 11:20 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

June 9, 1998

Convened: 10:00 a m.

Present: Acting Chair Terry Paul, Ralph Ringle, Lewis Uhrig, David Woodman, and Jim Tanner.

Also Present: Steve Essling, Hastings Sanitary Service; and Jeff Eeves, American Hydrogeology

Absent: Ken Strong, Chad Hardy, Fred Lilue, Rand Bowman, John Swanson, Mike Sherfield, Russ Feller, Jack Wages, Dan Showalter, and Terry MacDonald.

Committee welcomed Jeff Eves of American Hydrogeology Corporation, who instructed the Committee of the various information needed in developing Branch County's Solid Waste Plan, as attached. Mr. Eves also noted that a draft of the plan would be provided at the next meeting, currently scheduled for July 14, 1998, at 10:00 a m.

Mr. Terry Paul suggested contacting all Committee members for the purpose of delegating duties in order to obtain information needed for the plan.

Mr. Steve Essling, Hastings Sanitary Service, noted various tactics for obtaining this information.

Adjourned: 11:15 a.m

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT MEETING

May 12, 1998

Convened: 10:00 a m

Present: Chair Ken Strong, Ralph Ringle, Lewis Uhrig, and Terry Paul.

Also Present: Steve Essling, Hastings Sanitary Service; Mick Lynch and Jeff Eeves, American Hydrogeology; and Mike Stevens, Health Department

Absent: Chad Hardy, Fred Lilue, David Woodman, Rand Bowman, John Swanson, Mike Sherfield, Jim Tanner, Russ Feller, Jack Wages, Dan Showalter, and Terry MacDonald.

The Committee was joined by Steve Essling to obtain an update on the status of Branch County's plan Mr. Essling also volunteered any information that may help American Hydrogeology Corporation in developing Branch County's Solid Waste Plan

Mick Lynch and Jeff Eeves from American Hydrogeology joined the Committee to request the gathering of data information for the Solid Waste Plan. The information required consists of 1) actual waste history of last five years; 2) all waste and demographic information; 3) projections of growth of waste volume and waste inventory; 4) list of counties for reciprocal agreement; and 5) recycling.

The DEQ Report of Solid Waste Landfills was provided to Mr. Lynch and Mr. Eeves, along with letters written from various counties requesting that they be included in Branch County's Solid Waste Plan.

It was determined that the Committee would explore billing information in order to ascertain tonnage of waste and that they would also inquire into the U.S. Census Report. It was also resolved that the Committee would contact the County Planning Commission in order to obtain the projections of growth.

Mr. Essling explained that there are no current minimum State requirements for a solid waste plan and that the County should explore the minimum guidelines so they won't be obligated to practice requirements they may not be able to meet.

It was also determined that the Committee would review the previous plan for the various counties and also evaluate any deficiencies and/or problems with regard to the Solid Waste Management. Committee will also evaluate any concerns from the people in the counties.

The next Solid Waste Management meeting will be held on Tuesday, June 9, 1998, at 10:00 a.m.

Adjourned: 11:00 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

May 4, 1998

TO: BRANCH COUNTY BOARD OF COMMISSIONERS

FROM: KEN STRONG, CHAIR, SOLID WASTE COMMITTEE

RE: COMMITTEE RECOMMENDATIONS

The Committee has reviewed the concern of certain members being unable to attend the meetings and therefore recommend:

* Moved by and seconded by
that Terry MacDonald be replaced by Clayton Roberts as a representative for the General Public.

* Moved by and seconded by
that Terry Paul be removed as a representative for the General Public and replace Russ Feller and Jack Wages, Alternate, as a representative for Environmental Interest Group.

*Moved by and seconded by
that Gordon Porter replace Terry Paul as a representative for General Public.

SOLID WASTE MANAGEMENT MEETING

APRIL 14, 1998

Convened: 10:00 a m.

Present: Chair Ken Strong, Chad Hardy, Fred Lilue, Ralph Ringle, Lewis Uhrig, David Woodman, Rand Bowman, John Swanson, and Terry Paul.

Absent: Mike Sherfield, Jim Tanner, Russ Feller, Jack Wages, Dan Showalter, and Terry MacDonald.

The Solid Waste Management Committee met in the Public Meeting Room at the Branch County Courthouse at 10:00 a.m. The Committee was called to order by Chair Ken Strong. The Committee reviewed the February 10, 1998 minutes.

- **Motion by John Swanson Seconded by Fred Lilue, that the February 10, 1998 minutes be approved as presented. MOTION CARRIED.**

Mick Lynch joined the Committee to discuss the proposed contract provided by American Hydrogeology Corporation. Mr. Lynch stated that he would attend all meetings as a substitute for Bob Minning, who will be overseeing the entire project. Mr. Lynch explained that the contract states the not-to exceed price of $5,000.00. This price includes travel, faxes, phone, postage, and manger time. The Committee was concerned about the price not- to-exceed if the Committee were to do very little work due to members not following through on there assignments. The Committee wanted to make sure that Mr. Lynch took this possibility into consideration so that in two months it wasn't a shock to AHC that the Committee was behind on the plan. Mr. Lynch stated that if the Committee were to cooperate very little then the price would (at the most) double. Mr. Lynch assured the Committee of his companies capability of turning in an acceptable plan to DEQ. Mr. Lynch stated that he would provide the Committee with a timeline, which will help, start delegating work assignments.

