

Hancock County Solid Waste Management District

DRAFT PLAN UPDATE

Solid Waste Management Plan

**Draft Amended Plan Submitted to Ohio EPA
Planning Period: 2013-2027**

October 2012



HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT

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www.hancockenvironment.com

Solid Waste Management Plan Update

**Reference Year: 2010
Planning Period: 2013-2027**

**2012 Plan Update
Draft Amended Plan Submitted to Ohio EPA
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I. INTRODUCTION

A. Plan Approval Date, Counties in District, and Planning Period Length

1. *Under current plan:*

Date of Ohio EPA approval:	October 9, 2007
Counties within District:	Hancock
Years in planning period:	15

2. *Plan to be implemented with approval of this document:*

Counties within District:	Hancock
Reference year for this Plan:	2010
Years in planning period:	15
Year 1 of planning period:	2013

B. Reasons for Plan Submittal

This Plan submittal is the mandatory five-year plan update.

C. Process to Determine Material Change in Circumstances

1. *Criteria for Determining Material Change*

In accordance with ORC 3734.56(D), the Plan must be revised if the Board of County Commissioners has determined that “circumstances materially changed from those addressed in the approved initial or amended plan of the district.” The following criteria will be monitored to determine if a material change in circumstances has occurred in the District, which may require a revision of the approved Plan:

- Change in the solid waste management facilities designated by the Plan. Solid waste management facilities are identified in the Plan to ensure waste disposal options for the District. The addition of a facility to the designated list need not be a material change. However, if a designated facility should close, be replaced, or otherwise be unable to handle District waste, the District would determine a material change, providing no suitable alternate facilities are available.
- Change in waste generation. A change in waste generation within the District that impairs the ability of designated and/or identified facilities to adequately process District generated waste and/or a change in waste generation within the District that impairs the ability of the District to financially fund programs would constitute a material change in circumstances.
- Change in the capacity available for disposal, transfer, composting, etc. Capacity shortfall to one or more waste management methods identified in the Plan would be deemed a material change if other waste management methods identified in the Plan, or waste management methods not identified in the Plan but deemed acceptable by the Policy Committee, were unavailable. However, if other waste management methods are capable of handling the capacity shortfall, the change in capacity would not be deemed a material change in circumstances.
- Change in strategies for waste reduction and/or recycling. Strategies for waste reduction and/or recycling are dependent upon many variable factors. The District is committed to

promoting recycling; however, changes in recycling markets and/or the recycling needs of the District would constitute a material change if they result in the discontinuation of strategies that are necessary in order to demonstrate compliance with required State Plan goals.

- Change in the availability of revenues for plan implementation. Any significant shortfall in revenues that (1) could not be addressed via implementation of revisions to the District's fees and (2) would result in a program discontinuation would be deemed a material change in circumstances if the lack of funding prohibits demonstration of required State Plan goals.
- Change in the procedures to be followed for plan implementation. Significant changes in the procedures for implementing the Plan would only be deemed a material change in circumstances if said changes would prevent District staff from implementing programs necessary to meet required State Plan goals.
- Change in the timetable for implementation of programs and/or activities. Significant changes or delays in program implementation would be deemed a material change in circumstances only if said changes resulted in non-compliance with State Plan goals.
- Change in the District structure. Any change in the existing District structure, such as the addition or subtraction of counties included in the District, would constitute a material change in circumstances.
- Change in the basic legal authority of the District. A change in the basic legal authority of the District due to future legislation or court decisions would be deemed a material change of circumstances.

2. *Monitoring Procedure*

The District's Board of County Commissioners (the Board) and the solid waste coordinator will monitor the changes indicated above on an annual basis by reviewing implementation of the approved plan and looking for indicators such as:

- An increase or decrease of 50% or more from the 2010 baseline, for two or more consecutive years, of waste quantities reported to Ohio EPA for solid waste disposal facilities used by the District.
- A significant decrease in remaining capacity in the District's permitted landfill facility, along with an absence of suitable alternatives, such that a capacity shortfall arises for the 15-year planning period.
- A decrease in District revenues or increase in the costs of programs and strategies planned by the District throughout the planning years, such that implementation costs exceed the available District revenues and the District is unable to fulfill required State Plan goals.
- A one year decrease of 50% or more in total recycling tonnage collected by local recycling activities.
- The loss of one or more entire recycling markets such that the District would be unable to recycle one or more of the required designated materials necessary to meet Goal #1 of the State Plan.

3. *Timetable for Analyzing the Determination*

Within 30 days after the Board makes a determination that a material change has occurred, the Board will call a meeting of the Policy Committee to analyze the change. The Policy Committee, after analyzing all factors affecting the change, will make an advisory recommendation to the Board as to whether a material change has occurred in the circumstances addressed in the approved Plan. If the Board makes such a determination, it is the Policy Committee's mandatory duty to make appropriate amendments to the Plan.

4. *Notification Procedure*

After the Policy Committee has decided that a material change has occurred, the Board will notify Ohio EPA and the municipal corporations and townships within the District of its intention to revise the Plan because of a material change in circumstances from those addressed in the approved Plan. The notification will explain in detail the change or changes that led to the decision.

D. District Formation and Certification Statement

The Hancock County Solid Waste Management District is an existing solid waste management district which was formed on March 7, 1989. The District has not undergone any reconfiguration; therefore, resolutions pertaining to the formation of the District will not be included in the Appendices (Appendix A). The following documents have been included in the appendices as listed below:

<u>Appendix</u>	<u>Documents</u>
A	Resolutions for District Formation (Omitted)
B	Copies of Public Notices for Public Hearing and Public Comment
C	Copies of Resolutions and Certification Statements Documenting Ratification
D	Identification of Consultants Retained for Plan Preparation
E	District Map
F.1	Industrial Recycling and Generation Survey Results
F.2	Residential and Commercial Recycling and Generation Survey Results
F.3	Recycler/Broker Recycling Survey Results
F.4	Double Counting Adjustments to Survey Results
G	Recycling Drop-Off Locations & Mobile Trailer Locations/Schedule
H	Program Analysis
I	Resolutions of Designation

E. Policy Committee Members

<u>Name</u>	<u>Title</u>	<u>Representing</u>
William Recker	Chairman	Public Representative
Edward Ingold		Board of County Commissioners
Lydia Mihalik		Mayor, City of Findlay
Edward Huffman		Township Representative
Lindsay Summit		Health District Designee
Greg McCartney		Solid Waste Generator Representative
Richard Kozolowski		Representative for General Interests of Citizens

F. Board of County Commissioners

The members of the Board of Hancock County Commissioners are as follows:

Emily A. Walton, D.V.M., Chairperson, Board of Hancock Commissioners
Phillip A. Riegler, Commissioner
Edward D. Ingold, Commissioner

G. District Address and Phone Number

Hancock County Solid Waste Management District

300 South Main Street
Findlay, Ohio 45840
Phone: (419) 424-7211
Fax: (419) 424-7828
Web: <http://www.hancockenvironment.com>
Contact: Robert Kras, SWMD Director

H. Technical Advisory Committee and Other Subcommittees

The District has not established a technical advisory committee or any other subcommittees.

II. EXECUTIVE SUMMARY

The overall goal of this Solid Waste Management Plan Update is to develop an integrated solid waste management program that will be implemented in an environmentally sound, technically feasible, cost effective, and publicly acceptable manner. The Plan and its implementation shall be consistent with the requirements of House Bill 592, the State Solid Waste Management Plan and the administrative rules, regulations, and procedures of the State of Ohio. In addition, the Plan has been developed to be consistent with the seven specific goals that the District wishes to achieve through the planning process, as described below:

1. To promote and protect the health, safety and welfare of the citizens of the District and to provide, through the provision of strict environmental regulations, the best quality of life and environment.
2. To ensure that all District citizens have an environmentally and economically viable method of solid waste disposal readily available.
3. To develop and implement waste reduction, reuse and recovery systems as alternatives to landfill disposal as projected for each year of the planning period of this plan.
4. To develop an integrated approach to solid waste management, meeting the needs of all municipalities and townships in the District.
5. To define management responsibilities and assign appropriate roles as needed to assure that necessary action is taken to implement the solid waste plan.
6. To implement the programs identified in the plan in a financially responsible manner, which means that to the extent that it is feasible, the programs should be self-funding and not subject the District to inappropriate financial risks.
7. To operate and maintain the Hancock County Sanitary Landfill in a safe and sanitary manner for the purpose handling all the solid waste disposal needs of the residents of the District.

A. Section III – Inventories

The purpose of this section is to provide an inventory of the landfill facilities, transfer facilities, incinerators, recycling activities and composting facilities that were utilized to manage waste that was generated within the District during the reference year, 2010. This section also provides an account of any known open dumps and scrap tire dumps as well as a list of all of the solid waste haulers operating in the District in 2010.

In 2010, the District disposed of 90,807 tons of waste in one in-district, seven out-of-district and one out-of-state landfill. Of this waste, 67,743 tons consisted of residential/commercial waste, 11,852 tons were industrial waste, and 11,212 tons were exempt waste. A very small quantity of District waste (0.03 tons) was reported as having been accepted at a solid waste incinerator in 2010. Approximately nine tons of waste was routed through transfer facilities.

The primary recycling opportunities available to District residents were Litter Landing, the District's processing and recycling center, and the network of permanent and mobile recycling drop-offs available throughout the District. In addition, there was one subscription curbside recycling service available in the City of Findlay. Residential, commercial, and industrial generators also utilized several brokers and private recyclers to manage to recyclable materials. Finally, approximately 3,739 tons of yard waste was managed at the five registered Class IV composting facilities located in the District.

B. Section IV – Reference Year Population, Waste Generation and Waste Reduction

This section establishes a reference year for the Plan update and provides data regarding the District's population, the amount of waste generated by both the residential/commercial and industrial sectors, the amount of recyclables collected from each sector, and the composition of the waste streams from each sector. This section also discusses the recycling, reduction, and reuse programs that were in place during the reference year.

This section establishes 2010 as the reference year for the Plan update. According to the Ohio Department of Development's Office of Strategic Research, the population of Hancock County in 2010 was 74,782 people. Excluding the portions of the City of Fostoria and the Village of Bluffton that reside in Hancock County, the total District population was calculated to be 71,677 people in 2010.

Residential/commercial waste generation was calculated using two methods. Using the national generation rate for 2010 of 4.43 pounds per person per day, total residential/commercial waste generation was estimated at 57,949 tons. Adding together the amount of waste disposed in landfills and the amount of waste recycled resulted in a total residential/commercial waste generation of 97,110 tons, or 7.42 pounds per person per day. Because the quantity of waste generated using the national average is less than the amount of waste that was reported as disposed in landfill facilities, this Plan update uses 97,110 tons as the basis for future projections for residential/commercial waste generation.

Industrial waste generation was also calculated using several methods. Although industrial generators were surveyed to determine total industrial waste generation, not all industrial generators responded to the survey. Therefore, this Plan update uses industrial generation based on the amount of waste disposed in landfills plus the amount of material recycled as the basis for future projections of industrial waste generation. Thus, 88,8810 tons is the quantity that is presented for the amount of industrial waste generated in 2010.

In the reference year, the District operated a network of 12 permanent recycling drop-offs and 12 mobile recycling drop-offs. These drop-offs, a privately-operated curbside recycling program, and the Litter Landing processing facility provided recycling opportunities to all District residents and businesses. The District also offered a number of collection opportunities targeted toward specific materials, including collection events for scrap tires, household hazardous waste, electronics and Christmas trees. Additionally, the District sponsored several programs targeted at litter prevention and cleanup, including the Adopt-a-Road program and Spring Clean Up Day. The District provided technical assistance to area businesses, governmental offices, and community service organizations to help them establish recycling programs and find markets for collected materials. The District conducted education and awareness activities for a wide variety of audiences, including school children and adult groups. Finally, the District addressed the management of yard waste by promoting the Don't Bag It / Backyard Composting program.

As determined through surveys and District information, approximately 29,367 tons of material was recycled from the residential/commercial sector and approximately 77,029 tons of material was recycled from the industrial sector.

C. Section V – Planning Period Projections and Strategies

This section of the Plan update establishes a 15-year planning period beginning January 1, 2013 and ending December 31, 2027. This section also provides information and data concerning projections for the District's population, generation rates for residential/commercial, industrial and exempt wastes, and amounts of material expected to be recycled from both the residential/commercial and industrial sectors. This section further describes any new programs, activities, or strategies that will be implemented and/or any changes to existing programs, activities or strategies that will be made during the planning period.

This District's population is expected to increase by approximately 4.7 percent during the planning period, from 72,288 people in 2013 to 75,660 people in 2027. With the expected increase in population, it is anticipated that the total amount of solid waste generated by the residential/commercial sector will also increase. Overall, residential/commercial waste generation is projected to increase from 97,938 tons in 2013 to 102,507 tons in 2027, an increase of 4.7 percent. The per capita residential/commercial generation rate is projected to remain constant throughout the planning period at 7.42 pounds per person per day.

According to the Ohio Department of Job and Family Services 2010 Economic Analysis, manufacturing is expected to decline by 17.7 percent between 2006 and 2016. Taking this into account, the total amount of industrial waste generated is expected to decrease from 84,244 tons in 2013 to 65,608 tons in 2027, a decrease of approximately 22.1 percent over the planning period.

Total waste generation, including exempt waste, is expected to decrease from 193,400 tons in 2013 to 179,333 tons in 2027, or a decrease of approximately 7.3 percent overall.

The amount of material to be recycled/reduced from the residential/commercial sector is projected to slightly increase from 33,240 tons in 2013 to 34,790 tons in 2027. For the industrial sector, the amount of material recycled/reduced is projected to decrease from 73,011 tons in 2007 to 56,860 tons in 2027.

The District is implementing several new programs in the planning period and all existing programs will continue to be provided. In addition, a few existing programs are expected to undergo some changes during the planning period. For the mobile and permanent recycling drop-off programs, the District expects to significantly expand the permanent drop-off program in 2013-2016, adding a total of at least 10 new sites, including a satellite donation center at the Hancock County Landfill. The District also expects to expand the scope of the Tire Collection Day and intends to offer collection of HHW, paint and electronics at Litter Landing, in addition to the one-time collection events. Finally, the District intends to add a once annual Paper Shredding Day to provide a venue to residents and businesses for secure destruction of paper documents.

D. Section VI – Methods of Management: Facilities and Programs to be Used

This section of the Plan update provides information regarding the methods the District will use to manage the solid waste that is projected to be generated throughout planning period. This Plan update demonstrates that the District will have access to adequate landfill disposal capacity through the presentation of a regional capacity analysis. This disposal capacity demonstration relies on one in-district landfill and seven out-of-district landfills. It is projected that approximately 96 percent of the waste that will be disposed in landfill facilities will be taken to the Hancock County Sanitary Landfill. A small amount of waste, approximately 22 tons, is projected to be routed through transfer facilities. This Plan update also projects that between 5,911 tons and 6,186 tons of yard waste will be managed annually through existing composting facilities.

E. Section VII – Measurement of Progress Toward Waste Reduction Goals

The 2001 *State Solid Waste Management Plan* (State Plan) mandates that solid waste management districts, in their solid waste management plans, demonstrate compliance with one of two overall recycling goals. The first of these goals, Goal #1, requires that solid waste management districts provide recycling opportunities to the residential and commercial sectors. The second goal, Goal #2, requires solid waste management districts to demonstrate achievement of established recycling/reduction percentages for both the residential/commercial and industrial sectors. The District has chosen to demonstrate compliance with both Goal #1 and Goal #2 of the State Plan. Solid waste management districts are also required to provide programs, activities, and strategies to achieve five other goals. The programs, activities, and strategies that the District is using to demonstrate compliance with these five goals are described in Section IV and V.

This section of the Plan update first provides the demonstration of the District's compliance with Goal #1. To successfully achieve Goal #1, a solid waste management district must demonstrate

that there are recycling opportunities available to at least 90 percent of the residential population and that commercial and institutional generators also have access to recycling opportunities. The demonstration in this Plan update shows that the District provided recycling opportunities to over 100 percent of the residential population in 2010 and will continue to provide opportunities to over 100 percent of the residential population during the planning period. In addition, commercial and institutional generators are provided the opportunity to recycle at Litter Landing.

Second, this section of the Plan update provides a demonstration of the District's compliance with Goal #2. To successfully achieve Goal #2, a solid waste management district must demonstrate that at least 25% of the residential/commercial waste generated, and at least 66% of the industrial waste generated, is recycled/reused/minimized. The demonstration in this Plan update shows that the District achieved a waste reduction rate of 30.2% in the residential/commercial sector and 86.7% in the industrial sector in 2010. Overall, the District's total waste reduction rate was 57.2%, or 8.13 pounds per person per day.

F. Section VIII – Cost and Financing of Plan Implementation

This section of the Plan update provides information regarding the funding sources that will be used to support the District as well as the expenses the District will incur as the result of providing the programs, activities, and strategies described in this Plan.

In 2010, the District was funded by a combination of revenue sources including a disposal fee, a generation fee, an exempt waste surcharge, and the sale of recyclable materials. All of these funding sources are expected to be utilized throughout the planning period.

Since 2008, the District's disposal fee has been set at a ratio of \$1.50:\$3.00:\$1.50. The District expects to maintain that disposal fee for much of the planning period; the District has projected the need to increase the fee to \$2.00:\$4.00:\$2.00 in 2023. The amount of revenue the District is projected to receive from the disposal fee in 2013 is \$255,659. Following the projected change to the disposal fee structure in 2023, the amount of revenue the District is expected to receive from the disposal fee in 2027 is \$347,512.

In 2008, the District instituted a \$1.50 per ton generation fee. As with the disposal fee, the District has projected the need to increase the generation fee to \$2.00 per ton in 2023. In 2013, the District is projected to realize \$120,470 in revenues from the generation fee. By 2027, the amount of revenue the District is projected to receive from the generation fee is \$167,507.

In addition to the two fees discussed above, the District intends to collect a surcharge on all exempt waste that is disposed at the Hancock County Sanitary Landfill. The amount of this surcharge will be equal to the amount of money the District would have collected on the exempt waste via the disposal and generation fees if the waste had been solid waste. In 2013, the surcharge is expected to earn the District \$40,665. In 2027, the District is projected to collect \$56,067 in revenues from the surcharge.

The District also receives revenue from the sale of recyclables. In 2013, the District is projected to receive \$336,600 from the sale of recyclables. By 2027, this amount is projected to increase to \$444,137.

In total, the District is projected to receive \$753,394 in revenues in 2013. By 2027, total revenues are projected to be \$1,015,223. The District's total expenditures for the 15-year planning period total approximately \$13 million. Annual expenditures will fluctuate year to year, but are expected to average approximately \$870,000. Approximately 64 percent of the total expenditures are earmarked for the operation, maintenance, and renovation of Litter Landing and operation of the Drop-Off Recycling Program.

The District's cumulative balance in the reference year was \$652,840. By the end of the planning period, the District projects that the cumulative balance will be approximately \$735,000.

G. Section IX – District Rules

Ohio Revised Code Section 3734.53 (C) provides for the creation of four types of local rules under the solid waste management plan. These rules may:

1. Prohibit, or limit, out of district solid waste from being received at facilities covered by the Plan. (The Director of the Ohio EPA can modify the legislation to order the District to accept waste from other solid waste districts within the State of Ohio.)
2. Govern the maintenance, protection and use of any current or proposed solid waste collection, disposal, transfer, and recycling or resource recovery facility within the District. Requirements for the submission and approval of construction, enlargement or modification plans may be set under this section.
3. Develop and implement inspection programs for solid waste generation outside the State that is disposed at solid waste facilities included in the Plan.
4. Exempt the owner or operator of an existing or proposed solid waste facility provided for in the plan from compliance with an amendment to a township or rural zoning resolution that rezoned or redistricted the parcel within two years preceding the filing an application with the Ohio EPA of a permit to open a new or modify an existing solid waste facility.

This section of the Plan update describes the existing and proposed rules of the District. The specific rules authorized by the District in the Plan are provided in Appendix I.

H. Plan Profile

Refer to Tables ES-1 through ES-4.

Table ES-1: General Information

District Name: Hancock County Solid Waste Management District		
District ID# (for OEPA use only)	Reference Year: 2010	Planning Period: 2013-2027
Plan Status: Draft		Reason for Plan Submittal: Plan Update

Table ES-2: District Coordinator

Name: Robert Kras		
Address: 300 South Main Street		
City: Findlay	State: Ohio	Zip: 45840
Phone: (419) 424-7211	Fax: (419) 424-7828	Email: rekras@co.hancock.oh.us

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE ES-3
PLAN DATA SUMMARY**

PLAN DATA				
		Reference Year	2013	2027
Population		71,677	72,288	75,660
Generation (TPY)	Industrial	88,881	84,244	65,608
	Residential/Commercial	97,110	97,938	102,507
	Exempt	11,218	11,218	11,218
	Total Generation	197,209	193,400	179,333
Waste Reduction (TPY)	Industrial Source Reduction	0	0	0
	Industrial Recycling	77,029	73,011	56,860
	Res/Com Source Reduction	0	0	0
	Res/Com Recycling	25,593	27,329	28,604
	Yard Waste Composting	3,739	5,911	6,186
	Incineration	0	0	0
	Ash Disposed	0	0	0
	Total Waste Reduction	106,361	106,250	91,650
Disposal (TPY)	In-District Landfill	87,473	83,916	84,593
	Out-of-District Landfill	3,374	3,233	3,090
	Total Landfill	90,847	87,149	87,683
Waste Reduction Rate (WRR)		57.2%	58.3%	54.5%

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE ES-4
EXISTING DISPOSAL FACILITIES**

Existing Disposal Facilities Used in the Reference Year (2010)				
NAME	COUNTY	DISTRICT TONS	TOTAL TONS	YEARS LEFT*
Hancock County Landfill	Hancock	87,433	136,719	40
Henry County Landfill	Henry	4	19,251	2
Celina Sanitary Landfill	Mercer	1	58,037	10
Wyandot County Env. Sanitary Landfill	Wyandot	2,918	168,900	NA
Evergreen R&D Landfill	Wood	269	277,714	34
Port Clinton Landfill	Ottawa	1	88,302	83
Sunny Farms Landfill	Seneca	168	1,025,423	3
Pine Grove Regional Facility	Fairfield	11	243,567	51

* Data provided reflects the remaining capacity in the reference year (2010).

III. INVENTORIES

The purpose of this section is to provide an account of the landfill facilities, transfer facilities, incinerators, recycling activities, and composting facilities that were used to manage waste that was generated from within the District during the reference year. This section also provides an account of any known open dump and scrap tire dumps as well as a listing of all solid waste haulers that operated within the District.

A. Reference Year

In accordance with ORC 3734.56(A), the District began preparation of its amended Plan at least 15 months prior to the mandatory submittal date for the draft amended Plan and established a reference year to be used for all subsequent projections in the plan. Ohio EPA has suggested that the reference year be the calendar year previous to the year in which the preparation of the amended Plan begins. These requirements determine the following important dates:

5. Last date for submittal of the draft amended Plan to the Director, Ohio EPA: October 9, 2012
6. Date by which the District should begin preparation of the amended Plan: July 9, 2011
7. Suggested reference year: 2010

B. Existing Solid Waste Landfills

Table III-1 presents information concerning the landfill facilities that were used by the District for disposal of solid waste generated within the District during the reference year.

In 2010, the District disposed of solid waste in a total of 9 landfill facilities. Of these, one was located within the District, 7 were located outside of the District but within the State of Ohio and one was located in the State of Indiana. Of the waste that was disposed in landfill facilities, approximately 99.5 percent was disposed at two landfill facilities, the Hancock County Sanitary Landfill and the Wyandot County Landfill. Approximately 96 percent of the waste that was disposed in landfills was disposed within the District at the Hancock County Sanitary Landfill. Approximately three percent of the waste disposed in landfills and 86 percent of all waste that was sent out of the District for disposal was taken to the Wyandot County Landfill.

A map displaying the location of the District's landfill can be found in Appendix E. Landfill information was collected from the Draft Hancock County Annual District Report Form for 2010, which is compiled from information submitted by the facility operators or owners to the Ohio EPA. Information regarding design capacity and remaining disposal capacity was obtained from the draft information prepared for the *2010 Annual Facility Data Report*.

C. Existing Incinerators and Resource Recovery Facilities

There are no resource recovery facilities or licensed or unlicensed solid waste incinerators located within the District. However, approximately 0.03 tons of waste generated in the District was delivered to the Stericycle, Inc. facility in Trumbull County in 2010. This information is presented in Table III-2 and was obtained from the Hancock County Annual District Report Form for 2010.

D. Existing Transfer Facilities

There were no transfer facilities located within the District in the reference year. However, private waste haulers operating in the District did deliver a small amount of waste generated within the District to one transfer facility located outside Hancock County in 2010. Approximately 8.7 tons of waste generated in the District was delivered to the Lima Waste Management Transfer Facility in Allen County and 0.2 tons of waste was delivered to the North Transfer Station in Montgomery

County. This information is presented in Table III-3. The information provided in Table III-3 was obtained from the Hancock County Annual District Report Form for 2010. The District did not utilize transfer stations located outside of Ohio. Thus, Table III-7 was not developed for this Plan update.

E. Existing Recycling Activities

There was one privately-owned residential curbside program in operation in the District in the reference year. This program was established in the District in 2002. Table III-4 presents information on this curbside program.

Table III-5 lists the recycling programs offered by the District in 2010. These programs included Litter Landing and the recycling drop-offs, HHW Collection Day, Litter Landing HHW & Paint Collection, Tire Recycling Days, Christmas Tree Recycling, Electronics Recycling Day, and the Hancock County Compost Facility.

In addition to District programs, Table III-5 also includes recycling performed by recycler/brokers, commercial businesses, and industry in the reference year. A survey of commercial business, industry, and recyclers/brokers was conducted to obtain this information, including the types and amounts of materials recycled. Sample copies of the survey forms are included in Appendix F. Recycling reported by the surveyed commercial and industrial entities is reported as “Private Sector Recycling” in Table III-5. Complete lists of the industrial, commercial and recycler/broker respondents are provided in Appendix F.1, F.2, and F.3, respectively.

All recycling quantities provided in Table III-5 are based on either District data (for District programs) or survey data, which was verified via telephone inquiry where appropriate. Recycling data provided in Table III-5 has not been adjusted for double counting.

F. Existing Composting/Yard Waste Management Facilities

There were five registered, Class IV composting facilities located within the District in the reference year, as shown in Table III-6.

G. Existing Open Dumps and Waste Tire Dumps

According to information provided by the Hancock County Health Department, there are no known open dumps or waste tire dumps located in the District. Therefore, Table III-8 was not developed for this Plan update.

H. Ash, Foundry Sand and Slag Disposal Sites

The District is not aware of any licensed or unlicensed facilities for the disposal of fly ash, foundry sand, or slag located within its boundaries. Therefore, Table III-9 was not completed for this Plan update.

I. Map of Facilities and Sites

A map of the District showing the location of recycling and disposal sites described herein is provided in Appendix E. Please note that this map also shows the locations of mobile and permanent drop-off locations in the District.

J. Existing Collection Systems – Haulers

Table III-10 provides the information regarding existing haulers in the District. This information was obtained from the Hancock County Health Department.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE III-1
LANDFILLS USED BY THE DISTRICT (2010)**

FACILITY NAME	TYPE OF LANDFILL	LOCATION		WASTE RECEIVED FROM THE SWMD (TPY)					REMAINING CAPACITY			
				RESIDENTIAL/ COMMERCIAL	INDUSTRIAL	EXEMPT	TOTAL	DATA SOURCE	YEARS	AIRSPACE (CUBIC YARDS)		DATA SOURCE
		COUNTY	STATE						GROSS	NET		
IN-DISTRICT FACILITIES :												
Hancock County Sanitary Landfill	PA	Hancock	OH	66,679	10,066	10,688	87,433	(1)	40	7,304,801	NA	(2)
OUT-OF-DISTRICT :												
Henry County Landfill	PA	Henry	OH	0	0	4	4	(1)	2	43,007	NA	(2)
Celina Sanitary Landfill	PA	Mercer	OH	0	0	1	1	(1)	10	804,190	NA	(2)
County Environmental of Wyandot	PA	Wyandot	OH	930	1,549	440	2,918	(1)	NA	21,703,659	NA	(2)
Evergreen Recycling & Disposal	PA	Wood	OH	116	124	29	269	(1)	34	9,784,567	NA	(2)
Port Clinton Landfill, Inc.	PA	Ottawa	OH	1	0	0	1	(1)	83	9,453,527	NA	(2)
Sunny Farms Landfill LLC	PA	Seneca	OH	18	99	51	168	(1)	3	4,167,252	NA	(2)
Pine Grove Regional Facility	PA	Fairfield	OH	0	11	0	11	(1)	51	18,165,168	NA	(2)
OUT-OF-STATE												
NA (Destination not specified)	NA	NA	IN	0	2	0	2	(1)	NA	NA	NA	
TOTALS				67,743	11,852	11,212	90,807					

Notes:

(1) Draft Annual District Report Form for 2010

(2) Table 13. Landfill Capacity and Daily Waste Receipt Amounts 2010 (from 2010 Ohio Solid Waste Facility Data Tables and Figures, provided by Ohio EPA)

Residential/Commercial waste includes asbestos.

Exempt waste includes construction and demolition debris (C&DD).

Remaining life in years is based upon actual receipts, not AMDWR.

NA - Not Available

PA - Publicly Available

PO - Privately Owned

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE III-2
EXISTING INCINERATORS AND RESOURCE RECOVERY FACILITIES USED BY THE DISTRICT (2010)**

FACILITY NAME	TYPE OF FACILITY	LOCATION		WASTE RECEIVED FROM THE SWMD (TPY)					TOTAL ASH PRODUCED (TPY)
				WASTE INCINERATED				BYPASS WASTE RECEIVED (TPY)	
				RESIDENTIAL/COMMERCIAL	INDUSTRIAL	EXEMPT	TOTAL		
COUNTY	STATE								
IN-DISTRICT FACILITIES :									
NA									
OUT-OF-DISTRICT :									
Stericycle, Inc.	PA	Trumbull	OH	0.03	0.00	0.00	0.03	(1)	NA
OUT-OF-STATE									
NA									
TOTALS				0	0	0	0		0

Notes:

- (1) Draft Annual District Report Form for 2010
- Residential/Commercial waste includes asbestos.
- Exempt waste includes construction and demolition debris (C&DD).
- Remaining life in years is based upon actual receipts, not AMDWR.
- NA - Not Available
- PA - Publicly Available
- PO - Privately Owned

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE III-3
SOLID WASTE TRANSFER FACILITIES USED BY THE DISTRICT (2010)**

FACILITY NAME	TYPE OF FACILITY	LOCATION		WASTE RECEIVED FROM THE SWMD (TPY)					RECOVERED RECYCLABLES	TOTAL RECYCLABLES RECEIVED & RECOVERED (TPY)
		COUNTY	STATE	RESIDENTIAL/COMMERCIAL	INDUSTRIAL	EXEMPT	TOTAL	DATA SOURCE		
Montgomery County North Transfer Facility	PA	Montgomery	OH	0.2	0	0	0.2	(1)	NA	NA
Waste Management of Ohio - Lima	PA	Allen	OH	8.7	0	0	8.7	(1)	NA	NA
TOTALS				9	0	0	9			

Notes:

- (1) Draft Annual District Report Form for 2010
- Residential/Commercial waste includes asbestos.
- NA - Not Available
- PA - Publicly Available

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE III-4
RESIDENTIAL CURBSIDE RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)**

CURBSIDE RECYCLING ACTIVITY (Name, Mailing Address, Phone)	TYPE OF CURBSIDE	# OF HOUSE-HOLDS SERVED	FREQUENCY OF COLLECTION	AVERAGE # OF HHs PARTICIPATING	SERVICE AREA		TYPES OF MATERIALS ACCEPTED	RECYCLABLES PROCESSED FROM THE SWMD (TPY)
					COUNTY	TOWNSHIPS / CITIES		
<u>AE Curbside Recycling Service</u> Sean Abbott 224 Prentiss Ave. Findlay, OH 45840 (419) 422-7771	S	640	Weekly	NA	Hancock	Findlay	Paper Cardboard Aluminum Cans Steel Cans Plastic Glass Batteries	NA
TOTALS		640						NA

Notes:

1. Tonnages are not tracked.
 2. All materials except aluminum are taken to Litter Landing; aluminum is taken to Variety Recycling.
 3. Number of households served is the actual number obtained from A&E Curbside.
- S - Subscription Service
 NS - Non-subscription Service
 NA - Not Available

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)**

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
<i>DROP-OFF PROGRAMS</i>										
LITTER LANDING	PA/DO	Paper Cardboard Ferrous Nonferrous Plastic Glass	Hancock	All	All	Monday 7 am - Saturday 6 pm	4,968	RES/COM - 95% IND - 5%	NA	NA
MOBILE RECYCLING TRAILERS	PA/DO	Paper Cardboard Aluminum Steel Plastic Glass	Hancock	All	All	Available on periodic basis in 12 different locations; refer to list of locations in Appendix G	NA; all materials taken to Litter Landing	RES/COM - 100%	NA	NA
RECYCLING DROP-OFFS (PERMANENT UNITS)	PA/DO	Paper Cardboard Aluminum Steel Plastic Glass	Hancock	All	All	Varies by location; refer to list of locations in Appendix G	NA; all materials taken to Litter Landing	RES/COM - 100%	NA	NA

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**TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)**

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
SPECIAL COLLECTION PROGRAMS										
HHW COLLECTION DAY	PA/DO	HHW	Hancock	All	All	1 day/year	18	RES/COM - 100%	NA	NA
LITTER LANDING HHW & PAINT COLLECTION	PA/DO	HHW	Hancock	All	All	Mondays May-Nov	27	RES/COM - 100%	NA	NA
LANDFILL APPLIANCE COLLECTION	PA/DO	Appliances	Hancock	All	All	Landfill: Year-round	12	RES/COM - 100%	NA	NA
TIRE COLLECTION DAYS & LANDFILL COLLECTION	PA/DO	Car and Truck Tires	Hancock	All	All	Events: 2 days/yr Landfill: Year-round	43	RES/COM - 100%	NA	NA
CHRISTMAS TREE RECYCLING	PA/DO	Christmas Trees	Hancock	All	All	3 weeks/year	3	RES/COM - 100%	NA	NA
ELECTRONICS RECYCLING	PA/DO	Electronics/Computers	Hancock	All	All	Events: 1 day/yr	30	RES/COM - 100%	NA	NA
COMPOSTING FACILITIES										
HANCOCK CO. LANDFILL	PA/DO	Yard Waste	Hancock	All	All	Mon-Fri 7:00-4:30 Sat 7:00-11:30	164	RES/COM - 100%	NA	NA
BILL MOYER TOPSOIL	COM	Yard Waste	Hancock	NA	NA	NA	346	RES/COM - 100%	NA	NA
CITY OF FINDLAY BROAD AVE. COMPOST	PA/DO	Yard Waste	Hancock	NA	NA	NA	3,026	RES/COM - 100%	NA	NA
LUKE THEIS	COM	Yard Waste	Hancock	NA	NA	NA	10	RES/COM - 100%	NA	NA
FINDLAY WAREHOUSING CO. INC.	COM	Yard Waste	Hancock	NA	NA	NA	193	RES/COM - 100%	NA	NA

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**TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)**

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
RECYCLERS/BROKERS										
FLAG CITY RECYCLING	BB	Ferrous Nonferrous Batteries White Goods	Hancock	All	All	NA	4,757	NA	NA	NA
ALL RECYCLING MANAGEMENT	BB	Ferrous Nonferrous	Hancock	All	All	NA	2,497	RES/COM - 100%	NA	NA
LOWE'S COMPANIES, INC.	BB	Cardboard Wood Plastic	Hancock	All	All	NA	80	RES/COM - 100%	NA	NA
VARIOUS SCRAP TIRE RECYCLERS, PER OEPA	BB	Tires	Hancock	All	All	NA	22,001	RES/COM - 100%	NA	NA
WALMART RECYCLING IN OHIO	BB	Paper Cardboard Ferrous Plastic	Hancock	All	All	NA	1,121	RES/COM - 100%	NA	NA
WERLOR RECYCLING	BB	Wood	Hancock	All	All	NA	43	RES/COM - 100%	NA	NA

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE III-5
DROP-OFFS, BUYBACKS, HAULER COLLECTION AND OTHER RECYCLING ACTIVITIES USED BY THE DISTRICT (2010)**

FACILITY / ACTIVITY NAME	TYPE OF FACILITY OR ACTIVITY	TYPES OF MATERIALS ACCEPTED	SERVICE AREA			HOURS AVAILABLE TO PUBLIC	RECYCLABLES PROCESSED FROM THE SWMD (TPY)	% OF MATERIAL FROM RES / COM / IND SECTOR	PROCESSING CAPACITY (TONS)	
			COUNTY	TOWNSHIPS / CITIES	# OF HOUSEHOLDS SERVED				DAILY (TPD)	ANNUAL (TPY)
COMMERCIAL SECTOR										
PRIVATE SECTOR RECYCLING (see Appendix F.2B for a list of companies)	COM	Paper Cardboard Wood Ferrous Nonferrous Plastic Oil Batteries White Goods Tires Yard Waste	Hancock	All	All	NA	13,385.30	COM - 100%	NA	NA
INDUSTRIAL SECTOR										
PRIVATE SECTOR RECYCLING (see Appendix F.1 for a list of companies)	IND	Paper Cardboard Wood Ferrous Nonferrous Plastic Oil Non-Haz Chemicals Batteries White Goods Tires Yard Waste	Hancock	All	All	NA	77,168.36	IND - 100%	NA	NA

Notes:

Double counting has not been adjusted.

All data obtained from 2010 surveys.

PA - Publicly Available

PUO - Private Use Only

BB - Buyback; BR - Broker; DO - Drop Off; SY - Scrap Yard; RES - Residential; COM - Commercial; IND - Industrial

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE III-10
SOLID WASTE HAULERS OPERATING IN THE DISTRICT (2010)**

NAME OF HAULING COMPANY	MAILING ADDRESS	CITY	STATE	ZIP CODE	DESCRIPTION OF COLLECTION ROUTES	TONS COLLECTED FROM DISTRICT (TPY)	FACILITIES USED BY HAULER
A&E Curbside	P.O. Box 682	Findlay	OH	45840			
Allied Waste of Carey	11164 C-4	Carey	OH	43316			
Alt Refuse, Ltd	P.O. Box 260	Ottawa	OH	45875			
Benchmark Preservation	217 Wein St.	Spencerville	OH	45887			
Bill's Rubbish	P.O. Box 1312	Findlay	OH	45840			
Butler Disposal Service	8434 T-95	Rawson	OH	45881			
C&A Disposal	12050 CR 109	Findlay	OH	45840			
Carl's Rubbish	230 Park Dr. S.	McComb	OH	45858			
Curt's Hauling	P.O. Box 1714	Findlay	OH	45839			
Dave's Hauling	P.O. Box 1226	Findlay	OH	45840			
Double K Sanitation	410 E. Findlay St.	Carey	OH	43316			
G.I.B.S.	546 W. Fourth St.	Fostoria	OH	44830			
Gregory Seek	425 Monroe Lot #16	Findlay	OH	45840			
Griffith Trash Pickup Service	P.O. Box 2002	Cridersville	OH	45806			
H&O Services LLC	P.O. Box 923	Findlay	OH	45840			
Hancock Disposal	2321 W. Skyview Dr.	Findlay	OH	45840			
J&N Hall-ers	2668 C-10	Ada	OH	45810			
J&T Rubbish	809 N. Hill Trail	Findlay	OH	45840			
JC Hauling	720 Apple Blossom Ln.	Arlington	OH	45814			
Jesus Vela	431 Scott Ave.	Findlay	OH	45840			
K.C. Hauling	2124 TR 42	Mt. Cory	OH	45868			
Karl's Hauling	1590 S. SR 53	Tiffin	OH	44883			
Kice Enterprises LLC	P.O. Box 439	Arlington	OH	45814			
Lewis Disposal	4104 T-238	Arcadia	OH	44804			
Marvin's Rubbish	P.O. Box 14	McComb	OH	45858			
N.A.T. Transportation, Inc.	11101 Pemberville Rd.	Bradner	OH	43406			
Osborne Roll-off Service	4625 E. Lincoln Hwy	Columbus Grove	OH	45830			
Patterson Sanitation Service	220 Summit St.	North Baltimore	OH	45872			
Paul's Commercial Hauling	P.O. Box 207	Findlay	OH	45840			
R&B Hauling Service	P.O. Box 892	Findlay	OH	45839			
R&S Hauling	208 E. Ash Ave.	Findlay	OH	45840			
RD Lehman Solid Waste Hauler	4505 C-26	Rawson	OH	45881			
Rettig Rubbish Removal	4700 T-39	Rawson	OH	45881			
S&K Rolloff Services LLC	6260 N. Phillips Rd.	Bluffton	OH	45817			
Solutions LLC	1331 Broad Ave., Suite 6	Findlay	OH	45840			
Turtles Hauling	1621 Bank St.	Findlay	OH	45840			
Waste Management - Lima	1550 E. Fourth St.	Lima	OH	45804			
Waste Management of Ohio	6525 Wales Rd.	Northwood	OH	43619			

IV. REFERENCE YEAR POPULATION, WASTE GENERATION AND WASTE REDUCTION

A. Reference Year Population and Residential/Commercial Waste Generation

1. Population

According to the Ohio Department of Development's Office of Strategic Research, the population of Hancock County in 2010 was 74,782 people, as obtained from the 2010 U.S. Census.