The Committee discussed the concern of Terry MacDonald, Russ Feller, and Jack Wages being unable to attend Committee meetings. The Committee will recommend that Terry Paul be reclassified as a representative for Environmental Interest Group rather than a representative for General Public taking place of Russ Feller and Jack Wages, who are unable to attend the meetings. Gordon Porter will be asked to replace Terry MacDonald who is a representative for the general public and Clayton ~~Coward~~ will be asked to take the place of Terry Paul's former position for general public. Lewis Uhrig will present a motion to the Board of Commissioners after confirmation has been received by the possible candidates. Chair Strong will meet with Administrator Anderson to make sure all rules and regulations are followed before hiring a consultant, and to have the Solid Waste Budget approved by the Board of Commissioners.

ROBERTS

*** Motion by Fred Lilue Seconded by Chad Hardy that authorization be given by to the Solid Waste Management Committee to enter into an agreement with American Hydrogeology Corporation with an not-to-exceed amount of $5,000.00. MOTION CARRIED.**

American Hydrogeology Corporation will draft a letter that will be sent to other Counties asking to be included in their plan.

Adjourned: 11:00 a m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

BRANCH COUNTY SOLID WASTE MANAGEMENT COMMITTEE

MARCH 17, 1998

Convened: 10:00 a.m

Present: Chad Hardy, Ralph Finley, Ralph Ringle, Jim Tanner, Ken Strong, Dan Showalter, David Woodman, Rand Bowman, and John Swanson, Also present was Mike Stevens from the District Health Department

Absent: Mike Sherfield, Fred Lilue, Russ Feller, Jack Wages, and Lewie Uhrig, Terry Paul, Terry MacDonald

The Solid Waste Management Committee met in the Public Meeting Room at the Branch County Courthouse at 10:00 a.m. The Meeting was called to order by Chair Strong.

- **Motion by Dan Showalter and seconded by John Swanson that the February 10, 1998 minutes by approved as presented.**

Mr. Mick Lynch joined the Committee to discuss being an advisor for the Solid Waste Committee and help develop the Solid Waste Plan. Mr. Lynch is the President of American Hydrogeology Corporation and feels that his company is very capable in helping develop the plan. Mr. Lynch stated that his employee, Bob Minning is an expert in this field and has helped develop several other plans in Michigan.

The Committee requested in writing a proposal between Branch County Solid Waste Management Committee and American Hydrogeology Corporation stating that the cost for assistance will not exceed $5,000.00. This proposal would detail that American Hydrogeology Corporation will identify the proper procedures and distribute them to the Committee. At this time, the Solid Waste Committee will execute the procedures needed and report back to A.H.C. The proposal will also state an hourly rate if the Committee needed the firm to exceed the maximum price.

The Committee questioned what would happen if the plan was submitted and excepted to the State of Michigan, and then another large company decides to build in Branch County. Mr. Lynch stated that it was his understanding that even though this would be a five year plan the Branch County Board of Commissioners needed to approve it every year, at which time, if there were to be a dramatic increase in growth the Solid Waste Committee would need to meet and determine what needed to be done at that time.

Copies of the proposal will be mailed to all Committee Members as soon as it is received.

The Committee will meet April 14, 1998 at 10:00 a.m. in the Public Meeting Room of the Branch County Courthouse.

Adjoined: 10:35

AMERICAN HYDROGEOLOGY CORPORATION

Environmental Consulting Services

Michigan Office
6869 Sprinkle Road
Kalamazoo, Michigan 49001
(616) 329-1600
Fax (616) 329-2494

Indiana Office
422 Washington Street • P.O. Box 911
Columbus, Indiana 47202-0911
(812) 372-1100
Fax (812) 372-0999

April 1, 1998

Branch County Solid Waste Management Committee
% Ms. Renee Katz
Branch County Courthouse
31 Division Street
Coldwater, Michigan 49036

Re: Preparation of Solid Waste Management Plan Update for Branch County

Dear Committee Members:

American Hydrogeology Corporation is pleased to submit the enclosed Scope of Services for providing guidance, assistance, and direction to the Branch County Solid Waste Management Planning Committee, and their Designated Planning Agency in the preparation of a Solid Waste Management Plan Update (Plan) for Branch County. It is our intent to serve as a resource to assist the DPA in the research, development, and preparation of the Plan. AHC would also meet with the DPA, as needed, and review and comment on specific sections of the Plan as they are drafted. We feel this approach is the most cost effective in that it maximizes the resources of the DPA.

We propose to provide the outlined services for a not-to-exceed price of $5,000. This price is based on 25 hours of senior project manager time @ $110/hr, 40 hours of project manager time @ $55/hr, and expenses (travel, phone, fax, postage, etc.) @ $550 which totals $5,500. However, we will stay within the $5,000 that was discussed in our meeting. There will be no charge for my time.

AHC appreciates this opportunity to provide this Scope of Services. Should there be any questions regarding our proposal, the cost estimate, or the project in general, please call me at 616-329-1600.

Very truly yours,

AMERICAN HYDROGEOLOGY CORPORATION

Pamela A. Kuenzer

for: Patrick M. Lynch, CPG
General Manager

PML/pak/AHC

Enclosure: Scope of Services

cc: Bob Minning, R.C. Minning & Associates

C:\AHC\WPFILES\Branch County SW\Highcbrand2.wpd

SCOPE OF SERVICES

American Hydrogeology Corporation (AHC) proposes to provide guidance, direction, and assistance to the Branch County Solid Waste Management Planning Committee (BCSWMPC) and their Designated Planning Agency (DPA) in the preparation of their Solid Waste Management Plan Update (SWMPU) in accord with 1994 Public Act 153 (Act 153), and general guidance provided by the Waste Management Division of the Michigan Department of Environmental Quality (WMD/MDEQ). The Scope of Services to be provided will include, but not be limited to:

1. Assistance with determining current Solid Waste Management Practices in Branch County.
2. Assistance / third party review of Branch County's progress towards the goals and objectives presented in the 1993 Plan
3. Assistance and direction with an inventory of existing facilities
4. Assistance and guidance with review and update of Branch county demographics
5. Assistance and guidance with the review and update of Branch County's solid waste management alternatives: source reduction; landfills, recycling, incineration, composting, and transfer of waste.
6. Review and assistance with update of Branch County's siting criteria.
7. Assistance and review of financial information
8. Guidance and assistance with preparation of five (5) and ten (10) year draft plans Review of draft plan.
9. Attendance at public hearings as requested by BCSWMPC.