Ohio law requires that the entire population of a municipality or village that straddles solid waste management district boundaries be considered in the population estimate for the district where the majority of the population of the municipality or village resides. There are two communities that are located partially within the District and partially in other solid waste management districts. Portions of the City of Fostoria and the Village of Bluffton are located in Hancock County; however, the majority of the populations of Fostoria and Bluffton are located in Seneca County and Allen County, respectively. Thus, the population of the District has been adjusted to exclude the populations of the portions of Fostoria and Bluffton located within Hancock County.

As stated previously, the total population of Hancock County in 2010 was 74,782 people. According to the 2010 Census, the populations of the portions Fostoria and Bluffton that are located within Hancock County were 2,932 and 173 people, respectively. Therefore, as shown in Table IV-1, the estimated population for the District for the reference year is 71,677 people.

2. Generation Rate

The waste generation for municipal solid waste was calculated using the U.S. EPA report *Municipal Solid Waste in the United States: 2010 Facts and Figures*. This is the latest available publication in a series of publications describing the national waste stream. According to this report, the national average per capita generation rate in 2010 was 4.43 pounds per capita per day. Multiplying this generation rate times the population of the District in 2010 results in an estimated residential/commercial waste generation of 57,949 tons for 2010, as shown in Table IV-1.

B. Industrial Waste Generation

The District conducted a survey of the industrial sector to attempt to estimate industrial waste generation for the reference year. The list of surveyed industrial entities was compiled using the 2010 Harris Ohio Industrial Directory. A total of 120 surveys were sent to the industrial sector and 37 responses were received, an equivalent response rate of 31%. Although this response rate appears low, it should be noted that the responding businesses represented 82% of the total industrial population of Hancock County. Copies of the survey forms and survey results are included in Appendix F.1.

To determine the amount of industrial waste generated in 2010, three different calculation methods were employed. The results of each method were then compared to determine which provided the most accurate estimate of industrial waste generation during the reference year. Table IV-3 provides the results from the first method, which was based on generation as reported by survey respondents. That is, the District estimated the non-responding industry generation by multiplying the number of non-respondent employees in each Standard Industrial Classification (SIC) category by the average respondent generation rate. A sample calculation is provided on Table IV-3. This method yields a total industrial waste generation for the District of 184,356 tons.

While estimating the non-respondent industries from received responses is generally the method recommended by Ohio EPA to calculate waste generation, a second method may be employed in certain circumstances. In particular, "if the number of responding industries is less than 20 for a given SIC category, if the largest facilities have not responded to the survey, or if the number of

facilities in the district for a particular SIC category is very small, the district should consider using the values presented in Table JJ-2” of the *District Solid Waste Management Plan Format (Version 3.0)*. These conditions are satisfied as all of the SIC categories within the District had less than 20 responding industries. Thus, the second method used by the District was to calculate the industrial waste generation by using Table JJ-2 of the Format. The total industrial waste generation calculated using this method was 108,947 tons, as shown in Table IV-3A.

Finally, for the third method, industrial waste generation was calculated by adding the quantity of waste from the District reported as having been disposed in landfill facilities to the quantity of industrial material reported as having been recycled in the reference year. According to the Draft Hancock County Annual District Report Form for 2010, prepared by Ohio EPA, landfill facilities reported receiving 11,852 tons of industrial waste for disposal in 2010. With the addition of the recycling efforts of 77,029 tons obtained from recycling surveys, the total industrial waste generation for the 2010 reference year was calculated as 88,881 tons. For the purposes of this Plan update, the actual quantity of 88,881 tons will be used as the industrial waste generation for the reference year.

C. Exempt Waste Generation

This category of waste includes all waste disposed in landfills which is not characterized as solid waste, including construction and demolition debris (C&DD). According to the Draft Hancock County Annual District Report Form for 2010, a total of 11,212 tons of exempt waste from the District was disposed in landfill facilities in 2010, including 11,054 tons of C&DD and 159 tons of other exempt waste. These quantities are presented in Table IV-4.

D. Total Waste Generation

Using the information generated in the previous sections, Table IV-5 presents the total waste generation for the District in 2010. Total waste generation includes residential/commercial solid waste, industrial solid waste, and exempt waste totaling 178,108 tons.

Note that the quantity presented for residential/commercial waste is based on national generation rates. As is explained later in this section, this Plan update uses an alternate quantity for the amount of waste generated for the residential/commercial sector in 2010. The same is true for the quantity of industrial waste generated in the reference year. The quantity that is presented in Table IV-5 was estimated using the method presented in Appendix JJ of the Format (the second method discussed in Section B). The quantities that are used as the basis for future projections for both residential/commercial and industrial waste generation were determined by adding the amount of waste disposed in landfills and the amount of material recycled in 2010 (see Section G).

E. Reference Year Waste Reduction

This section contains a discussion of the solid waste reduction and recycling efforts undertaken within the District via the strategies employed for waste reduction and recycling.

1. Residential/Commercial Sector

The amount of solid waste reduced through source reduction, recycling, incineration, and composting for the residential/commercial sector in 2010 was 29,367 tons, as presented in Table IV-6. All quantities presented in Table IV-6 were derived from actual quantities as reported through commercial and recycler surveys as well as District data on special collections (as provided in Appendix F.2 and F.3). Further, all quantities presented in Table IV-6 have been adjusted to eliminate double counting. These adjustments are presented in Appendix F.4.

It should be noted that the residential/commercial waste reduction data has been amended since submittal of the 2010 Annual District Report (ADR) to the Ohio EPA. Upon submittal of the ADR, residential/commercial recycling was reported to be 20,598 tons. However, at the time of

the ADR submittal, the 2010 survey was not yet complete; the ADR utilized data for calendar year 2009. For the purposes of this Plan update, the District utilized the data collected from the 2010 survey, as reflected in Appendix F.

An inventory of the waste reduction and recycling programs that were available in 2010 as well as the commercial and recycling entities that reported recycling quantities via the 2010 survey were presented in Table III-5 in Section III. The following narrative describes all of the existing activities and programs that were performed and funded by the District as a part of the District-wide residential/commercial recycling efforts in the reference year. For planning purposes, all activities and programs implemented prior to December 31, 2010 are considered existing. Programs or activities implemented after 2010 are considered new and are discussed in Section V. A discussion regarding the assumptions associated with future projections of the quantities of material to be recovered from each program is also provided in Section V.

Existing Recycling Activities	Year of Initiation
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Spring Clean-Up Day	1983
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Spring Clean-Up Day is a countywide litter collection and beautification effort. It is typically held on the last Saturday in April and is part of the litter awareness campaign “Keep Hancock County Beautiful,” which is a paid affiliate of the nationwide Keep America Beautiful Campaign and the Great American Clean Up. Roadway cleanups, river cleanups, other litter collection activities, tree and flower plantings, and removal of graffiti are characteristic projects that occur as part of this campaign, which runs from the beginning of April to the end of May.

Volunteers participating in litter collection projects on Spring Clean Up Day are encouraged to separate recyclable materials from general trash for recycling at Litter Landing. The District provides bags and materials for these events and staff from Litter Landing collect and transport the bagged recyclables and trash to Litter Landing and the Hancock County Sanitary Landfill, respectively. Additionally, a luncheon is held on Spring Clean Up Day to reward all the volunteers that participated in Spring Clean Up Day and the Keep Hancock County Beautiful program.

The District publicizes Spring Clean-Up Day through news releases and advertisements in the *Findlay Courier* and on local radio stations. The event is also promoted through the District’s booth at the Leisure Living Show in March, the District’s website and online on various community calendars.

Responsible entities: The District provides the funding for Spring Clean-Up Day and District staff plan and oversee implementation of the event. Labor for the event is provided by volunteers from various community and youth organizations such as the Girl Scouts, Boy Scouts, and 4-H. In 2010, approximately 1,500 volunteers participated in the event.

Service area that benefits: Projects associated with Spring Clean-Up Day are performed District-wide; thus, the entire county benefits from this activity.

Amount and type of material reduced and/or recycled: As this event is primarily focused on cleaning up litter, there are no specific materials that are targeted for recycling. Recyclables are collected and taken to Litter Landing to be processed, but a discrete quantity cannot be associated with this activity.

Strengths of the program: Spring Clean-Up Day is a high-profile event that helps to promote the District and its activities within the county. There is strong participation in the event.

Weaknesses of the program: Spring Clean-Up Day does not result in reportable quantities of recyclable materials being collected. As a result, it is not possible to determine to what extent this program helps the District achieve its waste reduction and recycling goals.

Tire Collection Days & Landfill Collection	1996
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A Tire Collection Day was held on June 12, 2010. This event is typically held once a year during the summer. In addition, tires are accepted year-round at the Hancock County Sanitary Landfill

and are transported to scrap tire processors. The cost for tire disposal at the landfill includes the regular fees plus a scrap tire surcharge.

Only non-commercial generators are permitted to bring tires to the Tire Collection Days. Although residents are not charged to participate, each participant must provide proof of their residency in Hancock County. Furthermore, each participant is limited to four tires, each vehicle is limited to eight tires, and all tires must be 17 inches or less in diameter and be off the rim. Cooper Tire & Rubber co-sponsors the event, providing labor and collection trailers. Cooper Tire & Rubber also transports the collected tires to a scrap tire processor. As with all of the collection programs, the Tire Collection Days are promoted via news releases, advertisements in the *Findlay Courier*, the District's booth at special events, the District website and various on-line community calendars.

Responsible entities: The District provides funding for the processing of the tires collected at the Tire Collection Days and also provides advertising for the events. District staff plan and oversee implementation of the events. Cooper Tire & Rubber provide labor, trailers, and hauling services. Community volunteers also provide labor. Collection at the landfill is overseen by staff of the Hancock County Sanitary Landfill.

Service area that benefits: Tire Collection Days and the landfill are open to all Hancock County residents.

Amount and type of material reduced/recycled: Scrap tires, primarily passenger and light duty truck tires, are the targeted material. In 2010, approximately 2,000 tires were collected at the events and 1,800 tires were collected at the landfill, a total of approximately 43 tons.

Strengths of the program: The Tire Collection Days and the ongoing collection at the landfill provide much needed outlets for a waste stream that is difficult to manage through other means.

Weaknesses of the program: While the landfill collection does accept truck and tractor tires for a fee, these larger tires are not accepted at the Tire Collection Days. Thus, a significant portion of the scrap tires generated in Hancock County, which is predominantly rural, are not addressed via the free annual tire collection events.

Don't Bag It / Backyard Composting Program

1993

The primary focus of this program is on (1) encouraging residents to leave grass clippings on their lawns instead of bagging the clippings for disposal and (2) promoting backyard composting as a management method for yard waste and other biodegradable materials.

The program is primarily a public education and awareness program that is carried out through promotional opportunities (community events and presentations) and a brochure that is maintained by the District. The program is promoted through presentations to community adult organizations and the brochure is made available at special events and upon request at the District office. In addition to these District activities, the Ohio State University Extension Hancock County Office offers workshops on backyard composting through their Master Gardeners program.

Responsible entities: The District provides the funding for this strategy and District staff is responsible for its promotion.

Service area that benefits: This program is directed to all residents of Hancock County.

Amount and type of material reduced/recycled: Yard waste is the material targeted by this program. No quantifiable amounts of material are associated with this program.

Strengths of the program: This program targets one of the materials comprising the largest percentage of the solid waste stream.

Weaknesses of the program: Because it is educational in nature, no specific quantities of material reduced or recycled can be attributed to the program.

Christmas Tree Recycling

1993

This program is offered from December 26th through mid-January to residents of Hancock County. There are seven drop-off locations that are established around the County where residents can take

their used Christmas trees. Within the City of Findlay, the City collects the trees from residents and transports them to the designated drop-off locations. Collected trees are either chipped for use as mulch or are used to create wildlife habitat.

Responsible entities: The District provides the funding for advertising the event and the cost of hauling; District staff plan and oversee its implementation. The City of Findlay provides collection service to residents of the City. Chipping service is provided as a donation by the Hancock-Wood Electric Company.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Christmas trees are the material targeted by this program. In 2010, an estimated 300 trees were collected.

Strengths of the program: The program provides a management alternative for a bulky and difficult to manage waste stream.

Weaknesses of the program: It has historically been difficult to obtain an accurate count of trees collected and calculate a quantifiable weight of material managed through the program.

Household Hazardous Waste Collection Day

1996

This annual event was offered in 2010 on September 11th at the Agricultural Service Center in Findlay. Residents are permitted to bring most household hazardous wastes, with the exception of explosives, ammunition, and radioactive materials. There is no charge to participate, however participants are required to provide proof of residence in Hancock County. Labor and collection services are provided by a contractor. Promotion of the event is achieved via news releases, advertisements in the *Findlay Courier*, information provided at the District's booth at special events, and various on-line community calendars.

Responsible entities: The District provides the funding for the event and District staff plan and oversee its implementation. Labor for the collection day is provided by a hazardous waste contractor, as well as District staff and volunteers.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Household hazardous wastes, such as paint, paint thinners, antifreeze, fuels, and mercury, are the materials targeted by this program. In 2010, a total of 18 tons of household hazardous waste were collected and recycled through this program.

Strengths of the program: This collection event is very popular with District residents and provides a safe management option for one of the more dangerous portions of the residential/commercial waste stream.

Weaknesses of the program: The program is relatively expensive to provide.

Litter Landing HHW & Paint Collection

2010

This program was offered for the first time in 2010. Through this program HHW and paints were collected at Litter Landing on Mondays from May to November. In 2010, collection was limited to latex, aluminum and oil-based paints; aerosol paint cans; aerosol pesticides; and compact fluorescent and HID bulbs. Items are collected free of charge to Hancock County residents. The program is co-sponsored by Radar Environmental Services

Responsible entities: The District provides the funding for the program and District staff oversees its implementation. Labor for the collection day is provided by Litter Landing staff and a hazardous waste contractor.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Household hazardous wastes, including paint, aerosols and light bulbs, are the materials targeted by this program. In 2010, a total of 27 tons of household hazardous waste were collected and recycled through this program.

Strengths of the program: This collection event is very popular with District residents and provides a safe management option for one of the more dangerous portions of the residential/commercial waste stream.

Weaknesses of the program: In 2010, the program did not provide collection of all types of HHW, only paint, aerosols and light bulbs. The program is also relatively expensive to provide.

Electronics Collection Day

2004

This is a one-day collection event offered annually to District residents to provide a management alternative for electronics, such as televisions, computer monitors, computers, and cell phones. The event was held in 2010 on August 21st and a total of 323 televisions, 396 monitors and 339 CPUs were collected and recycled (30 tons). There were 531 cars participated in the event. Creative Recycling Systems was contracted to collect the electronic materials. Promotion of the event is achieved via news releases, advertisements in the *Findlay Courier*, and information provided at the District's booth at special events.

Responsible entities: The District provides the funding for the event and District staff plan and oversee its implementation. Labor for the collection day is provided by a contractor.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Electronics, such as televisions and computer monitors, are the materials targeted by this program. In 2010, a total of 30 tons of electronic units were collected and recycled.

Strengths of the program: This collection event is very popular with District residents and provides a safe management option for this portion of the residential/commercial waste stream.

Weaknesses of the program: Because the program is a temporary collection event, it does not provide residents with a permanent outlet for managing electronics.

Adopt-a-Road

1994

This program is designed to clean-up county and township roadways throughout Hancock County. Through this program, interested parties "adopt" a two-mile section of county or township roadway and agree to keep it clean and free of litter and debris by conducting cleanups a minimum of four times per year for a two year period. In appreciation of their efforts, and to give the groups recognition, a sign is posted on either end of the group's section of the roadway. The District runs two newspaper advertisements per year to promote the program, sends notices to community service organizations to attract new participants, and includes information regarding the program at the District booth at special events.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation. Labor is provided by volunteers from various community organizations.

Service area that benefits: Anyone within the District can participate and any county or township roadway is eligible for inclusion in the program.

Amount and type of material reduced/recycled: As this event is primarily focused on cleaning up litter, there are not specific materials targeted for recycling. Recyclables are collected and taken to Litter Landing to be processed, but a discreet quantity cannot be associated with this activity.

Strengths of the program: The cost to the District to implement this program is relatively minimal and the program provides support for an environmental issue that directly impacts residents of the District.

Weaknesses of the program: This activity does not result in reportable quantities of recyclable materials being collected. As a result, it is not possible to determine to what extent this program helps the District achieve its waste reduction and recycling goals.

Litter Crew

1990

This program is an extension of the Adopt-a-Road and Litter Landing programs. As part of the Adopt-a-Road program, the Litter Crew picks up litter on county roads throughout the District that are not managed by Adopt-a-Road volunteers. Additionally, the Litter Crew also responds to calls received by the District and/or the sheriff's department regarding dump sites along public roads. As part of the Litter Landing program, this crew picks up recyclables collected at a portion of the businesses and government offices serviced by Litter Landing.

Responsible entities: The District provides the funding for this activity, including salary, vehicle, and fuel costs. District staff plan and oversee its implementation.

Service area that benefits: This program benefits all residents in Hancock County via the management of roadside litter; commercial, industrial, and governmental entities provided recycling pick-up service by the crew are also directly benefited.

Amount and type of material reduced/recycled: The materials collected on the business recycling routes vary from location to location, but typically include glass, plastics, nonferrous metals, ferrous metals, corrugated cardboard, and paper. All recyclables collected, both from the roadside litter pickup and the business recycling routes, are taken to Litter Landing for processing. As such, the quantity of material collected through the units is not available as a discrete number but is included in the total amount reported for Litter Landing.

Strengths of the program: Both the litter and recycling aspects of this program are highly utilized and provide important services to the District.

Weaknesses of the program: Historically, there has not been sufficient manpower to meet the demand for this program, especially for the business recycling routes. There are many more businesses that request recycling services than Litter Landing and the Litter Crew can accommodate.

Litter Landing

1983

Litter Landing is the material recovery facility (MRF) owned by the Hancock County Board of Commissioners located in the City of Findlay. The facility is operated by the District and consists of processing and donation centers. There are four vertical balers, one horizontal baler, a can sorter and two glass crushers at the facility that are used to process material that is received. All material that is collected through community-based programs, such as the drop-off recycling locations, is brought to Litter Landing for processing. Material from individual residents and commercial and industrial businesses is also accepted and processed at the facility. The donation center is open 24 hours per day, seven days per week and is manned Monday through Saturday from 8:00 am to 3:00 pm.

Materials that are collected and processed at Litter Landing are shipped to at least ten major vendors located in Ohio and Indiana. The District maintains a brochure that lists all of the materials that are accepted at Litter Landing, how the materials should be prepared prior to dropping them off, and the hours that the donation center is open to the public. This information is also available on the District website. Tours of Litter Landing are available to groups and organizations upon request.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation.

Service area that benefits: Litter Landing is available to all residents and businesses in Hancock County.

Amount and type of material reduced/recycled: The materials collected and processed at Litter Landing include glass, plastics (#1,2,3,5,7), nonferrous metals (aluminum cans, scrap aluminum, copper), ferrous metals (steel cans, scrap steel), corrugated cardboard, paper (newspaper, magazines, catalogs, telephone books, books, office paper, mail, cardstock) and electronics. In 2010, 4,968 tons of material was processed at Litter Landing.

Strengths of the program: Litter Landing provides for the collection of a wide range of materials from residential and commercial sources. The donation center is open 24/7, providing for strong participation.

Weaknesses of the program: There is significantly more demand than the facility can accommodate. The current processing and storage capacity are maximized and the layout is not amenable to significant expansion, especially to allow proper access for large trucks from industry and commercial businesses. Additionally, Litter Landing is expensive to operate.

Permanent Drop-Off Recycling Units

2001/2002

In 2010, the District operated 11 permanent drop-off recycling locations, plus a donation center at Litter Landing, to provide District residents with recycling opportunities (refer to Recycling Drop-Off Locations in Appendix G). The units at each of these locations are permanent, modular units and are available 24 hours a day, seven days a week. Each unit has five compartments with removable bins for collecting source separated materials. Corrugated cardboard, newspaper, magazines, aluminum, plastics, and steel cans are collected at each unit. In addition, in 2010 the Mt. Blanchard location also accepted glass. The units are serviced by staff from Litter Landing and the recyclable materials are taken to Litter Landing for processing. Each permanent drop off is serviced at least twice a week or more often as necessary. Availability of the permanent recycling units is advertised through newsletters and brochures, on the District website, and at the District booth at special events.

Responsible entities: The District provides the funding for the permanent drop-off units and District staff plan, promote, and oversee their implementation as part of the Litter Landing program.

Service area that benefits: The permanent recycling units are offered at 12 specific locations within the District, but are available for use by all residents and businesses within the District.

Amount and type of material reduced/recycled: The materials collected through the permanent recycling units are paper, cardboard, aluminum cans, steel cans, plastics, and glass. All materials collected via the recycling units are taken to Litter Landing for processing. As such, the quantity of material collected through the units is not available as a discrete number but is included in the total amount reported for Litter Landing.

Strengths of the program: The permanent recycling units provide residents with additional opportunities to recycle and are an integral part of the District's implementation of State Plan Goal #1, the "access goal," within the District.

Weaknesses of the program: The collection from the permanent recycling location is a labor intensive process and significant expansion of the program is somewhat limited by the processing constraints at Litter Landing.

Mobile Drop-Off Recycling Units

2000

The District operates three mobile recycling trailers, which provide service to a network of six rural locations in villages/townships in the District and six urban locations in the City of Findlay. The trailers are available at each site at a regularly scheduled time once or twice a month (refer to Mobile Trailer Locations & Schedule in Appendix G). Cardboard, paper, magazines, aluminum and steel cans, plastic containers, and glass are collected at all 12 sites. The recycling trailers are serviced by staff from Litter Landing and the recyclable materials collected are taken to Litter Landing for processing. Advertising the availability and schedule of the mobile recycling units is the responsibility of each of the sponsoring communities.

Responsible entities: The District provides the funding for the mobile units and District staff plan, promote, and oversee their implementation as part of the Litter Landing program.

Service area that benefits: The mobile recycling units are offered at 12 specific locations within the District, but are available for use by all residents and businesses within the District.

Amount and type of material reduced/recycled: The materials collected through the mobile recycling units are paper, cardboard, aluminum cans, steel cans, plastics, and glass. All materials collected via the mobile recycling units are taken to Litter Landing for processing. As such, the quantity of material collected through the units is not available as a discrete number but is included in the total amount reported for Litter Landing.

Strengths of the program: The mobile recycling units provide residents with additional opportunities to recycle and are an integral part of the District’s implementation of State Plan Goal #1, the “access goal,” within the District.

Weaknesses of the program: Much like the permanent recycling units, operating the mobile units is a very labor intensive process. Additionally, the demand for the mobile trailers has historically exceeded their availability.

Curbside Recycling Program

2004

Subscription curbside recycling is offered in the City of Findlay by AE Curbside Service. The program offers collection of commingled paper, cardboard, aluminum cans, steel cans, glass, and plastic containers. AE Curbside Service offers residential curbside recycling (weekly or biweekly collection), commercial recycling collection, and residential garbage hauling. The monthly costs of some of the various services are provided below.

Weekly Curbside Recycling	\$ 11.00
Biweekly Curbside Recycling	\$ 7.00
Combined Recycling & Garbage	\$ 23.00
Weekly Commercial Recycling	\$ 20.00 and up

(Costs provided on www.aecurbside.com – June 2012)

The focus of AE Curbside is curbside recycling; garbage hauling is offered as a supplement to the curbside recycling program. All residential customers of AE Curbside are provided an 18-gallon tote bin for their commingled recyclables and refuse is accepted in garbage bags, trash cans or 96 gallon container (provided for a fee). Commercial recycling customers receive similar tote bins for use in their office or facility. The interval of collection for commercial service varies and is determined based on the company’s specific needs.

Responsible entities: This program is privately owned and operated by AE Curbside.

Service area that benefits: This program is available to all residents and commercial businesses in the City of Findlay.

Amount and type of material reduced/recycled: The materials collected by AE Curbside include plastics, glass, paper, steel cans, aluminum cans, and cardboard. All materials collected, except for ferrous and non-ferrous metals, are taken to Litter Landing for processing. Metals are typically taken to Flag City Recycling, a local recycler/broker. In 2010, AE Curbside reported collecting 41 tons of recyclables.

Strengths of the program: This program is currently the only curbside recycling program available in the City of Findlay. It provides a convenient and consistent method for subscribers to manage recyclable materials.

Weaknesses of the program: Given that the City of Findlay has over of 17,000 households (per the 2010 U.S. Census), the number of households currently subscribing to AE Curbside services (640 in 2010) is very low.

Landfill Appliance Collection

1998

Large appliances are accepted year-round at the Hancock County Sanitary Landfill and are transported to scrap metal processors. The cost for appliances at the landfill includes the regular fees plus a white goods surcharge.

Responsible entities: Collection at the landfill is overseen by staff of the Hancock County Sanitary Landfill.

Service area that benefits: This program is available to all residents of Hancock County.

Amount and type of material reduced/recycled: Major appliances are the targeted material. In 2010, 159 appliances were collected at the landfill, a total of approximately 12 tons.

Strengths of the program: This program provides a management alternative for a bulky and difficult to manage waste stream. In addition, as the collection is performed at the landfill, and the material collected is sold at market value, there are no District costs associated with the program.

Weaknesses of the program: Although the landfill accepts appliances year round for a fee, this program does not provide residents with a permanent, low cost option for managing appliances.

Public Education & Awareness

N/A

The District employs a part-time educator that is responsible for providing education and awareness to District residents. Education and awareness activities are available to all demographic groups within the District. Preschoolers are visited at daycare facilities and informed of what materials can be recycled and the importance of not littering. Third graders are visited every year and are taught about the importance of recycling and the effects recycling can have on natural resources and landfills; these visits include an in-class presentation and hands-on recycling activity. Adults are reached through such groups as rotary clubs, youth advisor trainings, and religious groups and are provided with information on a variety of recycling topics upon request. The District also has a booth available at several local annual events, including the Hancock County Fair, Leisure Living Show, Findlay Rib-Off, etc. The District also provides bottle bins at these events to provide a recycling outlet for plastic, glass and aluminum beverage containers.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation.

Service area that benefits: This program is directed to all residents of Hancock County.

Amount and type of material reduced/recycled: This program generally does not target particular materials for reduction/recycling nor are measurable quantities of material associated with the program. Recyclables collected at public events are taken to Litter Landing for processing; the quantity is included in the total amount reported for Litter Landing.

Strengths of the program: District staff reach a wide variety of audiences through their education and awareness efforts.

Weaknesses of the program: Because it is an educational program, no specific quantities of material reduced or recycled can be attributed to the program.

District Website

2006

The District's website, www.hancockenvironment.com, serves as a clearinghouse of information on District activities and programs and is a significant promotional tool for the District. Topics offered on the website include:

- A comprehensive recycling guide, including information on the permanent and mobile recycling units and details for upcoming collection events;
- Information on litter, including details on the Adopt-a-Road program, Spring Clean Up Day, and Keep America Beautiful;
- A complete guide to Litter Landing, including location, hours of operation, materials accepted and preparation guidelines, and information on community tours and volunteer opportunities;
- Information regarding the Hancock County Sanitary Landfill, including location, hours of operation, and prices;
- Links to other key recycling and solid waste organizations and websites;
- Contact information and a listing of District staff, Policy Committee, and County Commissioners.

The website is updated as needed throughout the year to provide current information on District programs and events, particularly the special collection events. The website link is provided in District literature and at special events.

Responsible entities: The District provides the funding for this activity and District staff plan, promote, and oversee its implementation.

Service area that benefits: This program is directed to all residents of Hancock County.

Amount and type of material reduced/recycled: This program does not target particular materials for reduction/recycling nor are measurable quantities of material associated with the program.

Strengths of the program: The website reaches a wide variety of audiences and provides easy access to information regarding District programs and activities.

Weaknesses of the program: The website must be frequently updated in order to provide current information to District residents. In addition, no specific quantities of material reduced or recycled can be attributed to the program.

List of Existing Recyclers/Brokers

1992

This is a directory of available outlets for household recyclables. This list is organized by type of material and provides all the outlets available in Hancock County that accept each material. This list of available recyclers and brokers is provided in a brochure format that can be obtained from the District offices and is made available to local realtors to promote and encourage recycling to new residents. The brochure is also provided at the District's booth at special events. The list is updated as needed.

Responsible entities: The District provides the funding for this activity and District staff oversees its implementation.

Service area that benefits: This program benefits all residents and businesses within Hancock County.

Amount and type of material reduced/recycled: The list of recyclers/brokers targets a wide variety of recyclable materials.

Strengths of the program: The list provides information on available outlets for a wide variety of materials.

Weaknesses of the program: No specific quantities of material reduced or recycled can be attributed to the program.

Commercial, Governmental, and Organizational Recycling

1992

Through this program, the District assists area commercial businesses, governmental offices, and other organizations with setting up in-house recycling programs and helps those entities find markets or other outlets for the recyclable materials collected. The ultimate aim of the program is to minimize final waste disposal for participating entities. To achieve this goal, the District provides technical assistance and directs participating entities to existing recycling outlets. In some cases, staff from Litter Landing will pick up recyclables and deliver them to Litter Landing. Additionally, the District conducts a survey of commercial businesses and other entities to determine the quantity of material recycled during the previous calendar year.

Responsible entities: The District provides the funding for this activity and District staff oversees its implementation and provide technical assistance as requested.

Service area that benefits: This program benefits all commercial, governmental, and organizational entities within Hancock County.

Amount and type of material reduced/recycled: Private sector recycling includes a wide variety of recyclable materials. In 2010, approximately 12,240 tons of material was reported as having been recycled by commercial generators via the solid waste survey.

Strengths of the program: Litter Landing and the recyclable pick up service are highly utilized by commercial businesses and other organizations and contribute a significant portion of the recyclables processed at Litter Landing.

Weaknesses of the program: It is very difficult to obtain quantities of materials recovered from commercial businesses and other organizations. The District believes the amount of material actually being recovered is greater than what is being reported.

2. Industrial Sector

The amount of solid waste reduced through source reduction, recycling, incineration, and composting for the industrial sector was 77,029 tons, as presented in Table IV-7. All quantities presented in Table IV-7 were derived from actual quantities as reported through industry surveys (as provided in Appendix F.1). Further, all quantities presented in Table IV-7 have been adjusted to eliminate double counting. These adjustments are presented in Appendix F.4.

It should be noted that the industrial waste reduction data has been amended since submittal of the 2010 ADR to the Ohio EPA. Upon submittal of the ADR, industrial recycling was reported to be 70,446 tons. However, at the time of the ADR submittal, the 2010 survey was not yet complete; the ADR utilized data for calendar year 2009. For the purposes of this Plan update, the District utilized the data collected from the 2010 survey, as reflected in Appendix F.

An inventory of the industrial entities that reported recycling quantities via the 2010 survey was presented in Table III-5 in Section III. The following narrative describes all of the existing activities and programs that were performed and funded by the District as a part of the District-wide industrial recycling efforts in the reference year. For planning purposes, all activities and programs implemented prior to December 31, 2010 are considered existing. Programs or activities implemented after 2010 are considered new and are discussed in Section V. A discussion regarding the assumptions associated with future projections of the quantities of material to be recovered from each program is also provided in Section V.

Existing Recycling Activities	Year of Initiation
Program of Industrial Recycling	1983

The District provides a variety of educational and technical assistance to Hancock County businesses regarding recycling and source reduction. Through the Industrial Recycling Program the District:

- Assists new industries in setting up in-house recycling programs;
- Assists in identifying outlets for recyclable materials, including wood pallets, plastics, used oil, paper, and cardboard;
- Provides technical assistance to interested industries on source reduction and waste minimization alternatives;
- Provides coordination services to industries interested in conducting internal efficiency evaluations, which are performed in partnership with the Bureau of Workers Compensation, the University of Findlay, and Toledo University.

In addition, the District regularly surveys industrial generators to determine the quantity of material that has been recycled/reused/minimized by private industrial sector recycling efforts.

Responsible entities: The District provides the funding for this activity and District staff oversees its implementation.

Service area that benefits: This program benefits all industrial businesses within Hancock County.

Amount and type of material reduced/recycled: The private industrial sector recycling includes a wide variety of recyclable materials. In 2010, approximately 77,000 tons of material was reported as having been recycled by industrial generators via the solid waste survey.

Strengths of the program: Private industrial sector recycling continues to maintain a high waste reduction rate.

Weaknesses of the program: Because the industrial sector is currently achieving such high recycling rates, a significant increase in industrial recycling is unlikely unless a new, large facility moves into the county.

F. Total Waste Generation: Historical Trends of Disposal Plus Waste Reduction

Table IV-8 presents the historical trends in waste generation, recycling, and landfill disposal in the District from 1994 through 2010. The data for this table was obtained from the District’s last solid waste management plan update (implemented 2007), annual district reports submitted to Ohio EPA, and data provided by Ohio EPA.

As presented in Table IV-8, and graphically in Figure 4-1, the amount of material recycled in the past five years in the District has remained relatively constant, with a slight increase in the reference year. This increase can likely be attributed to extra effort put forth in the 2010 survey to increase the number of respondents and follow up the paper survey with phone calls.

In the same five year time period, waste disposal has decreased. Landfill disposal decreased by 16 percent between 2006 and 2010, a trend the District expects to continue in the planning period.

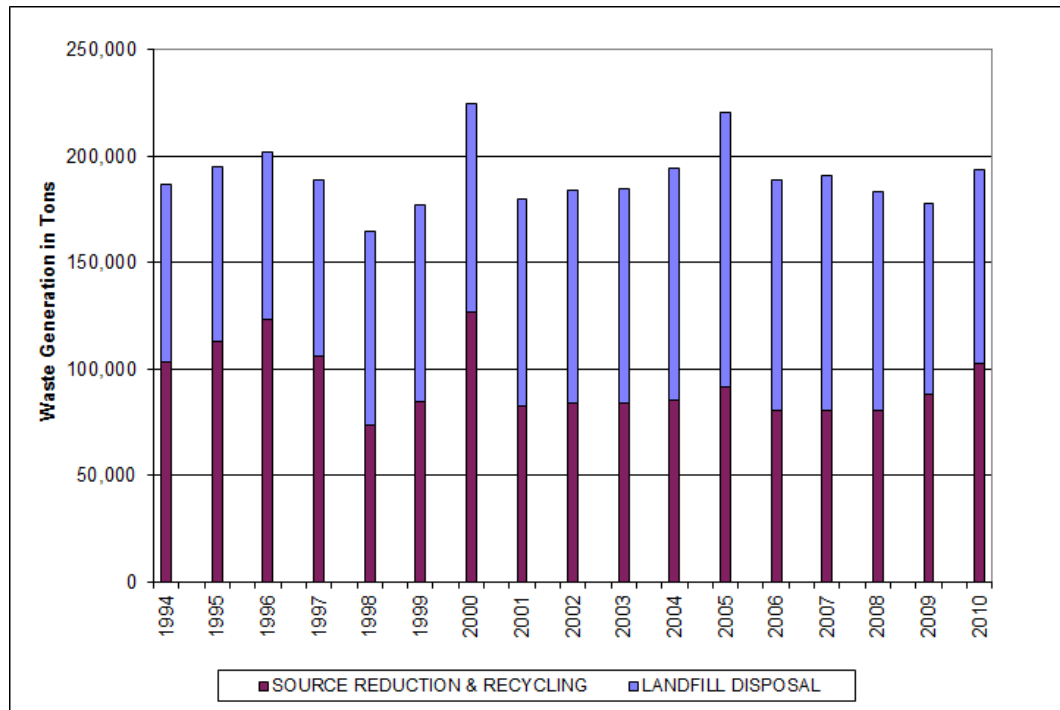


Figure 4-1. Historical landfill disposal and recycling/reduction in Hancock County SWMD.

G. Reconciliation of Waste Generation

For the purposes of this Plan update, waste generation rates that are based on actual data will be used as the basis of projections rather than waste generation rates based on national average generation rates and survey data. Thus, the total waste generation for both the residential/commercial and industrial sectors was calculated by adding together the amount of waste disposed in landfill facilities and the amount of waste reported as recycled in each sector (adjusted for double counting).

1. *Residential/Commercial Waste Generation*

Landfill Disposal: 67,743 tons
R/C Recycling: 29,367 tons
Total Waste Generation: **97,110 tons**

Using total waste generation of 97,110 tons and a population of 71,677 people, the waste generation rate for the residential/commercial sector was calculated as 7.42 pounds per person per day. As was presented earlier in this section, the national generation rate for municipal solid waste for 2010 was 4.43 pounds per person per day. For the District's 2010 population, using the national generation rate equates to a total residential/commercial generation of 57,949 tons. This quantity is less than the amount of residential/commercial waste owners and operators of landfill facilities reported having accepted from the District for disposal. This suggests that the national generation rate does not properly characterize residential/commercial waste generation for the District. Thus, the generation rate of 7.42 pounds per person per day, calculated using landfill disposal and recycling, is likely a more accurate representation of total District generation for the residential/commercial sector.

According to data from Ohio EPA, a residential/commercial generation rate of 7.42 pounds per person per day is high relative to other districts located adjacent or near to Hancock County, such as Henry County, Putnam County, and Wood County. Ohio EPA data indicates that residential/commercial waste generation in these districts is in the range of 4.2 to 5.7 pounds per person per day.

The generation rate of 7.42 pounds per person per day appears to primarily stem from the disposal component of the total residential/commercial generation calculation. This disposal data is taken directly from the annual landfill reports provided to Ohio EPA. It is possible that the apparent discrepancy in the generation rate is due to industrial waste being mischaracterized as residential/commercial waste during collection by the waste haulers or acceptance at landfill facilities. However, the District feels this is unlikely, at least for in-district waste disposal. The landfill utilizes a tracking system for all industrial generators whereby all industries are assigned an identification number which is entered when waste from that industry is received at the landfill. Given this system, it is unlikely that a load of industrial waste would be mischaracterized as residential/commercial waste.

Even if this type of mischaracterization is taking place, there is no means by which the District can verify or quantify it. The District has no alternative but to rely on the data as reported by landfills to the Ohio EPA. Therefore, as indicated in Table IV-9, this Plan update will use the generation rate of 7.42 pounds per person per day for the residential/commercial sector, as calculated based on actual reported disposal and recycling.

2. *Industrial Waste Generation*

Landfill Disposal: 11,852 tons
Industrial Recycling: 77,029 tons
Total Waste Generation: **88,881 tons**

As was discussed earlier in this section, three calculations were performed to determine industrial waste generation. As with the residential/commercial sector, this Plan update uses waste generation based on actual disposal and recycling quantities for the remainder of the Plan update. This is reflected in Table IV-9.

H. Waste Composition

1. Residential/Commercial Sector

Waste stream composition for the residential/commercial sector was estimated by using information provided in the data tables prepared for the U.S. EPA publication *Municipal Solid Waste in the United States: 2010 Facts and Figures*. These data tables provide the percentages of total waste generation attributed to different materials within the municipal solid waste stream on a national basis. The District's total residential/commercial waste generation (97,110 tons as provided in Table IV-9) was multiplied by the percentages of each component of the waste stream to yield the approximated waste stream composition. The resulting residential/commercial solid waste composition is presented in Table IV-10 and graphically in Figure 4-2, below.