The tentative schedule for the above is as follows:

1. Branch County issues Notice of Intent (NOI) to WMD/MDEQ. Assumed completed
2. WMD/MDEQ acknowledges receipt of NOI, and provides BCSWMPC and their DPA with a copy of the current format along with a detailed guidebook on preparing the format. Assumed completed.
3. BCSWMPC and their DPA hold meetings and prepare draft plan. Present to August 1, 1998.
4. BCSWMPC approves release of draft plan for public review and comment. August 1, 1998.
5. BCSWMPC and their DPA issues public notice and holds 90-day comment and public hearing on draft plan. August 1, 1998 through November 1, 1998.
6. BCSWMPC revises and recommends plan for approval by the Branch County Board of Commissioners.
7. Board of Commissioners approves or requests modifications to plan. Approved plan sent to all municipalities in Branch County for approval by governing bodies. Plan receives 67 percent approval and is submitted to MDEQ for approval. **November 1, 1998 through December 1, 1998.**

C:\AHC\WPFILES\Branch County SWP\ahcbran1.wpd

recycled paper

AHC

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT COMMITTEE

FEBRUARY 10, 1998

Convened: 10:00 a.m

Present: Chair Ken Strong, Mike Sherfield, Lewie Uhrig, Dan Showalter, Jim Tanner, David Woodman, Chad Hardy, John Swanson, and Fred Lilue Terry Paul arrived at 10:25 a m. Also Present was Mike Stevens from the District Health Department.

Absent: Ralph Ringle, Ralph Finley, Russ Feller, Jack Wages, Rand Bowman, and Terry MacDonald.

The Solid Waste Management Committee met in the Public Meeting Room at the Branch County Courthouse at 10:00 a.m. The Meeting was called to order by Chair Strong. The Committee discussed the concern of some Committee Members not being able to make the 10:00 a m. Meetings

* Motion by Dan Showalter Seconded by David Woodman, that the January 27, 1998 minutes be approved as presented. MOTION CARRIED.

Jim Tanner spoke of the Goals and Objectives that the Committee requested from Kalamazoo County Solid Waste Committee. The Committee also discussed the questionnaires that were sent out to the haulers and transfer stations. Chad Hardy spoke of a pamphlet that he requested from The Environmental Interest Group, which listed every landfill in Michigan and the amount of waste which is hauled there. Mr. Hardy will break down the information that the Committee will need, at which time the results will be distributed to the Committee Members. Mr. Hardy suggested that the Committee forfeit the premium pay and look at hiring a Consultant to help develop our plan. Mr. Hardy also suggested that the amount left in the Solid Waste Fund then be distributed appropriately to the Committee Members. Mr. Hardy stated that he has researched some Firms that deal directly with Solid Waste Committees and felt that this would benefit the Committee.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

The Committee decided to have Chad Hardy research the Consultant Firms Information will be gathered within three weeks and then mailed to all Committee Members for review at the next meeting, at which time a decision will be made.

The Committee will meet Tuesday, March 10, 1998 at 10:00 a.m in the Public Meeting Room of the Branch County Courthouse.

Adjourned: 10:45 a.m.

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

SOLID WASTE MANAGEMENT COMMITTEE
JANUARY 27, 1998

Convened: 10:00 a.m.

Present: Chad Hardy, Mike Sherfield, Fred Lilue, Ralph Ringle, Jack Wages, Ken Strong, Lewie Uhrig, David Woodman, Rand Bowman, and Terry Paul. Also Present was Branch County Commissioner, Chairperson Burch.

Absent: Ralph Finley, Jim Tanner, Russ Feller, Dan Showalter, John Swanson, and Terry MacDonald

The Branch County Solid Waste Management Planning Committee met in the Public Meeting Room at the Branch County Courthouse at 10:00 a.m.. The Meeting was called to order by Branch County Commissioner Chairperson Burch.

* Motion by Ken Strong and seconded by Lewie Uhrig that Terry paul be nominated for Chair of the Branch County Solid Waste Management Committee.

Mr. Paul declined the nomination.

* Previous motion was resined.

* Unanimous Motion that Ken Strong be nominated as Chair and Terry Paul be nominated as Vice-Chair for the Branch County Solid Waste Management Committee. MOTION CARRIED.

Rand Bowman spoke of his attendance to a Solid Waste Management training session at Houghton Lake. The committee reviewed DEQ's Plan Format Guide, which was broken down into three separate sections.

I. Goals and Objectives

II. Data Base
   A. Existing Facilities
   B. Existing Services

BRANCH COUNTY
COURTHOUSE

31 DIVISION STREET • COLDWATER • MICHIGAN • 49036
TELEPHONE (517) 279-4301 FAX (517) 278-4130

C. Deficiencies and Problems
D. Identify Demographics
E. Land Development Issues
F. Solid Waste Existing Alternatives with in the County

III. Selected Systems
A. Management
B. Disposal
C. Facilities
D. R. R.
E. Education
F. Local Ordinances

The committee decided to designate individuals to help evaluate and research the outlay of DEQ's Plan Content. Terry Paul and Jim Tanner will research section I. Mike Sherfield and Chad Hardy will research section II., items A and B. Section II. C will be evaluated by the committee for different alternatives after section II. has been discussed and determined before the committee. Section III. D will be researched by Terry Paul and section III. E will be researched by Ken Strong. The remaining items will be discussed at the next board meeting.