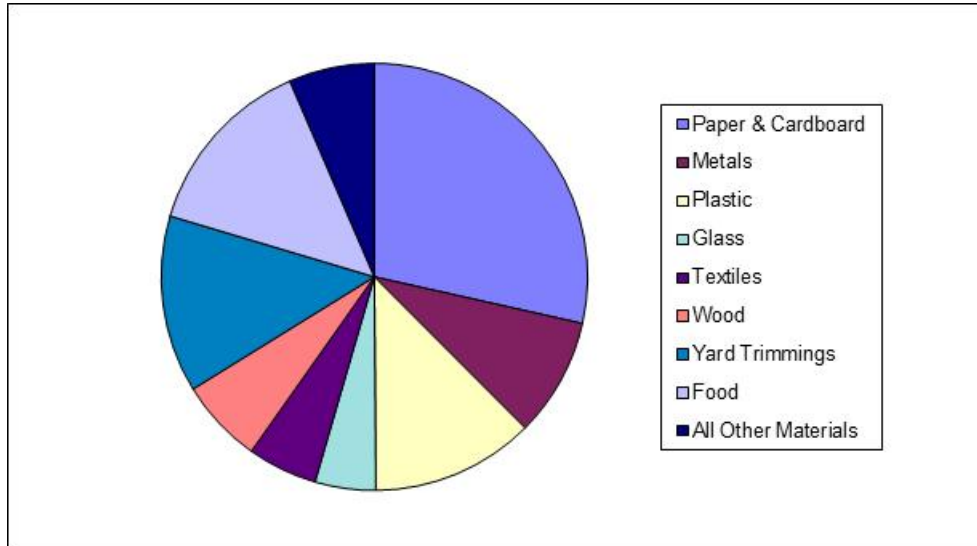


Figure 4-2. Estimated waste composition of material generated in the residential/commercial sector in 2010 in the Hancock County SWMD.

2. Industrial Sector

The solid waste composition for the industrial sector was estimated using the generation data obtained from the industrial surveys. The generation data from the surveys was compiled to provide waste generation per waste stream (industrial generation survey results are provided in Appendix F.1). However, as discussed previously in this section, the District is using reported recycling plus disposal for the total industrial waste generation, which does not match the generation provided via the surveys. Thus, the District determined the percentage of each material from the survey waste generation and applied those percentages to the recycling plus disposal waste generation (88,881 tons as provided in Table IV-9) to determine the waste stream compositions. These compositions are provided in Table IV-11 and shown graphically in Figure 4-3, below.

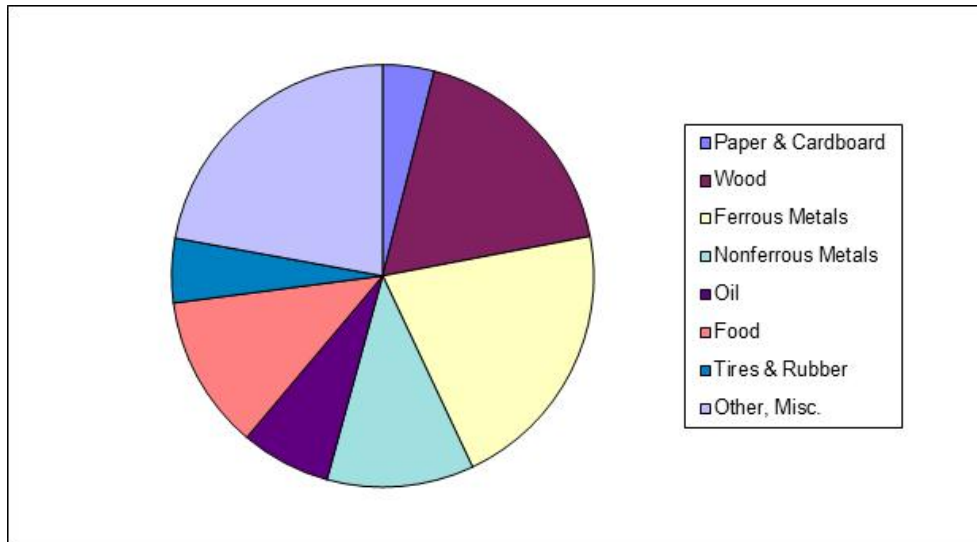


Figure 4-3. Estimated waste composition of material generated in the industrial sector in 2010 in the Hancock County SWMD.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE IV-1
REFERENCE YEAR POPULATION AND RESIDENTIAL/COMMERCIAL
GENERATION**

COUNTY NAME	POPULATION		GENERATION RATE (lbs/person/day)	TOTAL DISTRICT GENERATION (tons)
	Before Adjustment	After Adjustment		
HANCOCK	74,782	71,677	4.43	57,949

Notes:

1. Generation rate used from USEPA *Municipal Solid Waste in the United States: 2010 Facts and Figures*
2. The population of the portions of Fostoria and Bluffton located within Hancock County are estimated to be 2,932 and 173, respectively.

Sample Calculation:

$$\frac{71,677 * 4.43 \text{ lb/person/day} * 365 \text{ days}}{2000 \text{ lb/ton}} = 57,949 \text{ tons}$$

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE IV-3
INDUSTRIAL WASTE GENERATION
SURVEY RESPONDENTS vs NON-RESPONDENTS**

SIC	SURVEY RESPONDENTS				SURVEY NON-RESPONDENTS			TOTAL WASTE GENERATED TONS	PERCENT OF TOTAL
	NO. OF INDUSTRIES	NO. OF EMPLOYEES ¹	WASTE GENERATED TONS	GENERATION RATE: TONS/PERSON ²	NO. OF INDUSTRIES	NO. OF EMPLOYEES ¹	WASTE GENERATED TONS		
20	4	1,476	14,690	9.95	9	106	1,055	15,745	8.54%
22	0	0	0	0.00	0	0	0	0	0.00%
23	1	164	323	1.97	5	18	35	358	0.19%
24	1	30	18,289	609.65	5	127	77,425	95,714	51.92%
25	0	0	0	0.00	1	0	0	0	0.00%
26	1	18	1	0.00	3	40	0	1	0.00%
27	1	13	77	5.88	8	40	235	312	0.17%
28	0	0	0	0.00	1	4	0	0	0.00%
29	1	1,800	161	0.09	1	30	3	164	0.09%
30	4	1,446	6,648	4.60	13	844	3,881	10,529	5.71%
31	0	0	0	0.00	0	0	0	0	0.00%
32	1	9	10	0.00	4	46	0	10	0.01%
33	3	26	365	14.04	0	0	0	365	0.20%
34	7	848	32,211	37.98	8	300	11,395	43,606	23.65%
35	7	512	2,845	5.56	12	176	978	3,823	2.07%
36	1	2,000	2,718	1.36	0	0	0	2,718	1.47%
37	4	1,688	8,718	5.16	7	444	2,293	11,011	5.97%
38	0	0	0	0.00	1	6	0	0	0.00%
39	1	1	0	0.00	5	31	0	0	0.00%
TOTAL	37	10,031	87,056	8.68	83	2,212	97,300	184,356	100.0%

Notes:

1. Number of employees were generated from the 2010 *Harris Ohio Industrial Directory* and/or the Findlay-Hancock Chamber of Commerce, except where actual numbers were reported.
2. Generation rate determined from reported total generation. This generation rate was used to calculate generation for non-responding industries.

Sample Calculation:

SIC 20 = survey respondents:
14,690 tons / 1,476 persons = 9.95 tons/ person
survey non-respondents:
9.95 tons/person * 106 persons = 1,055 tons
Total SIC 20 waste generation = 14,690 tons + 1,055 tons = 15,745 tons

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE IV-3A
INDUSTRIAL WASTE GENERATION
SURVEY RESPONDENTS Vs NON-RESPONDENTS
CALCULATED USING TABLE JJ-2 FROM *VERSION 3.0 FORMAT***

SIC	SURVEY RESPONDENTS				SURVEY NON-RESPONDENTS			TOTAL WASTE GENERATED TONS	PERCENT OF TOTAL
	NO. OF INDUSTRIES	NO. OF EMPLOYEES ¹	WASTE GENERATED TONS	GENERATION RATE: TONS/PERSON ²	NO. OF INDUSTRIES	NO. OF EMPLOYEES ²	WASTE GENERATED TONS		
20	4	1,476	14,690	13.92	9	106	1,476	16,166	14.84%
22	0	0	0	9.99	0	0	0	0	0.00%
23	1	164	323	2.80	5	18	50	373	0.34%
24	1	30	18,289	51.62	5	127	6,556	24,845	22.80%
25	0	0	0	1.79	1	0	0	0	0.00%
26	1	18	1	17.50	3	40	700	701	0.64%
27	1	13	77	6.70	8	40	268	345	0.32%
28	0	0	0	12.43	1	4	50	50	0.05%
29	1	1,800	161	7.33	1	30	220	381	0.35%
30	4	1,446	6,648	7.29	13	844	6,153	12,801	11.75%
31	0	0	0	3.41	0	0	0	0	0.00%
32	1	9	10	10.55	4	46	485	495	0.45%
33	3	26	365	36.93	0	0	0	365	0.34%
34	7	848	32,211	11.16	8	300	3,348	35,559	32.64%
35	7	512	2,845	5.72	12	176	1,007	3,852	3.54%
36	1	2,000	2,718	2.98	0	0	0	2,718	2.49%
37	4	1,688	8,718	3.21	7	444	1,425	10,143	9.31%
38	0	0	0	1.74	1	6	10	10	0.01%
39	1	1	0	4.62	5	31	143	143	0.13%
TOTAL	37	10,031	87,056		83	2,212	21,891	108,947	100.0%

Notes:

1. Number of employees were generated from the 2010 *Harris Ohio Industrial Directory* and/or the Findlay-Hancock Chamber of Commerce, except where actual numbers were reported.
2. Generation rates were taken from Table JJ-2 of Ohio EPA's *District Solid Waste Management Plan Format (version 3.0)*.

Sample Calculation:

SIC 20 = Appendix JJ
 13.92 tons/person
Survey non-respondents:
 13.92 tons/person * 106 person = 1,476 tons
 Total SIC 20 waste generation = 14,690 tons + 1,476 tons = 16,166 tons

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE IV-4
EXEMPT WASTE GENERATED IN THE DISTRICT AND DISPOSED
IN LANDFILLS**

TONS OF EACH WASTE STREAM	GENERATION RATE (lbs/person/day)	TOTAL EXEMPT WASTE GENERATION (TPY)
Construction & Demolition Debris	0.85	11,054
Unknown Exempt	0.01	159
TOTAL	0.86	11,212

Sample Calculation:

$$\frac{11,212 \text{ tons} * 2000 \text{ lb/ton}}{365 \text{ days} * 71,677 \text{ persons}} = 0.86 \text{ lbs/person/day}$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE IV-5
REFERENCE YEAR TOTAL WASTE GENERATION
FOR THE DISTRICT**

TYPE OF WASTE	GENERATION RATE (lbs/person/day)	TONS/YEAR
Residential/Commercial	4.43	57,949
Industrial	48.76	108,947
Exempt	0.86	11,212
Total Waste Generation	13.62	178,108

Notes:

1. Res/com generation based on 2010 rate provided in USEPA's *Municipal Solid Waste in the United States: 2010 Facts and Figures*.
2. 2010 adjusted District population is 71,677 (Table IV-1)
3. Industrial generation based on estimated generation from Table IV-3A.
4. Total number of industrial employees is 12,243.

Sample Calculation:

$$\text{Res/com generation rate} = \frac{57,949 * 2,000}{71,677 * 365} = 4.43 \text{ lbs/person/day}$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE IV-6
REFERENCE YEAR RESIDENTIAL/COMMERCIAL WASTE REDUCTION IN THE DISTRICT**

TYPE OF WASTE SOURCE REDUCED	TPY	TYPE OF WASTE RECYCLED	TPY	INCINERATION, COMPOSTING, RESOURCE RECOVERY		
				TOTAL WASTE RECEIVED	RESIDUAL LANDFILLED	NEW WASTE PROCESSED
Source Reduction	0	paper	2,073.4	Incineration	0	0
		cardboard	5,575.1			
		wood	8,374.1			
		ferrous	6,593.0	Composting	0	3,752
		nonferrous	385.1			
		plastic	1,321.6			
		glass	462.8			
		oil	0.0			
		food	0.0			
		batteries	22.9	Resource Recovery	0	0
		appliances	536.8			
		tires	195.4			
textiles	0.0					
HHW	44.9					
electronics	29.7					
SUBTOTAL	0		25,615			3,752
GRAND TOTAL						29,367

Notes:

1. Nonferrous includes aluminum cans.
2. Ferrous includes steel cans and scrap steel from white goods.
3. All double counting has been removed.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE IV-7
REFERENCE YEAR INDUSTRIAL WASTE REDUCTION IN THE DISTRICT**

TYPE OF WASTE SOURCE REDUCED	TPY	TYPE OF WASTE RECYCLED	TPY	INCINERATION, COMPOSTING, RESOURCE RECOVERY					
				TOTAL WASTE RECEIVED	RESIDUAL LANDFILLED	NEW WASTE PROCESSED			
Industrial Source Reduction	0	paper	994	Incineration					
		cardboard	3,013						
		wood	19,088				0	0	0
		ferrous	22,981	Composting					
		nonferrous	11,492						
		plastic	1,616				0	0	0
		glass	0						
		ash	0	Resource Recovery					
		non haz chem	0						
		batteries	6				0	0	0
tires	3,826								
rubber	1,414								
food	12,584								
polyurethane foam	15								
SUBTOTAL	0		77,029			0			
GRAND TOTAL						77,029			

Notes:

1. All double counting has been removed.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE IV-8
TOTAL WASTE GENERATION BASED UPON DISPOSAL PLUS WASTE REDUCTION**

YEAR	MANAGEMENT METHOD USED IN TPY							TOTAL WASTE GENERATED
	SOURCE REDUCTION & RECYCLING	YARD WASTE COMPOSTING	YARD WASTE LAND APPLICATION	INCINERATION	MSW COMPOSTING	LANDFILL DISPOSAL	DATA SOURCE	
1994	103,664	2,550	0	31	0	82,984	1	189,229
1995	112,752	0	0	0	0	82,534	1	195,286
1996	123,700	0	0	0	0	78,153	1	201,853
1997	106,236	0	0	0	0	82,343	1	188,579
1998	73,500	2,503	0	0	0	91,383	1	167,386
1999	84,716	0	0	0	0	92,656	1	177,372
2000	126,815	0	0	0	0	97,575	1	224,390
2001	82,441	0	0	0	0	97,275	1	179,716
2002	84,371	0	0	0	0	99,975	1	184,346
2003	84,262	0	0	0	0	100,574	1	184,836
2004	85,623	15	0	0	0	108,563	1	194,201
2005	91,606	463	0	0	0	129,318	2	221,387
2006	80,822	1,125	0	0	0	108,391	2	190,338
2007	80,882	531	0	0	0	109,786	2	191,199
2008	80,732	309	0	0	0	102,355	2	183,396
2009	88,072	5,884	0	0	0	89,958	2	183,914
2010	102,643	3,752	0	0	0	90,816	3	197,212

Notes:

1. From Hancock County Solid Waste Management Plan, 2007
2. From Ohio EPA Annual District Report Review Forms for Hancock County (2005, 2006, 2007, 2008, and 2009)
3. From Chapters III and IV (Tables III-1, III-3, IV-6 and IV-7)

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE IV-9
ADJUSTED REFERENCE YEAR TOTAL WASTE GENERATION
FOR THE DISTRICT**

TYPE OF WASTE	GENERATION RATE (lbs/person/day)	TONS/YEAR
Residential/Commercial	7.42	97,110
Industrial	6.79	88,881
Exempt	0.86	11,212
Total Waste Generation	15.08	197,203

Notes:

1. Generation totals based on recycling plus waste disposal.

Sample Calculations:

$$\text{Generation Rate} = \frac{84,909 * 2,000}{71,677 * 365} = 6.49 \text{ lbs/person/day}$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE IV-10
ESTIMATED RESIDENTIAL/COMMERCIAL WASTE STREAM
COMPOSITION FOR THE REFERENCE YEAR**

Waste Stream Type	Percentage of Material	Estimated Waste Composition
Paper	16.9%	16,412
Cardboard	11.6%	11,265
Wood	6.4%	6,215
Ferrous	6.8%	6,603
Non-Ferrous	2.2%	2,136
Plastic	12.4%	12,042
Glass	4.6%	4,467
Food	13.9%	13,498
Lead Acid Batteries	1.3%	1,262
White Goods	1.6%	1,554
Tires	2.1%	2,039
Textiles	5.3%	5,147
Yard Trimmings	13.4%	13,013
All Other Materials	1.5%	1,457
Total	100.0%	97,110

Notes:

1. The values entered in the "Percentage of Material" column were taken from data tables prepared for the U.S. EPA document *Municipal Solid Waste in the United States: 2010 Facts and Figures* .

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SOLID WASTE MANAGEMENT PLAN**

**TABLE IV-11
ESTIMATED INDUSTRIAL WASTE COMPOSITION
FOR THE REFERENCE YEAR**

WASTE STREAM TYPE	Calculated	
	%	Tons
Paper	1.32%	1,174
Cardboard	3.49%	3,101
Wood	22.17%	19,705
Metals, ferrous	25.76%	22,896
Metals, nonferrous	13.80%	12,267
Plastics	1.93%	1,712
Glass	0.00%	2
Oil	8.45%	7,511
Stone/clay/sand	0.03%	26
Concrete	0.07%	59
Foundry sand	0.00%	-
Sludge	1.98%	1,761
Food	14.47%	12,865
Non-hazardous chemicals	0.27%	242
Composites	0.00%	-
Batteries	0.01%	6
Tires	4.40%	3,907
Textiles	0.07%	59
Rubber	1.64%	1,455
Other	0.15%	135
GRAND TOTALS	100.00%	88,881

V. PLANNING PERIOD PROJECTIONS AND STRATEGIES

A. Planning Period

As specified in the Ohio EPA document *District Solid Waste Management Plan Format, version 3.0* (Format), the planning period for this Plan update shall begin January 1, 2013, the calendar year after the amended draft plan due date (October 9, 2012). The planning period extends for 15 years, thus ending December 31, 2027. However, projections in the plan were extended for two years beyond the planning period (2029) as a precautionary step in case of unforeseen obstacles in the ratification process. It is the District's intention to prepare a 15-year plan with five-year updates.

B. Population Projections

As was presented in Table IV-1, the adjusted population of the District in the reference year was 71,677 people. The Ohio Department of Development, Office of Strategic Research (OSR) projects that this population will increase over the planning period. Population projections made by OSR for 2015, 2020, 2025 and 2030 were 75,740, 76,910, 78,250 and 79,040, respectively. These population estimates are for the entire population of Hancock County.

As described in Section IV, adjustments must be made to the total county population in order to calculate the District population. Specifically, the population of the City of Fostoria and the Village of Bluffton that reside within Hancock County must be excluded from the District population. Comparing data from the 2000 Census to the 2010 Census, the population of the City of Fostoria that resides in Hancock County declined at a rate of 0.40 percent annually between 2000 and 2010. This same comparison reveals that the population of the Village of Bluffton that resides in Hancock County decreased at approximately 0.23 percent per year. To calculate the adjusted population of the District, it was assumed that these populations will continue to change at the same rates throughout the planning period. The adjusted population projections for the District are shown below.

Table V.A. Adjusted Population Projections for Hancock County SWMD

	2010*	2015	2020	2025	2030
County Population	74,782	75,740	76,910	78,250	79,040
City of Fostoria	2,932	2,874	2,817	2,761	2,706
Village of Bluffton	173	171	169	167	165
Adjusted District Population	71,677	72,695	73,924	75,322	76,168

* From Table IV-1.

Using the five-year interval population projections shown above, the District calculated every year of the planning period using straight-line interpolation, as presented in Table V-1. Over the 15-year planning period, the District's population is expected to increase from 72,288 people in 2013 to 75,660 people in 2027, a total increase of 4.7 percent.

C. Waste Generation Projections

1. Residential/Commercial Waste Generation

District population and waste generation rates based on actual disposal and recycling data are generally considered to be good parameters when determining and projecting the residential/commercial waste generation. The District's total residential and commercial solid waste generation over the 15-year planning period is expected to increase as a result of the increases projected in the District's population.

As is presented in Table V-2, solid waste generation for the District's residential/commercial sector is projected to increase from 97,938 tons in 2013 to 102,507 tons in 2027, or approximately 4.7 percent. The per capita waste generation rate for the residential/commercial sector is projected to remain constant at 7.42 pounds per person per day throughout the planning period.

2. *Industrial Sector*

As explained in Section IV, industrial waste generation for the reference year was determined by adding together the quantities of industrial waste disposed in landfill facilities and the quantities recycled. In order to provide an estimate of industrial generation per Standard Industrial Classification (SIC) category, as shown in Table V-3, the District used the percent of total generation SIC category calculated in Table IV-3A. These percentages were multiplied by the total industrial generation (recycling plus disposal) to determine the generation for each SIC category.

With the breakdown for each SIC category established, the generation was then projected to decrease annually over the 15-year planning period. This assumed decrease in generation was based upon data and estimates provided by the Ohio Department of Job and Family Services' *2010 Economic Analysis*. Industry employment projections provided by ODJFS indicate that while employment for industries overall is expected to grow by 5 percent between 2006 and 2016, manufacturing is expected to decline by 17.7 percent during that period.

The majority of the SIC categories used in this Plan update are concentrated on manufacturing. Thus, based on the data provided by ODJFS, the District predicts an annual decrease in industrial generation of 1.77% through 2016. As data is not available beyond 2016, the District has chosen to maintain this same rate of decline through the remainder of the planning period. This decrease was applied equally to manufacturing across all SIC categories. The projections based on this methodology, provided in Table V-3, result in a decrease in industrial generation of 22.1 percent over the planning period, from 84,244 tons in 2013 to 65,608 tons in 2027.

3. *Exempt Waste Generation*

As was presented in Section IV, exempt waste generation was estimated at 11,212 tons for 2010 and was based on the amount of exempt waste reported as having been disposed in landfill facilities. This amount is in line with the average amount of exempt waste that has been reported as disposed in landfill facilities over the past five years, as presented below:

2006 – 15,211 tons
2007 – 5,064 tons
2008 – 13,628 tons
2009 – 10,973 tons
<u>2010 – 11,212 tons</u>
Avg – 11,218 tons

In the absence of a reliable indicator to predict how exempt waste generation may vary in the District in the future, the District has used the five year historical average of of exempt waste disposed in landfill facilities annually. Thus, for the purposes of this Plan update, it was assumed that 11,218 tons will be generated in the District in each year of the planning period.

4. *Total Waste Generation*

Using the information outlined in the previous sections, Table V-4 was developed to present the projections for the total amounts of waste that will be generated within the District during the planning period. Total waste generation is expected to decrease from 193,400 tons in 2013 to 179,333 tons in 2027, an approximate decrease of 7.3 percent.

D. Projections for Waste Stream Composition

No specific trends have been identified that would result in a substantial shift in the composition of the waste streams for either the residential/commercial or industrial sectors.

E. Waste Reduction Strategies through the Planning Period

The 2001 *State Solid Waste Management Plan* established eight goals to promote waste reduction and recycling around the State of Ohio. These eight goals are as follows:

- Goal #1: Ensure the availability of waste reduction, recycling, and minimization alternatives for municipal solid waste.
- Goal #2: Reduce, reuse, recycle, or minimize at least 25 percent of the municipal solid waste generated and at least 66 percent of the industrial solid waste generated.
- Goal #3: Provide informational and technical assistance on source reduction.
- Goal #4: Provide informational and technical assistance on recycling, reuse, and composting opportunities.
- Goal #5: Strategies for scrap tires, yard waste, lead-acid batteries and household hazardous waste.
- Goal #6: Economic incentive analysis.
- Goal #7: Market development strategy (optional).
- Goal #8: Annual reporting of plan implementation.

While the State Plan encourages solid waste management districts to attempt to achieve both Goal #1 and Goal #2, solid waste management district are only required to demonstrate compliance with one of these goals. For purposes of this Plan update, the District will demonstrate compliance with Goal #1, also known as the “Access Goal.” While the District is not attempting to demonstrate compliance with Goal #2, the District does provide programs and activities that will result in quantities of material being recovered that can be credited toward the District’s waste reduction and recycling rates. The Plan does not provide for programs to achieve Goal #7. Thus, this Plan update addresses six of the seven goals of the State Plan.

Program Analysis

To help identify the strengths and weaknesses of existing programs and determine where new programs may be needed, the District completed a program analysis. The completed analysis is provided in Appendix H. To perform the analysis, each program implemented by the District was evaluated on the basis of three different criteria. These criteria were the Ohio EPA State Plan goals (listed above), participation, and costs. There are three rankings for each criterion, as provided below:

<u>State Plan Goals</u>	<u>Participation</u>	<u>Costs</u>
1 = doesn’t meet	1 = low	1 = high
2 = somewhat meets	2 = good	2 = medium
3 = meets	3 = excellent	3 = low

Each program was given one of the above rankings for each of the three criteria. For instance, if a program meets one or more of the State Plan goals, a ranking score of 3 was given. The highest score that any program can achieve is a 9. If a program scores a 9, the program is providing the District with demonstration of State Plan goals, excellent participation from the residents and low cost to the District. After performing this analysis, the District has decided to maintain all existing strategies and programs throughout the planning period. These strategies and programs, as well as any planned changes, are discussed below and are categorized by the State Plan goals addressed by this Plan update.

Additionally, the residential/commercial and industrial waste reduction strategies to be implemented by the District during the planning period and the projected amount of waste to be reduced by each strategy are listed in Tables V-5 and V-6, respectively. Some strategies do not have estimated amounts because of the difficulty of directly measuring the effect of the strategy on actual recycling amounts. In all cases, the projections are based on the assumption that recycling

volumes are a function of the calculated generation. That is, as generation increases or decreases, due to projected changes in population or per capita generation, it is assumed that recycling will do the same.

Although specific changes are planned for some programs during the planning period, the District is uncertain as to the amount of material that may be received for recycling as a result of these changes. Thus, the District has not projected any specific increases to in recycling quantities for existing programs beyond the increase projected as a function of calculated generation.

1. Residential/Commercial Waste Reduction Strategies

Goal #1: Ensure the availability of waste reduction, recycling, and minimization alternatives for municipal solid waste

Permanent Drop-Off Recycling Units

The District will continue to operate the permanent drop-off recycling units throughout the planning period. Details of this program were described in Section IV. The District anticipates significantly expanding this program during the planning period; six new recycling roll offs will be purchased in 2012 and nine more will be purchased in 2013-2016. The new trailers will be used to replace existing units, as well as significantly expand the permanent drop-off network. Based on current planning, by 2013 a total of 10 new sites will be added, including two additional sites in Findlay, and one each in Allen Township, Cass Township, Delaware Township, Portage Township, Village of Arcadia, Village of Jenera, Village of McComb, Village of Mt. Cory, and Village of Van Buren. Beyond 2013, the District plans to locate several drop offs at the Hancock County Landfill, which will serve as a satellite donation center for Litter Landing. Other sites will be considered based on demand and availability. If and when additional drop-off locations are sited, the District will include them in the appropriate annual district report.

Mobile Drop-Off Recycling Units

The District will continue to operate the mobile drop-off recycling units throughout the planning period. Details of this program were described in Section IV. Where possible, the District intends to move away from the part-time units and convert part-time locations to permanent locations. By 2013, a total of four part-time locations will be converted to full-time permanent units. Only one part-time location is planned to be added by 2013, in Portage Township. As described above, the District anticipates purchasing several new recycling roll offs through the planning period; the District will use these new trailers to replace existing mobile units and/or expand the permanent and mobile recycling drop-off programs needed.

Litter Landing

The District will continue to offer the donation drop-off that is located at Litter Landing for the duration of the planning period. The District will continue to evaluate the layout of the donation process at Litter Landing through the planning period. Litter Landing is further discussed below.

Curbside Recycling Program

As described in Section IV, subscription curbside recycling is offered in the City of Findlay by AE Curbside Service. The program is available to all households in the City of Findlay. This program is privately owned and operated, thus the District has no control over its operations, capacity, or future efforts. The District has provided information regarding the curbside service on its website and will evaluate the feasibility of further promotion of the program in an attempt to increase participation. However, participation in the program is constrained by the current capacity of AE Curbside (number of trucks, employees, etc.). The District will continue to work with the City of Findlay in the planning period as possible to promote AE Curbside and any other available curbside recycling services.

Goal #2: Reduce and/or recycle at least 25 percent of the residential/commercial and 66 percent of the industrial waste generated

In addition to recycling performed by commercial businesses, the District offers many programs and activities that help to increase the amount of material that is creditable to the waste reduction and recycling rates, including:

- Litter Landing
- Permanent and Mobile Recycling Drop-Off Recycling Units
- HHW Collection Day and Litter Landing HHW Collection
- Electronics Collection Day and Litter Landing E-Collection
- Landfill Appliance Collection
- Tire Collection Day and Landfill Tire Collection
- Paper Shredding Day
- Christmas Tree Recycling

These programs and activities, however, are not discussed extensively under this heading because they are discussed elsewhere in this section as they relate to other State Plan Goals.

Goal #3: Provide informational and technical assistance on source reduction

Public Education & Awareness

This program will continue unchanged throughout the planning period, as described in Section IV.

District Website

The District will continue to update and maintain its website, www.hancockenvironment.com, throughout the planning period, as described in Section IV.

Commercial, Governmental, and Organization Recycling

This program will continue unchanged throughout the planning period, as described in Section IV.

Goal #4: Provide informational and technical assistance on recycling, reuse and composting opportunities

Don't Bag It / Backyard Composting Program

This program will continue unchanged throughout the planning period, as described in Section IV.

Public Education & Awareness

This program will continue throughout the planning period as described in Section IV and under Goal #3, above.

List of Existing Recyclers/Brokers

This program will continue unchanged throughout the planning period, as described in Section IV.

Commercial, Governmental, and Organization Recycling

This program will continue unchanged throughout the planning period, as described in Section IV.

Goal #5: Develop strategies for managing scrap tires and household hazardous waste

Tire Collection Days & Landfill Collection

This program will continue throughout the planning period as described in Section IV. The District will continue to offer the collection event once a year in each year of the planning period. Additionally, the landfill will continue to collect tires from all District residents for a fee. As mentioned in Section IV, the lack of low-cost outlets for truck and tractor tires continues to be a major weakness of this program given that Hancock County is a predominantly rural county. Thus, the District is tentatively considering accepting these large tires at the annual collection event, or as a separate "Agricultural Tire" event, beginning as early as 2013. However, expanding the program to include the larger tires would require coordination of considerable resources

beyond the current assistance provided by Cooper Tire & Rubber. If and when this program change occurs, the District will note it in the appropriate annual district report.

Household Hazardous Waste Collection Day

This program will continue throughout the planning period as described in Section IV.

Litter Landing HHW & Paint Collection

This program will continue to be offered annually throughout the planning period as described in Section IV. However, beginning in 2012, the types of materials accepted were expanded to include most common household hazardous wastes, including latex paint, oil based paint, aluminum paint, varnishes and stains, paint thinners, aerosols, cleaners, pesticides, flammable solids, acids and bases, oxidizers, mercury, household batteries, lead acid batteries, propane cylinders, fluorescent bulbs, antifreeze and motor oil.

Electronics Collection Day

This program will continue throughout the planning period as described in Section IV.

Litter Landing E-Collection

This is a new program, which was offered for the first time in 2011. Through this program, electronics are accepted at the Litter Landing donation center during normal hours of operation (Monday – Saturday, 8:00AM-3:00PM). Accepted materials include CPUs, monitors, keyboards,, televisions, phones, printers, fax machines, scanners, hard drives, laptops, speakers, cables, VCRs, Items are collected free of charge to Hancock County residents and the program is cosponsored by Rader Environmental Services. This program will continue to be offered annually throughout the planning period.

Other Strategies

Spring Clean Up Day

This program will continue unchanged throughout the planning period, as described in Section IV.

Christmas Tree Recycling

This program will continue throughout the planning period as described in Section IV.

Adopt-a-Road

This program will continue unchanged throughout the planning period, as described in Section IV.

Litter Crew

This program will continue unchanged throughout the planning period, as described in Section IV.

Litter Landing

This program will continue throughout the planning period as described in Section IV. However, the District additionally plans to make significant renovations to Litter Landing in 2014. These renovations will include improvements to the horizontal bailer, in order to improve processing capacity, as well as tearing down two older wooden buildings and replacing them with more modern structures. The District hopes that these improvements will allow the District to handle more recyclables via the expanded Drop-Off Recycling Program, make the facility more profitable and improve its overall appearance and functionality.

In the District’s previous Plan update, construction of a new recycling facility was discussed; this second facility is no longer anticipated to be needed in the current planning period. With the planned improvements at Litter Landing in 2014, the District anticipates that the current facility will have sufficient processing capacity for the District’s recycling needs. The District does, however, anticipate establishing a “satellite” donation center at the Hancock County Landfill in order to address the space limitations of the Litter Landing donation center. This donation center is part of the planned expansion to the Permanent Drop-Off Recycling Program. The landfill

donation center will basically serve as a very large drop-off, with 5-6 roll offs available for recycling materials. The District will provide updates and additional details on these changes as needed in the appropriate annual district report.

Landfill Appliance Collection

This program will continue unchanged throughout the planning period, as described in Section IV.

Paper Shredding Day

Paper Shredding Day is a one-day collection event that will be offered to District residents beginning in 2012. The event will be held at the Hancock County Agricultural Service Center in Findlay and provides a venue for proper, secure and confidential destruction and disposal of paper documents. Any clean, unbound paper documents will be accepted, limited to four boxes per vehicle. The event will be offered free of charge to all Hancock County residents and small businesses. The event is held in cooperation with the Shredding Network. The District intends to offer it annually throughout the planning period.

2. Industrial Waste Reduction Strategies

Goal #2: Reduce and/or recycle at least 25 percent of the residential/commercial and 66 percent of the industrial waste generated

The District anticipates that in-house waste reduction and recycling programs and activities in the industrial sector will continue to be implemented throughout the planning period.

Goal #3: Provide informational and technical assistance on source reduction

Program of Industrial Recycling

This program will continue throughout the planning period as described in Section IV.

Goal #4: Provide informational and technical assistance on recycling, reuse and composting opportunities

Program of Industrial Recycling

This program will continue throughout the planning period, as described in Section IV.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE V-1
DISTRICT POPULATION PROJECTIONS**

YEAR	TOTAL DISTRICT POPULATION
2010	71,677
2011	71,881
2012	72,084
2013	72,288
2014	72,491
2015	72,695
2016	72,941
2017	73,187
2018	73,432
2019	73,678
2020	73,924
2021	74,203
2022	74,483
2023	74,763
2024	75,042
2025	75,322
2026	75,491
2027	75,660
2028	75,830
2029	75,999
2030	76,168

Source of information: Based on the projected population data for years 2015, 2020, 2025 and 2030 from the the Ohio Department of Development, Office of Strategic Research

Sample Calculation for 2011 population:

$$72,695 - 71,677 = 1,018$$

$$1,018/5 = 203.6$$

$$2011 \text{ Population} = 71,677 + 203.6 = 71,881$$

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE V-2
DISTRICT RESIDENTIAL/COMMERCIAL WASTE GENERATION**

YEAR	TOTAL DISTRICT POPULATION	PER CAPITA GENERATION RATE (lbs/person/day)	TOTAL RESIDENTIAL/COMMERCIAL GENERATION (TPY)
2010	71,677	7.42	97,110
2011	71,881	7.42	97,386
2012	72,084	7.42	97,662
2013	72,288	7.42	97,938
2014	72,491	7.42	98,214
2015	72,695	7.42	98,489
2016	72,941	7.42	98,822
2017	73,187	7.42	99,155
2018	73,432	7.42	99,488
2019	73,678	7.42	99,821
2020	73,924	7.42	100,154
2021	74,203	7.42	100,533
2022	74,483	7.42	100,912
2023	74,763	7.42	101,290
2024	75,042	7.42	101,669
2025	75,322	7.42	102,048
2026	75,491	7.42	102,277
2027	75,660	7.42	102,507
2028	75,830	7.42	102,736
2029	75,999	7.42	102,966

Notes:

1. Generation based on recycling plus disposal.
2. The annual per capita generation rate was held constant for the planning period. Per USEPA's *Municipal Solid Waste in the United States*, the national per capita generation rate slightly decreased from 4.5 pounds per person per day (pppd) in 2000 to 4.43 pppd in 2010. In the District, the per capita generation rate has varied from 6.62 pppd to 7.55 pppd over the previous five years (2005-2009), averaging 7.11 pppd. Given this variability, it was decided to hold the 2010 baseline per capita generation rate constant throughout the planning period.

Sample Calculations:

2010 Generation = 71,677 * 6.491 * 365 / 2,000 = 84,909 tons of residential/commercial waste generation

71,677 = District population in 2010

6.49 = lb/person/day projection based on disposal plus recycling

365 = number of days per year

2,000 = conversion from pounds to tons

2011 Per Capita Generation Rate = 6.49 lb/person/day * 1.00 = 6.49

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE**

**TABLE V-3
PROJECTED INDUSTRIAL WASTE GENERATION**

SIC																				
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
20	13,188	12,955	12,725	12,500	12,279	12,062	11,848	11,638	11,432	11,230	11,031	10,836	10,644	10,456	10,271	10,089	9,910	9,735	9,563	9,393
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	304	299	294	289	284	278	274	269	264	259	255	250	246	241	237	233	229	225	221	217
24	20,269	19,910	19,558	19,212	18,872	18,538	18,210	17,887	17,571	17,260	16,954	16,654	16,359	16,070	15,785	15,506	15,231	14,962	14,697	14,437
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	572	562	552	542	532	523	514	505	496	487	478	470	462	453	445	437	430	422	415	407
27	281	276	271	266	262	257	252	248	244	239	235	231	227	223	219	215	211	207	204	200
28	41	40	39	38	38	37	36	36	35	35	34	33	33	32	32	31	30	30	29	29
29	311	305	300	295	290	284	279	274	270	265	260	256	251	247	242	238	234	230	225	221
30	10,443	10,259	10,077	9,899	9,723	9,551	9,382	9,216	9,053	8,893	8,735	8,581	8,429	8,280	8,133	7,989	7,848	7,709	7,572	7,438
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	404	397	390	383	376	370	363	357	350	344	338	332	326	320	315	309	304	298	293	288
33	298	292	287	282	277	272	268	263	258	254	249	245	240	236	232	228	224	220	216	212
34	29,009	28,496	27,992	27,496	27,009	26,531	26,062	25,600	25,147	24,702	24,265	23,836	23,414	22,999	22,592	22,192	21,799	21,414	21,035	20,662
35	3,142	3,087	3,032	2,978	2,926	2,874	2,823	2,773	2,724	2,676	2,628	2,582	2,536	2,491	2,447	2,404	2,361	2,319	2,278	2,238
36	2,217	2,178	2,139	2,101	2,064	2,028	1,992	1,957	1,922	1,888	1,854	1,822	1,789	1,758	1,727	1,696	1,666	1,637	1,608	1,579
37	8,275	8,129	7,985	7,844	7,705	7,568	7,434	7,303	7,174	7,047	6,922	6,799	6,679	6,561	6,445	6,331	6,219	6,108	6,000	5,894
38	9	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	6	6	6	6
39	117	115	113	111	109	107	105	103	101	100	98	96	94	93	91	89	88	86	85	83
TOTAL TPY	88,881	87,308	85,762	84,244	82,753	81,288	79,850	78,436	77,048	75,684	74,345	73,029	71,736	70,466	69,219	67,994	66,790	65,608	64,447	63,306

Notes:

1. Waste generation projected to decrease annually by 1.77%

Sample Calculation:

2011 Waste Generation = 88,881 * -0.0177 = -1,573

88,881 - 1,573 = 87,308 tons

SIC Code 20 Waste Generation = 87,308 * 14.84% = 12,955 tons

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE**

**TABLE V-4
TOTAL WASTE GENERATION FOR THE DISTRICT
DURING THE PLANNING PERIOD**

YEAR	RES/COM (tons)	INDUSTRIAL (tons)	EXEMPT (tons)	TOTAL (tons)	POPULATION	GENERATION RATE (lbs/pers/day)
2010	97,110	88,881	11,218	197,209	71,677	15.08
2011	97,386	87,308	11,218	195,911	71,881	14.93
2012	97,662	85,762	11,218	194,642	72,084	14.80
2013	97,938	84,244	11,218	193,400	72,288	14.66
2014	98,214	82,753	11,218	192,184	72,491	14.53
2015	98,489	81,288	11,218	190,995	72,695	14.40
2016	98,822	79,850	11,218	189,890	72,941	14.26
2017	99,155	78,436	11,218	188,809	73,187	14.14
2018	99,488	77,048	11,218	187,754	73,432	14.01
2019	99,821	75,684	11,218	186,723	73,678	13.89
2020	100,154	74,345	11,218	185,717	73,924	13.77
2021	100,533	73,029	11,218	184,779	74,203	13.64
2022	100,912	71,736	11,218	183,865	74,483	13.53
2023	101,290	70,466	11,218	182,975	74,763	13.41
2024	101,669	69,219	11,218	182,106	75,042	13.30
2025	102,048	67,994	11,218	181,260	75,322	13.19
2026	102,277	66,790	11,218	180,285	75,491	13.09
2027	102,507	65,608	11,218	179,333	75,660	12.99
2028	102,736	64,447	11,218	178,401	75,830	12.89
2029	102,966	63,306	11,218	177,489	75,999	12.80