The committee discussed employing an outside consultant to help with the plan. It was agreed upon that the committee would wait and hire a consultant as a last resort.

The committee has decided to send a questionnaire to the landfills, transfer stations, and haulers. This will be reviewed at the next meeting.

The committee will meet February 10, 1998 at 10:00 a.m., at the Public Meeting Room of Branch County Courthouse.

STATE OF MICHIGAN

JOHN ENGLER, Governor

DEPARTMENT OF ENVIRONMENTAL QUALITY

"Better Service for a Better Environment"

HOLLISTER BUILDING PO BOX 30473 LANSING MI 48909-7973

INTERNET: www.deq.state.mi.us

RUSSELL J. HARDING, Director

REPLY TO:

WASTE MANAGEMENT DIVISION
PO BOX 30241
LANSING MI 48909-7741

May 17, 1999

RECEIVED

MAY 19 1999

AMERICAN HYDROGEOLOGY CORPORATION

Mr. Ken Strong, Director of Public Works
Branch County Department of Public Works
County Courthouse
31 Division Street
Coldwater, Michigan 49036

Dear Mr. Strong:

SUBJECT: Comments on the Draft Branch County Solid Waste Management Plan Update (Plan)

This letter is to provide the Department of Environmental Quality's (DEQ's) review comments on the Draft Branch County Solid Waste Management Plan Update (Plan), released for public comment on February 15, 1999 and received by this office on February 18, 1999.

I appreciate the efforts of the Solid Waste Management Planning Committee (SWMPC) in the development and preparation of this Plan. With the exception of the following comments, I belive the Plan to be approvable, as written.

1. Page II-1 cites a March 1987 Department of Natural Resources (DNR) study of the waste stream of Isabella County as the source for the data used to estimate the waste generation per person in Branch County. This document is twelve years old and may not adequately reflect the current waste generation of Branch County. Two other resources used by various counties to estimate individual waste generation include: 1) the U.S. Environmental Protection Agency's (EPA) Characterization of Municipal Solid Waste in the United States, 1996 & 1997 Updates; and 2) the DEQ's Report of Solid Waste Landfilled in Michigan (Landfill Receipt Report) for the fiscal years 1996 through 1998. I suggest that the County use one of these other two sources to compare with the information used.

2. Page II-2 states that only 69.1 percent of the waste generated requires solid waste disposal capacity. This is only true if the County can document that 29 percent of the waste stream generated in the County is being recycled or otherwised diverted from the waste stream. If the County intends to provide substantive programs aimed at diverting this amount of waste, then the estimates of future solid waste needing disposal could use these reduced amounts.

3. On pages II-1 to II-2, the total solid waste generated in the County for which the County must plan disposal capacity is not clearly stated. Please provide a total number for which disposal capacity must be provided.

4. Pages II-5 to II-8 and Appendix B, "SOLID WASTE MANAGEMENT ALTERNATIVES," state that the alternatives were evaluated by a discussion and by ranking. Solid waste

management alternatives are two or more management systems each, including the components described on these pages. Alternative Systems can then be compared against each other and the best Management System for the County is selected. The County provided a discussion of the components; but not of the evaluations of the alternative management systems, composed of these components. Please change this section to provide two or more alternative management systems. Please, also, ensure that language in the Selected System remains consistent with the language of the chosen alternative management system

5. On pages III-2 and III-3, **Table 1-A** and **Table 1-B** do not list any counties as being authorized to import waste into Branch County. Since transfer stations are also disposal areas, this also means that the two transfer stations within the county would not be allowed to accept waste from other counties. Please ensure that these tables reflect the authorizations intended.

6. On page III-4, **Table 2-A** lists Genesee, Huron, Midland, Muskegon, Ottawa, and Sanilac as counties authorized for export of Branch County's waste on a contingency basis. This is acceptable, however, it should be noted that those counties authorized on a contingency basis could only be used if no primary disposal options are available. Please ensure that these tables reflect the authorizations intended.

7. On page III-5, **Table 2-B** is duplicative of the authorization already provided on Table 2-A and, therefore, is unnecessary.

8 On page III-6, "**Inventory of Existing Facilities**", includes the two transfer stations located within the County and also the out-of-county facilities to provide for the County's long-term capacity needs. Those facilities currently used by the County to meet its solid waste management needs should also be included in the Database section of the Plan. Please add the appropriate facilities to the database portion of the Plan along with the corresponding facility description sheets. In addition, please also add the name of the facility used as a final disposal site to the "FACILITY DESCRIPTION" sheet for each of these facilities.

9. On page III-6, "**Inventory of Existing Facilities**", two transfer stations located within the County do not have corresponding "FACILITY DESCRIPTION" pages. Please provide a facility description page for each of these transfer stations.

10. In "**Inventory of Existing Facilities**," page III-6, the Kalamazoo County (BFI Transfer Station) is listed in the corresponding "FACILITY DESCRIPTION" page III-20, as the Cork Street Transfer Station. Please adjust these pages so that the names on these pages are consistent. In addition, please complete all portions of the "FACILITY DESCRIPTION" form for this facility.

11. On page III-32, the tables, entitled "PROJECTED DIVERSION RATES" and "MARKET AVAILABILITY FOR COLLECTED MATERIALS," were not completed, even though the County has programs in place. To the extent possible, please provide an estimate of the information requested in these tables.

12. On pages III-35 and III-39, the Plan asserts that it had provided ten years of disposal capacity, but does not provide actual demonstration of this capacity. This can be remedied by adequately addressing the comments in items 6, 8, 9, 10, and 16 of this letter.

13 On page III-38, under Section 3, number 8 authorizes "other provisions intended to protect health, safety, and welfare of the concerned community." This language is vague and does not provide information as to whether a new local regulation meeting this description would regulate a solid waste disposal area, and, therefore, would be required to be included in the Plan Please either delete this language or provide specific detail for this item.

14. In Appendix C, "**PUBLIC PARTICIPATION AND APPROVAL,**" please ensure that the Plan includes all required attachments prior to submittal of the Plan by the County for final approval.

15. On page Appendix C-1, for the two Solid Waste Management Planning Committee members which were appointed to represent "ENVIRONMENTAL INTEREST GROUPS," the environmental organizations these individuals represent should be included.

16. No information has been included in Appendix D, (page D-3), to demonstrate that any of the solid waste disposal areas listed on page III-6 will accept solid waste generated in Branch County to provide solid waste disposal capacity for the solid waste generated within Branch County for the next ten years. Please ensure that the Plan includes this information as part of Attachment D, prior to submittal of the Plan by the County for final approval

If you have any questions, or need further clarification regarding this issue or other issues in development of your county Plan, please contact me.

Sincerely,

Melinda Keillor

Melinda Ann Keillor
Solid Waste Program Section
Waste Management Division
517-373-4741
Keillor@state mi.us

cc: ✓Mr. Jeffrey H. Eves, Project Manager, American Hydrogeology Corporation
Delta County File

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Kinderhook, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: August 30, 1999

By: Jeanine James

Its: Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the TOWNSHIP of GIRARD, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: Aug. 5, 1999

By: Clayton Roberts

Its: _____

GIRARD TOWNSHIP CLERK
Clayton Roberts
3021 Treasure Ln.
Coldwater, MI 49036

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the TOWNSHIP of BATAVIA, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 8-4-99

By: [illegible]

Its: Supervisor

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Bronson, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 8-3-99

By: Florentine Keesler
Its: Township Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

RECEIVED

AUG 12 1999

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the City of Bronson, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: August 9, 1999

By: David J. O'Rourke

Its: City Manager

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

RECEIVED

AUG 12 1999

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Union, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 8-11-99

By: Lilian Dolph

Its: Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

RECEIVED

AUG 16 1999

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Matteson, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: Aug. 11, 1999

By: Karen J. Fisher

Its: Township Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

RECEIVED
AUG 16 1999

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Quincy, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 8/12/99

By: Judy DeBartolo

Its: Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Village of Quincy, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 8/18/99

By: Karen Hargreave
Its: President Pro-tem

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

RECEIVED

AUG 27 1999

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Bethel, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: Aug 9th 1999

By: Lori L Brewer

Its: Bethel Township Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Village of Sherwood, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: Aug. 24, 1999

By: Loretta Tenney
Its: Village Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the VILLAGE of UNION CITY, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 9/13/99

By: Terry E. Smith
Terry E. Smith
Its: Village Manager

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Algansee, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: Sept 23, 1999

By: Suzanne R. Preston

Its: Township Clerk

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Coldwater, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 9-29-99

By: John R Kopacz Jr.
Its: Supervisor

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Quincy, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: Oct. 4, 1999

By: [illegible]
Its: Township Supervisor

Return acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Twp. of Noble, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 10-4-99

By: [illegible]

Its: Supervisor

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of California, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 10-4-99

By: [signature]

Its: Sup

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

Acceptance of Branch County Solid Waste Management Plan
5-Year Update, 1999

As authorized agent of the Township of Girard, I hereby proclaim that the Branch County Solid Waste Management Plan 5-Year Update, 1999 has been reviewed by this municipality, and said Plan has been deemed acceptable.

Date: 10-4-99

By: [illegible]

Its: Supervisor

** Please return this acceptance in the self-addressed, pre-stamped envelope provided.

APPENDIX D

ATTACHMENTS

Plan Implementation Strategy

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

As described elsewhere in this Plan, the Branch County Board of Commissioners has ultimate authority over implementation of this Plan, and delegates specific implementation to the designated planning agency (DPA), the Branch County Department of Public Works, which is assisted by the Branch County Solid Waste Management Planning Committee (Committee).

The DPA shall oversee development and update of this Plan as required. Because no county administrated solid waste management programs exist, the DPA will address solid waste planning issues on an as-needed basis. However, the DPA will periodically communicate (through newspapers and/or flyers) recycling and other solid waste management information to public and private entities within the County, to actively encourage these activities.

Resolutions

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

Not applicable.

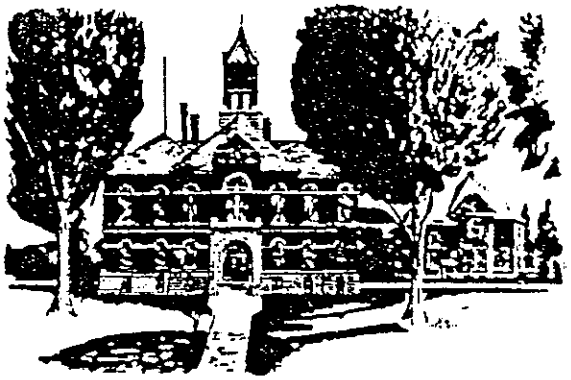
Listed Capacity

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

Attached are written acknowledgements from other counties which described their respective approvals for acceptance of solid waste.