Notes:

1. Res/Com column from Table V-2
2. Industrial column from Table V-3
3. Population column from Table V-1

Sample Calculation:

2010 Generation Rate = $(185,002 * 2,000) / (365 * 71,677)$

2010 Generation Rate = 14.14 lbs/person/day

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE**

**TABLE V-5
RESIDENTIAL/COMMERCIAL WASTE REDUCTION STRATEGIES**

STRATEGY	MATERIAL																				
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
<i>SOURCE REDUCTION STRATEGIES</i>																					
None																					
SUBTOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>RECYCLING STRATEGIES</i>																					
Spring Clean-Up Day	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tire Collection Days & Landfill Collection	Scrap Tires	43	46	45	45	45	45	46	46	46	46	46	46	46	47	47	47	47	47	47	47
Don't Bag It/Backyard Composting Program ¹	Yard Waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Christmas Tree Recycling	Christmas Trees	3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
HHW Collection Day	HHW/Paint	18	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11
Litter Landing HHW & Paint Collection	HHW/Paint	27	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Electronics Collection Day	Electronics	30	73	50	50	50	50	51	51	51	51	51	51	52	52	52	52	52	52	53	53
Litter Landing E-Collection ²	Electronics	-	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14	14	14	14	14
Adopt-a-Road	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter Crew	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Litter Landing	See Table III-5	4,968	2,584	3,700	3,710	3,721	3,731	3,744	3,757	3,769	3,782	3,794	3,809	3,823	3,837	3,852	3,866	3,875	3,884	3,892	3,901
Permanent Drop-off Recycling Units ³	See Table III-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mobile Drop-off Recycling Units ³	See Table III-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Curbside Recycling ⁴	See Table III-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Landfill Appliance Collection	Appliances	12	9	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11	11
Paper Shredding Day ⁵	Paper	-	-	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11
Com/Gov/Org Recycling	See Appendix F	12,236	13,780	13,800	13,839	13,878	13,917	13,964	14,011	14,058	14,105	14,152	14,206	14,259	14,313	14,366	14,420	14,452	14,485	14,517	14,549
Recyclers/Brokers	See Appendix F	8,257	10,807	9,600	9,627	9,654	9,681	9,714	9,747	9,780	9,812	9,845	9,882	9,919	9,957	9,994	10,031	10,054	10,076	10,099	10,121
SUBTOTAL		25,593	27,333	27,252	27,329	27,406	27,483	27,576	27,669	27,762	27,855	27,948	28,053	28,159	28,265	28,370	28,476	28,540	28,604	28,668	28,732
<i>OTHER WASTE REDUCTION STRATEGIES</i>																					
Composting Facilities	Yard Waste	3,739	5,877	5,894	5,911	5,927	5,944	5,964	5,984	6,004	6,024	6,044	6,067	6,090	6,113	6,136	6,159	6,173	6,186	6,200	6,214
SUBTOTAL		3,739	5,877	5,894	5,911	5,927	5,944	5,964	5,984	6,004	6,024	6,044	6,067	6,090	6,113	6,136	6,159	6,173	6,186	6,200	6,214
GRAND TOTAL		29,332	32,210	33,146	33,240	33,333	33,427	33,540	33,653	33,766	33,879	33,992	34,120	34,249	34,378	34,506	34,635	34,712	34,790	34,868	34,946

Notes:

- Quantities of material not available.
- The Litter Landing E-Collection was not offered in 2010; it was offered for the first time in 2011 and will be offered every year through the remainder of the planning period. Estimated recycling for this program is based on the quantities collection in 2011.
- Quantities of material recovered are included in the quantities presented for Litter Landing.
- Quantities of material recovered are included in the quantities presented for Litter Landing and Recycler/Brokers.
- The Paper Shredding Day was not offered in 2010; it will be offered for the first time in 2012 and will be offered annually through the remainder of the planning period. Estimated recycling for this program is based on a conservative estimate of 10 tons (approx. 500 boxes of paper).
- Most projections based on the assumption that recycling volumes are a function of generation; adjustments have been made where a specific decrease or increase for a recycling program is expected.

Sample Calculation:

2013 Recycling Strategies Total = 2012 Recycling / 2012 Generation * 2013 Generation
 $27,242 / 85,391 * 85,632 = 27,319$
 2013 Litter Landing = 2012 Litter Landing / 2012 Recycling * 2013 Recycling
 $3,700 / 27,242 * 27,319 = 3,710$

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN UPDATE**

**TABLE V-6
INDUSTRIAL WASTE REDUCTION STRATEGIES**

STRATEGY	MATERIAL	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
		<i>SOURCE REDUCTION STRATEGIES</i>																			
None																					
SUBTOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>RECYCLING STRATEGIES</i>																					
Industrial Recycling	See Appendix F	77,029	75,665	74,326	73,011	71,718	70,449	69,202	67,977	66,774	65,592	64,431	63,291	62,170	61,070	59,989	58,927	57,884	56,860	55,853	54,865
SUBTOTAL		77,029	75,665	74,326	73,011	71,718	70,449	69,202	67,977	66,774	65,592	64,431	63,291	62,170	61,070	59,989	58,927	57,884	56,860	55,853	54,865
<i>OTHER WASTE REDUCTION STRATEGIES</i>																					
None																					
SUBTOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRAND TOTAL		77,029	75,665	74,326	73,011	71,718	70,449	69,202	67,977	66,774	65,592	64,431	63,291	62,170	61,070	59,989	58,927	57,884	56,860	55,853	54,865

Sample Calculations:

2013 Recycling Strategies Total = 2012 Recycling / 2012 Generation * 2013 Generation
 $74,326 / 85,762 * 84,244 = 73,011$

VI. METHODS OF MANAGEMENT: FACILITIES AND PROGRAMS TO BE USED

A. District Methods for Management of Solid Waste

Table VI-1 presents information regarding the solid waste management methods that will be used to manage the total quantities of solid and exempt wastes that are projected to be generated for each year in the 15-year planning period. Table VI-1 also presents data on 2010-2012, as all projections are based on the reference year data for 2010. Please note that the data presented for 2010 represents actual quantities of material reported as having been recycled, composted, and disposed. The amounts for all subsequent years are based upon the projections developed in Chapter V.

Table VI-2 presents data regarding the waste management methods for the residential/commercial sector in the reference year and the projections for the duration of the planning period. Table VI-3 presents the same information for the industrial sector.

B. Demonstration of Access to Capacity

1. Landfill Needs

The District's future needs for disposal capacity are predicated upon the quantities of solid waste that are projected to be generated and recycled/minimized within the District. These projections were used to calculate the aggregate quantities of solid waste that must be disposed of in solid waste facilities during the 15-year planning period.

As presented in Table VI-1, the residential/commercial and industrial generators in the District disposed of a total of 90,847 tons of solid and exempt waste in 2010. As can be seen from Table VI-1, this solid waste management plan predicts very modest increases in the amounts of waste to be disposed in landfill facilities over the course of the planning period. The District's disposal needs are projected to range from 87,149 tons in 2013 to 87,683 tons in 2021. Assuming that landfills operate for 310 days per year, the District will need access to approximately 282 tons per day of disposal capacity. This need is easily satisfied by the Hancock County Sanitary Landfill, which has an authorized maximum daily waste receipt amount of 750 tons per day. At that waste acceptance rate, the Hancock County Sanitary Landfill had 40 years of remaining disposal capacity (as of 2010).

The Hancock County Sanitary Landfill has historically accepted waste that is generated outside of the District for disposal. In 2010, the landfill accepted 49,286 tons of waste generated from sources outside of the District. Thus, the Hancock County Sanitary Landfill accepted an average of 159 tons per day of waste from sources located outside of the District. Taking this quantity into account, the Hancock County Sanitary Landfill would still have sufficient daily capacity to accept 100 percent of the waste to be disposed by the District in landfill facilities.

However, the Hancock County Sanitary Landfill has not historically accepted all of the District's waste that is disposed in landfills. While the Hancock County Sanitary Landfill is the primary facility that will be used for the District's disposal needs, other disposal facilities will likely receive varying amounts of the District's solid waste. Therefore, this Plan update presents a regional capacity analysis that relies on the landfill facilities that accepted waste generated in the District in 2010.

This regional capacity analysis is presented in Table VI-4A. Table VI-4A includes all of the landfill facilities that were identified in Chapter III as having accepted waste from the District for disposal in 2010. Although it is not possible to predict with complete certainty where waste will ultimately be disposed, this Plan update assumes that waste acceptance rates at each of the listed facilities will remain that same as in the reference year. These waste acceptance rates were

determined by calculating the percentage of total waste disposed in landfills in 2010 for each facility. These percentages were then applied to the projections, presented in Table VI-1, for the amount of waste to be disposed in landfill facilities throughout the planning period.

As can be seen in Table VI-4A, the Henry County Landfill, Sunny Farms Landfill and Celina Sanitary Landfill are projected to run out of capacity based on current waste acceptance rates after 2012, 2013 and 2020, respectively. Thus, waste previously allocated to those facilities has been reallocated to the Hancock County Sanitary Landfill beginning in 2013, 2014 and 2021, respectively.

2. *Transfer*

As presented in Table III-3, only 9 tons of District waste was received by transfer facilities in 2010. However, in previous years, larger amounts of waste have been received by transfer facilities, as presented in the table below.

Table VI. A. Summary of District Waste Received by Transfer Facilities 2005-2010

Year	R/C Waste (tons)	Industrial Waste (tons)	Total (tons)
2005	0.83	0	0.83
2006	2.50	0	2.50
2007	101.94	0	101.94
2008	13.95	0	13.95
2009	5.69	0	5.69
2010	8.88	0	8.88

In the absence of a reliable indicator to predict how much District waste will be received by transfer facilities in the future, the District has used the historical data for 2005-2010 to calculate an average amount of District waste received by transfer facilities annually. Thus, for the purposes of this Plan update, it was assumed that 22.3 tons of District waste will be managed by transfer facilities in each year of the planning period.

3. *Recycling*

For each year of the planning period, the District is projected to recover between 27,329 tons and 28,604 tons of residential/commercial material through the District’s drop-off recycling program, special events, recycling programs instituted by commercial generators, and private recyclers and brokers. An additional 56,860 to 73,011 tons of industrial materials are projected to be recovered annually via recycling programs instituted by the industrial sector.

Processing of recyclables will require adequate processing capacity in recycling facilities. Existing facilities in and around the District are expected to have adequate capacity to handle all of the District’s recyclables during the planning period. Recycling activities/facilities are listed in Table VI-4B.

4. *Yard Waste Management*

Table IV-10, which uses national waste composition data, shows that approximately 13.4 percent of the residential/commercial waste generated within the District in the reference year consisted of yard waste. Applying this percentage to total residential/commercial waste generation for 2010, the District generated approximately 13,013 tons of yard waste in 2010. Of this amount, 3,739 tons, or approximately 29 percent, were managed through available yard waste management programs.

Assuming that the residential/commercial generators in the District will continue to generate yard waste at the national rate of 13.4 percent, the District will generate between 13,124 tons and 13,735 tons of yard waste annually during the planning period. Based on the projections presented in Table VI-1, between 5,911 tons and 6,186 tons will be composted annually during the planning

period. Through promotion of the District's Don't-Bag-It campaign, the use of mulching mowers and the continued use of the composting facilities located within the District, it is anticipated that much of the yard waste projected to be generated will be reduced. For the remaining yard waste that is generated in the District, it is expected that the existing yard waste management programs and facilities, as shown in Table VI-4C, will provide sufficient capacity for the planning period.

C. Schedule for Facilities and Programs: New, Expansions, Closures, and Continuations

Table VI-5 presents the implementation schedule for all facilities, strategies, programs, and activities to be used by the District during the planning period.

D. Identification of Facilities

Table VI-6 lists the designated Hancock County Sanitary Landfill and several non-designated solid waste disposal facilities that are likely to receive the District's solid waste during the planning period. At this time, the District intends to utilize all existing recycling facilities and programs as stated in Section III.

E. Authorization Statement to Designate

The Board of Directors of the Hancock County Solid Waste Management District is hereby authorized to establish facility designations in accordance with Section 343.014 and other relevant provisions of the Ohio Revised Code. The Hancock County Sanitary Landfill is currently designated pursuant to Board resolutions 178-99 and 186-99, which are included in Appendix I. It is the intention of this amended solid waste management plan that the Hancock County Sanitary Landfill shall continue to be a designated facility throughout the planning period unless such designation is rescinded by the Board.

F. Waiver Process of Undesignated Facilities

The District has developed procedures for issuing a waiver to allow solid waste to flow to undesignated facilities. The District acts on all waivers requested in writing and submitted to the Policy Committee. These procedures are developed in accordance with Section 343.01(I)(2) of the ORC. The District must act on waiver request within 90 days after receipt, and must establish steps to evaluate the impact of issuance of the waiver upon:

- Projections contained in the District's approved (or ordered to be implemented) plan under Section 3734.53(A)(6) and (A)(7); and
- Implementation and financing of the District's approved (or ordered to be implemented) plan.

G. Siting Strategy for Facilities

In the previous sections, it has been demonstrated that the Hancock County Solid Waste Management District does not need any new facilities during the planning period for management of solid waste generated within the District. Thus, the District has not included a siting strategy in this Plan update.

H. Contingencies for Capacity Assurance and District Program Implementation

At this time, there is no uncertainty associated with the demonstration of access to disposal capacity (demonstration) or program implementation in the District's plan. Therefore, no contingencies have been provided in this Plan update.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE VI-1
WASTE MANAGEMENT METHODS USED AND PROCESSING CAPACITY NEEDED
FOR EACH YEAR OF THE PLANNING PERIOD**

YEAR	TONS OF SW GENERATED	TONS SOURCE REDUCED	NET TONS TO BE MANAGED BY SWMD	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED						
				RECYCLING	TRANSFER	YARD WASTE COMPOSTING	YW LAND APPLICATION	INCINERATION	MSW COMPOSTING	LANDFILLING
				TPY	TPY	TPY	TPY	TPY	TPY	TPY
2010	197,209	0	197,209	102,622	9	3,739	0	0	0	90,847
2011	195,911	0	195,911	102,998	22	5,877	0	0	0	87,036
2012	194,642	0	194,642	101,578	22	5,894	0	0	0	87,170
2013	193,400	0	193,400	100,340	22	5,911	0	0	0	87,149
2014	192,184	0	192,184	99,124	22	5,927	0	0	0	87,133
2015	190,995	0	190,995	97,932	22	5,944	0	0	0	87,120
2016	189,890	0	189,890	96,778	22	5,964	0	0	0	87,148
2017	188,809	0	188,809	95,646	22	5,984	0	0	0	87,179
2018	187,754	0	187,754	94,536	22	6,004	0	0	0	87,214
2019	186,723	0	186,723	93,447	22	6,024	0	0	0	87,252
2020	185,717	0	185,717	92,379	22	6,044	0	0	0	87,294
2021	184,779	0	184,779	91,344	22	6,067	0	0	0	87,368
2022	183,865	0	183,865	90,329	22	6,090	0	0	0	87,446
2023	182,975	0	182,975	89,334	22	6,113	0	0	0	87,527
2024	182,106	0	182,106	88,359	22	6,136	0	0	0	87,611
2025	181,260	0	181,260	87,403	22	6,159	0	0	0	87,698
2026	180,285	0	180,285	86,424	22	6,173	0	0	0	87,689
2027	179,333	0	179,333	85,464	22	6,186	0	0	0	87,683
2028	178,401	0	178,401	84,521	22	6,200	0	0	0	87,679
2029	177,489	0	177,489	83,597	22	6,214	0	0	0	87,679
Planning Period Total Landfill Capacity (2013-2027)										1,310,511

Notes:

1. "Tons of SW Generated", "Net Tons to be Managed by SWMD", and "Landfilling" include exempt waste.
2. "Tons of SW Generated" taken from Table V-4.
3. "Recycling" taken from Tables V-5 and V-6.
4. "Transfer" based on average receipts at transfer facilities 2005-2010.
5. "Yard Waste Composting" taken from Table V-5.

Sample Calculations:

2013 Landfilled Waste = SW Generated - Recycling - Yard Waste Composting
 2013 Landfilled Waste = 193,394 tons - 100,330 tons - 5,911 tons = 87,154 tons landfilled

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE VI-2
SUMMARY FOR RESIDENTIAL/COMMERCIAL WASTE MANAGEMENT METHODS**

YEAR	TONS GENERATED	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED				
		SOURCE REDUCTION & RECYCLING	INCINERATION	COMPOSTING	LANDFILLING	ASH DISPOSAL
		TPY	TPY	TPY	TPY	TPY
2010	97,110	25,593		3,739	67,778	
2011	97,386	27,333		5,877	64,176	
2012	97,662	27,252		5,894	64,516	
2013	97,938	27,329		5,911	64,698	
2014	98,214	27,406		5,927	64,880	
2015	98,489	27,483		5,944	65,063	
2016	98,822	27,576		5,964	65,282	
2017	99,155	27,669		5,984	65,502	
2018	99,488	27,762		6,004	65,722	
2019	99,821	27,855		6,024	65,942	
2020	100,154	27,948		6,044	66,162	
2021	100,533	28,053		6,067	66,413	
2022	100,912	28,159		6,090	66,663	
2023	101,290	28,265		6,113	66,913	
2024	101,669	28,370		6,136	67,163	
2025	102,048	28,476		6,159	67,413	
2026	102,277	28,540		6,173	67,565	
2027	102,507	28,604		6,186	67,716	
2028	102,736	28,668		6,200	67,868	
2029	102,966	28,732		6,214	68,019	

Notes:

1. "Tons of SW Generated" taken from Table V-4.
2. "Source Reduction & Recycling" taken from Table V-5.
2. "Composting" taken from Table V-5.

Sample Calculations:

2013 Landfilled Waste = Tons Generated - Recycling - Yard Waste - (Incineration - Ash Disposal) = 97,938 - 27,319 - 5,911 = 64,708

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
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**TABLE VI-3
SUMMARY FOR INDUSTRIAL WASTE MANAGEMENT METHODS**

YEAR	TONS OF SW GENERATED	MANAGEMENT METHOD USED & PROCESSING CAPACITY REQUIRED				
		SOURCE REDUCTION & RECYCLING	INCINERATION	COMPOSTING	LANDFILLING	ASH DISPOSAL
		TPY	TPY	TPY	TPY	TPY
2010	88,881	77,029			11,852	
2011	87,308	75,665			11,642	
2012	85,762	74,326			11,436	
2013	84,244	73,011			11,234	
2014	82,753	71,718			11,035	
2015	81,288	70,449			10,840	
2016	79,850	69,202			10,648	
2017	78,436	67,977			10,459	
2018	77,048	66,774			10,274	
2019	75,684	65,592			10,092	
2020	74,345	64,431			9,914	
2021	73,029	63,291			9,738	
2022	71,736	62,170			9,566	
2023	70,466	61,070			9,396	
2024	69,219	59,989			9,230	
2025	67,994	58,927			9,067	
2026	66,790	57,884			8,906	
2027	65,608	56,860			8,749	
2028	64,447	55,853			8,594	
2029	63,306	54,865			8,442	

Notes:

1. "Tons of SW Generated" taken from Table V-4.
2. "Source Reduction & Recycling" taken from Table V-6.