BARRY COUNTY COURTHOUSE

220 W. STATE STREET
HASTINGS, MICHIGAN 49058



Mailed 10/14/98

October 9, 1998

Ken Strong
Branch County Drain Commissioner
Branch County Court House
31 Division Street
Coldwater, MI 49036

RE: Import/Export Agreements for Solid Waste Management

Dear Ken:

The Barry County Solid Waste Planning Committee is currently drafting its update plan.

Branch County is listed as an authorized importing county in our draft Solid Waste Management Plan update. The import of Branch County's waste is consistent with the current host agreement between Barry County and City Environmental Services Landfill, Inc. of Hastings.

Our current draft Plan lists export authorization to all other counties in Michigan that will list Barry County as an exporting county in their plans.

It is also our understanding that Branch County will list Barry County as an identified exporting county in your Solid Waste Plan update.

If you have any questions concerning the above, please contact us.

Sincerely,

BARRY COUNTY SOLID WASTE PLANNING COMMITTEE

V. Harry Adrounie, Ph.D
Chairman

EATON COUNTY DEPARTMENT OF RESOURCE RECOVERY
1045 INDEPENDENCE BLVD
CHARLOTTE, MI 48813

May 27, 1998

MS. CHARLENE BURCH
BRANCH CO SWMPC
31 DIVISON ST
COLDWATER, MI 49036

Dear MS. BURCH:

For the 1998 Solid Waste Management Plan Update, Eaton County has recognized 41 counties as possible candidates for import/export authorization of solid waste. Your county has been identified as one for potential inclusion in the Plan. As part of the import/export authorization conditions, Eaton County is requiring that reciprocal agreements for the transfer of solid waste be entered into to provide for a freer-flow of waste in Michigan.

At the present time, Eaton County does not have a disposal facility within its borders. However, the County will agree to include all 41 counties in its future import authorization category for disposal if and when a facility is actually sited. Eaton County is considering the authorization of 100% import/export between these counties to account for market changes within the plan update period.

As per MDEQ requirements, it is necessary for explicit authorization for import/export from each county be included in the plan. As such, Eaton County is asking for that authorization from your county at this time. If your county is interested in being recognized in Eaton County's Plan, please submit a letter stating your acceptance of the reciprocal agreement and any stipulations, conditions, etc. that are necessary.

Also required by the MDEQ is an inventory of each disposal site. If your county hosts one or more disposal facilities, Eaton County would very much appreciate receiving a facility description (and contact person/phone number) for each disposal area in your county. Please include any stipulations, conditions, or restrictions that will affect import/export at the facility.

I thank you for your attention and cooperation regarding these matters. If you have any questions or concerns, please do not hesitate to contact me at (517) 543-7500 x627 or via E-mail at **mhill@co.eaton.mi.us**. You can address any correspondence to: Marc Hill, Eaton County Resource Recovery, 1045 Independence Blvd, Charlotte, MI 48813.

Sincerely,

Marc A. Hill
Resource Recovery Coordinator

RECEIVED
JUN 16 1998
AMERICAN HYDROGEOLOGY CORPORATION

KEN STRONG - FYI

RESOURCE RECOVERY PROJECT
OF IONIA COUNTY

March 13, 1998

TO: Designated Planning Agencies for Berrien, Branch, Calhoun, Cass, Clare, Jackson, Kalamazoo, Midland, Mecosta, Osceola, Saginaw, Shiawassee, St. Joseph, Van Buren, and Wexford Counties
FROM: Don Lehman, Ionia County Solid Waste Coordinator
RE: Solid Waste Management Plan Import/Export Arrangements

At Ionia County's Solid Waste Planning Committee meeting on March 5, your county was designated as a county from which "Special Wastes" will be accepted at solid waste disposal facilities in Ionia County Presently that consists of the Pitsch Landfill in northwest Ionia County "Special Wastes," as described in Ionia County's Solid Waste Management Plan, consists of construction and demolition debris, foundry sand, sludge, contaminated soils, street sweepings, fly ash, slag, agricultural waste, and others These "Special Wastes" are Type II wastes, but exclude general Type II residential, commercial, and industrial wastes

As Ionia County updates its SWMP we will be listing your county as a potential exporter of "Special Waste" to Ionia County Ionia County's Solid Waste Planning Committee requests that your Solid Waste Management Plan records Ionia County as an importing County for this type of waste Some counties may desire that this type of arrangement be reciprocal and want their county to be recorded as an importing county for some of Ionia County's waste. If this is the desire of your Solid Waste Planning Committee, please contact me at your convenience.

Ionia County will most likely put an annual cap on the amount of waste permitted to be disposed of at the Pitsch Landfill in order to maintain sufficient capacity for Ionia County's future needs. This could put some restrictions on the use of Pitsch Landfill by your county, but under current conditions the need for restrictions seems to be very limited or even nonexistent.

If you have any questions or comments about Ionia County's intent in proposing this waste disposal relationship, please contact me with your questions or concerns. It is to be hoped that this type of arrangement will help provide your county, and Ionia County, with both primary and contingency capacity over the next ten years and beyond

Sincerely,

Don Lehman

Donald Lehman
Solid Waste Coordinator

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

ANCH AREA CAREERS CENTER
Serving Students for 20 Years

Berrien Co. (FYI)

We are included in (FYI)
an for Solid waste
Letter to follow

10-1-98

Good Education.... A Good Job.... A Good Life!

BRANCH AREA CAREERS CENTER
Serving Students for 20 Years

10-2-98

Wayne Co.
They will most likely
include all southern
Co. in their Solid waste
plan.
They are not at that pt yet

A Good Education.... A Good Job.... A Good Life!

ANCH AREA CAREERS CENTER
Serving Students for 20 Years

Hillsdale - Chas. Riesdorf

will be included
in their solid waste
Plan

Good Education.... A Good Job.... A Good Life!

BRANCH AREA CAREERS CENTER
Serving Students for 20 Years

Washtenaw
We are included in
Solid waste plan
per. Susan Todd
734-994 8179

A Good Education.... A Good Job.... A Good Life!

BRANCH AREA CAREERS CENTER
Serving Students for 20 Years

Genesee
Will include Br
in solid waste
Plan

Region 2 Planning Commission

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

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

November 2, 1998

Ms. Charlene Burch
Branch Co. Solid Waste Mgmt. Pl. Comm.
31 Division Street
Coldwater, MI 49036

Dear Ms. Burch:

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

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

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

Sincerely,

Deborah Kuehn

Deborah L. Kuehn
Principal Planner

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

Region 2 Planning Commission

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

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

October 14, 1998

Mr. Ken Strong
Branch County Drain Commissioner
31 Division Street
Coldwater, Michigan 49036

Dear Mr. Strong:

This letter is written in response to your request for inclusion in the Lenawee County Solid Waste Management Plan Update According to the proposed plan update, Lenawee County will allow intercounty flow of waste with the counties listed in the 1991 Lenawee County Solid Waste Plan. Therefore, the draft plan indicates that Branch County will continue to be eligible for intercounty exchange of waste with Lenawee County

The draft Lenawee County plan update contains the following conditions regarding the import of solid waste into Lenawee County:

1. *The total solid waste received at any Lenawee County facility shall not cumulatively exceed 6,600 tons per week. Using a six day operating week, the cumulative total is therefore equivalent to a 1,100 ton per day cap yet provides some latitude for typically encountered daily operating tonnage fluctuations.*

2. *Solid waste disposal facilities in Lenawee County shall accept all waste generated within Lenawee County. In order to ensure capacity for Lenawee County waste, solid waste disposal facilities shall, on a weekly basis, reserve capacity for 1,800 tons per week of Lenawee County solid waste. If Lenawee County waste disposal does not equal or exceed 1,800 tons per week at a Lenawee County solid waste disposal facility, the facility may accept additional waste from other authorized sources not to exceed the maximum weekly cumulative cap of 6,600 tons per week. This cap of 6,600 tons per week shall be a condition of consistency to the operation of a solid waste disposal facility.*

3. *Intercounty transfer of solid waste agreements shall not be required.*

4. *Counties exporting waste to Lenawee County shall comply with Lenawee County's policy to encourage waste reduction, reuse and recycling.*

The first draft of the solid waste plan will be reviewed at the October 22, 1998 meeting of the Lenawee County Solid Waste Management Planning Committee It is anticipated that the Plan update will be released for public comment before the end of the year

If you have any questions, please feel free to give me a call at (517) 768-6703

Sincerely,

Timothy Anderson
Senior Planner

County of Ottawa
Health Department

Environmental Health Division
12251 James Street Suite 200 Holland MI 49424-9675

(616) 393-5645
Fax (616) 393-5643

September 8, 1998

Ms. Charlene Burch
Branch County Courthouse
31 Division Street
Coldwater MI 49036

RE: Letter dated August 25, 1998

Dear Ms. Burch

Thank you for your letter regarding Branch County's intentions for establishing import and export authorizations with Ottawa County. The Ottawa County Solid Waste Management Plan Update will recognize 24 counties for import/export authorization. I have attached several pages from the most recent draft of our Plan Update for your review.

The Ottawa County Plan Update groups these 24 counties together in a market region and authorizes the import of a combined total of up to 1,500,000 tons per year. Ottawa County will also authorize the export of up to 100 percent of its waste stream to these 24 counties who authorize its acceptance. Branch County is included in our Plan Update.

Ottawa County does not intend to enter into any formal agreements with other counties beyond the requirements of PA 451, Part 115. If you have any further questions, please feel free to call me at 616/393-5638.

Sincerely

Darwin J. Baas
Solid Waste Management Coordinator

enclosure

PLANNING COMMISSION Telephone: (616) 467- 5617

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

DATE: April 20,1998

TO: All Lower Peninsula Designated Solid Waste Planning Agency Representatives

FROM: St Joseph County Solid Waste Planning Committee

RE: Solid Waste Management Plan Import/Export Arrangements

The St. Joseph County Solid Waste Planning Committee intends on listing all Lower Peninsula Counties as authorized exporters of Type II solid waste to St. Joseph County. Westside Landfill, located near Three Rivers, is owned and operated by Waste Management of Michigan and has a licensed life capacity of approximately 12 years In addition to the currently licensed capacity Westside has an additional 280 acres available for future development. Westside Landfill has a urrent annual cap of 1 75 million gate cubic yards of solid waste with St. Joseph County contributing approximately 255,000 gate cubic yards per year.

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

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

Please direct correspondence and inquires to:

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

Sincerely,

Craig Laurent, Environmental Consultant

WAYNE COUNTY

Edward H. McNamara
County Executive

July 21, 1998

Ms. Charlene Burch
Branch County Solid Waste Management Planning Committee
31 Division Street
Coldwater, MI 49036

ATTN: Ms. Charlene Burch
County Solid Waste Planning Agency

Dear Ms. Burch:

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

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

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

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

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

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

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

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

Very truly yours,

Robert H. Fredericks

Robert H. Fredericks, Director
Land Resource Management Division

REN S / SOLID WASTE

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

August 7, 1998

Ms. Carlene Burch
Branch County Solid Waste Mngmnt Planning
31 Division Street
Coldwater, MI 49036

Dear Ms. Burch,

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

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

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

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

Sincerely,

Susan Todd
Solid Waste Coordinator

Enc.

Authorized Importation of Solid Waste

From all sources, the Arbor Hills Landfill shall not receive more than 4 5 million gate cubic yards in any one year and no more than 17,500,000 gate cubic yards in the most recent consecutive five year period that concludes at the end of the current year of activity.

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

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

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

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

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

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

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

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

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

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

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

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

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

REPUBLIC SERVICES

From the mess that is the desk of

Andy Crow

1-800-359-2165 Auburn Office
1-800-232-8801 Ft. Wayne Office

To: Jeff Eves, American Hyrdrology

RE: Branch County SW Plan

Date: 1-6-99

Jeff,

For Table 2-A, page III-4 of the revised draft, our landfill at National Serv-All, Inc. at 6231 MacBeth Road, Fort Wayne, Allen County, Indiana, is currently licensed to receive up to 3,500 tons per day and 1,050,000 tons per year.

If you have need of any other information about our Company, please call me at 1-800-359-2165 at my Auburn, Indiana, office.

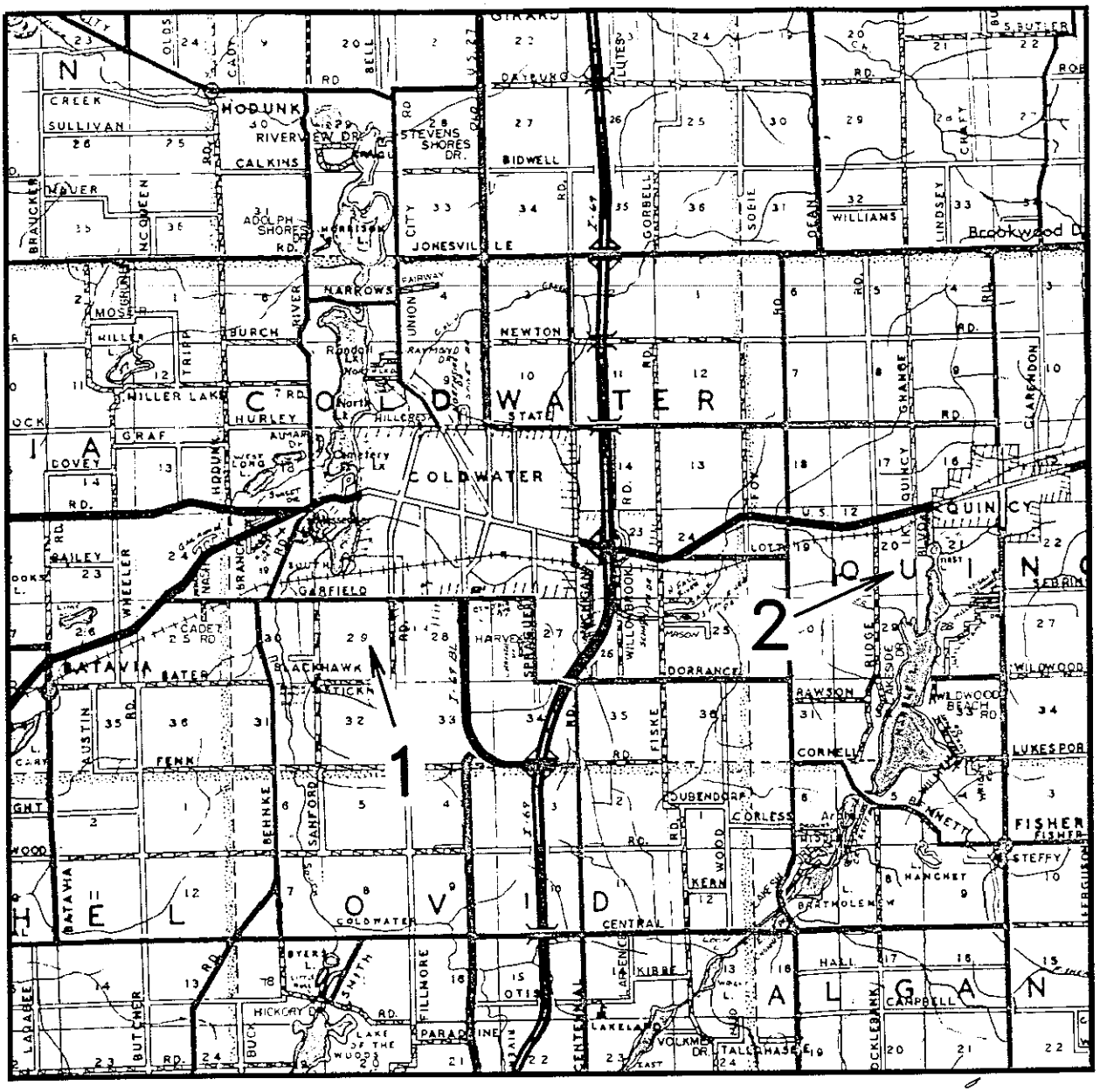
Andy Crow

FOR FAX TRANSMISSION THIS IS PAGE __1__ OF __1__.

Maps

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

The map on the following page depicts the location of the transfer stations within Branch County The locations of other solid waste disposal facilities located outside Branch County are described elsewhere in this Plan



1 — Coldwater Transfer Station
2 — Quincy Transfer Station

MAP LOCATION

N

BRANCH COUNTY SOLID WASTE MANAGEMENT PLAN

BRANCH COUNTY TRANSFER STATIONS

0 2 4 Miles

Approximate Scale

A4621

Inter-County Agreements

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

None.

Special Conditions

Special conditions affecting import or export of solid waste.

Not applicable.