Sample Calculations:

2013 Landfilled Waste = Tons Generated - Recycling - (Incineration - Composting - Ash Disposal) = 84,244 - 73,011 = 11,234

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VI-4A
WASTE MANAGEMENT METHOD: Landfilling**

FACILITIES USED BY THE DISTRICT	Gross Airspace (cubic yards)	Capacity (years)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
			2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Hancock County Sanitary Landfill	7,304,801	40	87,473	83,803	83,932	83,916	84,061	84,049	84,076	84,106	84,140	84,177
Henry County Landfill	43,007	2	4	4	4	0	0	0	0	0	0	0
Celina Sanitary Landfill	804,190	10	1	1	1	1	1	1	1	1	1	1
Wyandot County Environmental Landfill	21,703,659	NA	2,919	2,797	2,801	2,801	2,800	2,800	2,801	2,802	2,803	2,804
Evergreen Recycling & Disposal	9,784,567	34	269	258	258	258	258	258	258	258	258	259
Port Clinton Landfill	9,453,527	83	1	1	1	1	1	1	1	1	1	1
Sunny Farms Landfill	4,167,252	3	168	161	161	161	0	0	0	0	0	0
Pine Grove Regional Facility	18,165,168	51	11	11	11	11	11	11	11	11	11	11
District Totals			90,847	87,036	87,170	87,149	87,133	87,120	87,148	87,179	87,214	87,252

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	AMDWRL 2010 (tons)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
			2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Hancock County Sanitary Landfill	N/A	750	84,217	84,290	84,365	84,443	84,524	84,608	84,599	84,593	84,590	84,589
Henry County Landfill	N/A	150	0	0	0	0	0	0	0	0	0	0
Celina Sanitary Landfill	N/A	499	1	0	0	0	0	0	0	0	0	0
Wyandot County Environmental Landfill	N/A	4,500	2,805	2,808	2,810	2,813	2,815	2,818	2,818	2,818	2,818	2,818
Evergreen Recycling & Disposal	N/A	7,500	259	259	259	259	260	260	260	260	260	260
Port Clinton Landfill	N/A	6,000	1	1	1	1	1	1	1	1	1	1
Sunny Farms Landfill	N/A	5,000	0	0	0	0	0	0	0	0	0	0
Pine Grove Regional Facility	N/A	5,000	11	11	11	11	11	11	11	11	11	11
District Totals			87,294	87,368	87,446	87,527	87,611	87,698	87,689	87,683	87,679	87,679

Notes:

1. Landfill capacity information taken from Ohio EPA's 2010 *Ohio Solid Waste Facility Data Tables and Figures*, Table 13. Landfill Capacity and Daily Waste Receipt Amounts 2010.
2. Amount to be landfilled at each facility based on percentage of waste accepted in 2010 and required landfilling capacity projected in Table VI-1.

Sample Calculations:

2010 Hancock County Sanitary Landfill Waste = 96.29% * 90,842 tons = 87,468 tons

2011 Hancock County Sanitary Landfill Waste = (87,468 tons / 90,842 tons) * 87,0307 tons = 83,798 tons

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE VI-4B
WASTE MANAGEMENT METHOD: Recycling**

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Tire Collection Days & Landfill Collection	N/A	43	46	45	45	45	45	46	46	46	46
Paper Shredding Day	N/A	-	-	10	10	10	10	10	10	10	10
Don't Bag It/Backyard Composting Program *	N/A	-	-	-	-	-	-	-	-	-	-
Christmas Tree Recycling	N/A	3	8	8	8	8	8	8	8	8	8
HHW Collection Day	N/A	18	9	10	10	10	10	10	10	10	10
Litter Landing HHW & Paint Collection	N/A	27	5	6	6	6	6	6	6	6	6
Electronics Collection Day	N/A	30	73	50	50	50	50	51	51	51	51
Litter Landing E-Collection	N/A	-	13	13	13	13	13	13	13	13	13
Litter Landing	N/A	4,968	2,584	3,700	3,710	3,721	3,731	3,744	3,757	3,769	3,782
Landfill Appliance Collection	N/A	12	9	10	10	10	10	10	10	10	10
Com/Gov/Org Recycling	N/A	12,236	13,780	13,800	13,839	13,878	13,917	13,964	14,011	14,058	14,105
Industrial Recycling	N/A	77,029	75,665	74,326	73,011	71,718	70,449	69,202	67,977	66,774	65,592
Recyclers/Brokers	N/A	8,257	10,807	9,600	9,627	9,654	9,681	9,714	9,747	9,780	9,812
TOTAL		102,622	102,998	101,578	100,340	99,124	97,932	96,778	95,646	94,536	93,447

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Tire Collection Days & Landfill Collection	N/A	46	46	46	47	47	47	47	47	47	47
Paper Shredding Day	N/A	10	10	10	10	10	10	10	10	11	11
Don't Bag It/Backyard Composting Program *	N/A	-	-	-	-	-	-	-	-	-	-
Christmas Tree Recycling	N/A	8	8	8	8	8	8	8	8	8	8
HHW Collection Day	N/A	10	10	10	10	10	10	10	10	11	11
Litter Landing HHW & Paint Collection	N/A	6	6	6	6	6	6	6	6	6	6
Electronics Collection Day	N/A	51	51	52	52	52	52	52	52	53	53
Litter Landing E-Collection	N/A	13	13	13	13	14	14	14	14	14	14
Litter Landing	N/A	3,794	3,809	3,823	3,837	3,852	3,866	3,875	3,884	3,892	3,901
Landfill Appliance Collection	N/A	10	10	10	10	10	10	10	10	11	11
Com/Gov/Org Recycling	N/A	14,152	14,206	14,259	14,313	14,366	14,420	14,452	14,485	14,517	14,549
Industrial Recycling	N/A	64,431	63,291	62,170	61,070	59,989	58,927	57,884	56,860	55,853	54,865
Recyclers/Brokers	N/A	9,845	9,882	9,919	9,957	9,994	10,031	10,054	10,076	10,099	10,121
TOTAL		92,379	91,344	90,329	89,334	88,359	87,403	86,424	85,464	84,521	83,597

Notes:

* Tonnage from the Don't Bag It/Yard Waste Disposal Program is not included in this table. Specific quantities of materials are not available and are attributed to the composting facilities listed under the Composting Waste Management Method table.

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**TABLE VI-4C
WASTE MANAGEMENT METHOD: Composting**

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Hancock County Landfill		164	258	259	260	261	261	262	263	264	265
Bill Moyer Topsoil		346	544	545	547	548	550	552	554	556	557
City of Findlay Broad Ave Compost		3,026	4,756	4,770	4,783	4,796	4,810	4,826	4,842	4,859	4,875
Luke Theis		10	16	16	16	16	16	16	16	16	16
Findlay Warehousing Co Inc		193	303	304	305	306	307	308	309	310	311
TOTAL		3,739	5,877	5,894	5,911	5,927	5,944	5,964	5,984	6,004	6,024

FACILITIES USED BY THE DISTRICT	Processing Capacity (TPY)	TONS OF SOLID WASTE MANAGED BY EACH FACILITY									
		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Hancock County Landfill		266	267	268	269	270	271	271	272	273	273
Bill Moyer Topsoil		559	561	564	566	568	570	571	572	574	574
City of Findlay Broad Ave Compost		4,891	4,910	4,928	4,947	4,965	4,984	4,995	5,006	5,017	5,017
Luke Theis		16	16	16	16	16	16	17	17	17	17
Findlay Warehousing Co Inc		312	313	314	316	317	318	319	319	320	320
TOTAL		6,044	6,067	6,090	6,113	6,136	6,159	6,173	6,186	6,200	6,200

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**TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS AND ACTIVITIES:
DATES AND DESCRIPTION**

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN	
			OPERATIONS BEGIN	OPERATIONS CEASE
<i>Programs to Satisfy Goal #1 - Availability of Reduction/Recycling Opportunities for Residential/Commercial Waste</i>				
<i>Drop-Off Recycling, Full-Service, Rural</i>				
Village of Arcadia / Washington Twp	Trinity Lutheran Child Development Center	Full-service, rural drop-off	2011	Ongoing
Village of Benton Ridge / Blanchard Twp	Benton Ridge Village Park	Full-service, rural drop-off	2001 or 2002	Ongoing
Village of Jenera / Van Buren Twp	Jenera Town Hall	Full-service, rural drop-off	2011	Ongoing
Village of McComb / Pleasant Twp	McComb Village Maintenance Building	Full-service, rural drop-off	2011	Ongoing
Village of Mt. Blanchard / Delaware Twp	Mt. Blanchard Water Plant	Full-service, rural drop-off	2001 or 2002	2011
Village of Rawson / Union Twp	Rawson Park	Full-service, rural drop-off	2001 or 2002	Ongoing
Village of Van Buren / Allen Twp	Ash Street & Wood Street	Full-service, rural drop-off	2012	Ongoing
Allen Township	Whirlpool Corp	Full-service, rural drop-off	2012	Ongoing
Biglick Township	West Independence United Methodist Church	Full-service, rural drop-off	2001 or 2002	Ongoing
Biglick Township	Biglick Township Hall	Full-service, rural drop-off	2002	Ongoing
Cass Township	Cass Township Hall	Full-service, rural drop-off	2011	Ongoing
Delaware Township	Riverdale School	Full-service, rural drop-off	2012	Ongoing
Eagle Township	Camp Berry Boy Scout Reservation	Full-service, rural drop-off	2001 or 2002	Ongoing
Orange Township	Orange Township House	Full-service, rural drop-off	2001 or 2002	Ongoing
<i>Drop-Off Recycling, Full-Service, Urban</i>				
City of Findlay	Findlay City School	Full-service, urban drop-off	2001 or 2002	2011
City of Findlay	First Lutheran Church	Full-service, urban drop-off	2001 or 2002	2011
City of Findlay	St. John's Lutheran Church	Full-service, urban drop-off	2001 or 2002	Ongoing
City of Findlay	Litter Landing	Full-service, urban drop-off	1983	Ongoing
City of Findlay	Chamberlin Hill	Full-service, urban drop-off	2011	Ongoing
City of Findlay	Main Cross Parking Lot	Full-service, urban drop-off	2011	Ongoing
City of Findlay	Blanchard Valley Co-op	Full-service, urban drop-off	2011	Ongoing
City of Findlay	Hancock County Parking Lot	Full-service, urban drop-off	2011	Ongoing
City of Findlay	Marathon Gas Station	Full-service, urban drop-off	2012	Ongoing
Liberty Township	Hancock Co. Educational Service Center	Full-service, urban drop-off	2001 or 2002	Ongoing

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**TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS AND ACTIVITIES:
DATES AND DESCRIPTION**

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN	
			OPERATIONS BEGIN	OPERATIONS CEASE
<i>Drop-Off Recycling, Part-Time, Rural</i>				
Village of Arcadia / Washington Twp	Trinity Lutheran Child Development Center	Part-time, rural drop-off	2000	2011
Village of Arlington / Madison Twp	Good Hope Lutheran Church	Part-time, rural drop-off	2007	Ongoing
Village of Jenera / Van Buren Twp	Jenera Town Hall	Part-time, rural drop-off	2000	2011
Village of McComb / Pleasant Twp	McComb Village Maintenance Building	Part-time, rural drop-off	2000	2011
Village of Vanlue / Amanda Twp	Vanlue High School	Part-time, rural drop-off	2000	Ongoing
Village of Van Buren / Allen Twp	Van Buren Lutheran Church	Part-time, rural drop-off	2009	2012
Portage Township	Portage Township House	Part-time, rural drop-off	2012	Ongoing
<i>Drop-Off Recycling, Part-Time, Urban</i>				
City of Findlay	First Presbyterian Church	Part-time, urban drop-off	2000	Ongoing
City of Findlay	Bigelow Hill School	Part-time, urban drop-off	2000	2011
City of Findlay	Trinity Lutheran Church	Part-time, urban drop-off	2000	Ongoing
City of Findlay	Lincoln School	Part-time, urban drop-off	2000	2011
City of Findlay	University of Findlay	Part-time, urban drop-off	2000	2011
City of Findlay	Chamberlin Hill	Part-time, urban drop-off	2004	2011
<i>Subscription Curbside Recycling</i>				
City of Findlay	City of Findlay	Privately owned and operated curbside recycling program.	2004	Ongoing
<i>Programs to Satisfy Goals #3 & 4 - Provide Informational and Technical Assistance on Source Reduction, Recycling, Reuse, and Composting Opportunities</i>				
Don't Bag It / Backyard Composting Program	NA	The District will promote this program and distribute literature.	1993	Ongoing
List of Existing Recyclers/Brokers	NA	The District will publish annually in a brochures and/or on the website.	1992	Ongoing
Public Education & Awareness	NA	The District will provide education to schools and adult groups.	NA	Ongoing
District Website	NA	The District will update and maintain its website	2006	Ongoing
Commercial, Governmental & Organizational Recycling	Entire District	The District will provide technical assistance as needed; survey will be conducted at least every 3 years.	1983	Ongoing
Program of Industrial Recycling	Entire District	The District will provide technical assistance as needed; survey will be conducted at least every 3 years.	1994	Ongoing
<i>Programs to Satisfy Goal #5 - Develop Strategies for Managing Tires, Batteries and Household Hazardous Waste</i>				
Electronics Collection Day	NA	The District will provide this collection event annually.	2004	Ongoing
Litter Landing E-Collection	Litter Landing	The District will provide this program annually	2011	Ongoing
Household Hazardous Waste Collection Day	NA	The District will provide this collection event annually.	1996	Ongoing
Litter Landing HHW & Paint Collection	Litter Landing	The District will provide this program May-Nov annually	2010	Ongoing
Tire Collection Days & Landfill Collection	NA	The District will provide this collection event annually; landfill collection will take place year-round.	1994	Ongoing

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**TABLE VI-5
IMPLEMENTATION SCHEDULE FOR FACILITIES, STRATEGIES, PROGRAMS AND ACTIVITIES:
DATES AND DESCRIPTION**

NAME OF FACILITY, STRATEGY, PROGRAM, OR ACTIVITY	LOCATION	DESCRIPTION OF PROGRAM OR FACILITY	APPROXIMATE DATE WHEN	
			OPERATIONS BEGIN	OPERATIONS CEASE
<i>Programs to Satisfy Goal #8 - Annual Reporting of Plan Implementation</i>				
Submission of the Annual District Report	NA	The District will submit the ADR annually to Ohio EPA.	Existing	Ongoing
<i>Other Programs</i>				
Adopt-a-Road	NA	The District will continue to promote and oversee this program.	1994	Ongoing
Christmas Tree Recycling	NA	The District will provide this collection annually.	1993	Ongoing
Landfill Appliance Collection	NA	Collection of appliances will take place year-round at the landfill	1998	Ongoing
Litter Crew	NA	The District will continue to operate this program	1990	Ongoing
Litter Landing	NA	The District will continue to operate the drop-off and processing center.	1983	Ongoing
Paper Shredding Day	NA	The District will provide this collection event annually.	2012	Ongoing
Spring Clean-Up Day	NA	The District will continue to promote and oversee this event.	1983	Ongoing
<i>Yard Waste Facilities</i>				
Hancock County Sanitary Landfill	10400 Township Rd. 107 Findlay, OH 45840	This District will survey this entity at least every three years.	Existing	Ongoing
Bill Moyer Topsoil	16483 State Route 235 Mt. Cory, OH 45868	This District will survey this entity at least every three years.	Existing	Ongoing
City of Findlay Broad Ave. Compost	501 Broad Ave. Findlay, OH 45840	This District will survey this entity at least every three years.	Existing	Ongoing
Luke Theis	Township Rd. 251 Findlay, OH 45840	This District will survey this entity at least every three years.	Existing	Ongoing
Findlay Warehousing Co. Inc.	8556 County Road 140 Findlay, OH 45841	This District will survey this entity at least every three years.	Existing	Ongoing

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**TABLE VI-6
FACILITIES IDENTIFIED AND CURRENT DESIGNATIONS**

FACILITIES IDENTIFIED		FACILITIES CURRENTLY DESIGNATED	
FACILITY NAME	LOCATION	FACILITY NAME	LOCATION
Wyandot County Environmental Landfill	Wyandot Co.	Hancock County Sanitary Landfill	Hancock Co.
Evergreen Recycling & Disposal	Wood Co.		
Port Clinton Landfill	Ottawa Co.		
Pine Grove Regional Facility	Fairfield Co.		

VII. MEASUREMENT OF PROGRESS TOWARD WASTE REDUCTION GOALS

A. District Will Comply with Goals Identified

The 2001 *State Solid Waste Management Plan* (State Plan) mandates that all solid waste management districts develop and implement programs to meet the waste minimization and recycling goals that are established in that document. The goals of the State Plan, and the programs, activities and strategies that the District will implement throughout the planning period to meet those goals were presented in Section V.

The State Plan requires that solid waste management districts demonstrate compliance with one of two overall goals, Goal #1 and Goal #2. These goals, as they apply to solid waste management districts, are summarized below:

Goal #1: Ensure that residential and commercial generators have access to reduction, recycling and waste minimization alternatives. The solid waste management district must ensure that at least 90 percent of the residential sector population of the solid waste management district has access to recycling opportunities.

Goal #2: The solid waste management district must demonstrate that 1) 25 percent of waste generated in the residential/commercial sector is reduced/reused/recycled and 2) 66 percent of the waste generated by the industrial sector is reduced/reused/recycled.

This Plan update will demonstrate compliance with both Goal #1 and Goal #2.

B. Demonstration of Compliance with Goal #1

Solid waste management districts that opt to demonstrate compliance with Goal #1 must provide the following in their solid waste management plans:

- A demonstration that waste reduction, recycling, or minimization programs or activities must be in existence or be scheduled to be available for a minimum of seven of eleven materials that are highly amenable to recycling.
- A demonstration that residential sector generators and commercial sector generators each have access to recycling or other alternative waste management options for a minimum of four designated materials.
- A demonstration that the solid waste management district will have programs in place to encourage residents and commercial entities to participate in the recycling and alternative waste management opportunities being used to demonstrate compliance with Goal #1.

As shown in Table VII-1, the four materials designated to demonstrate compliance with Goal #1 in the residential sector are corrugated cardboard, newspaper, plastic containers and aluminum cans. The four materials designated to demonstrate compliance in the commercial/institutional sector are cardboard, office paper, glass and steel containers.

1. *Demonstration of Compliance with Residential Standards*

a) Service Area

The residential service area for the District encompasses all of Hancock County with the exception of those portions of the City of Fostoria and the Village of Bluffton that reside in Hancock County. The population of the District in 2010 was 71,677 people.

b) Access

For the residential sector, access is defined as the availability of waste reduction and recycling opportunities to at least 90 percent of the residential population. These opportunities can consist of non-subscription and subscription curbside recycling services, drop-off recycling programs, and materials recovery facilities.

In order to determine the percentage of the residential population that has access to recycling opportunities, the Ohio EPA *District Solid Waste Management Plan Format, version 3.0* (Format) provides a formula that assigns standard population credits for each of the types of recycling services available. These credits are as follows:

- Non-subscription curbside recycling service: 100 percent of the residents that are provided with a non-subscription curbside recycling service are considered as having access to that service.
- Subscription curbside recycling service: 25 percent of the residents to whom this service is provided are considered as having access to the service.
- Full-service, urban drop-off: 5,000 residents are assumed to have access to this type of drop-off facility.
- Part-time, urban drop-off: 2,500 residents are assumed to have access to this type of drop-off facility.
- Full-service, rural drop-off: 2,500 residents are assumed to have access to this type of drop-off facility.
- Part-time, rural drop-off: 2,500 residents are assumed to have access to this type of drop-off facility.

Table VII-2 presents the opportunities that are being used to demonstrate compliance with the access standard for the residential standard along with the associated population credits for each opportunity.

Subscription Curbside:

In the reference year, there was one subscription recycling program in operation in the District in the City of Findlay. This program is operated by AE Curbside Recycling Service. The program offers weekly collection of commingled paper, cardboard, aluminum cans, steel cans, glass, and plastic containers.

Full-Service Drop-Offs:

In 2010, the District operated 15 full-service drops. Of these drop-offs, eight serviced urban locations in the City of Findlay and Liberty Township and seven serviced rural communities. All 15 drop-offs were available to the public for over 40 hours per week and provide for the collection of cardboard, newspaper, magazines, aluminum cans, steel cans, plastic containers and glass.

Part-Time Drop-Offs:

In the reference year, the District operated a system of mobile recycling trailers providing drop-off recycling service to 12 locations, six in the City of Findlay and six in rural communities. The District provides each location with a trailer at a regularly scheduled time each month. The length of time that the trailer is available varies from location to location. The materials collected at each of these drop-off locations include cardboard, newspaper, magazines, aluminum cans, steel cans, plastic containers and glass.

c) Participation

Education and Awareness

The availability of the mobile and permanent drop-off recycling units is promoted through District educational materials and on the District website. Additionally, as was discussed in Section IV, the

communities that host the part-time drop-off recycling units are required to promote the availability of those units. The District's education and awareness programs are discussed in full in Section IV and Section V.

Financial Incentives

The District does not currently have a strategy in place for promoting financial incentives to encourage increased recycling and/or waste reduction. Thus, per Ohio Administrative Code 3745-27-90(E)(1), the District has evaluated the feasibility of developing and implementing such a strategy.

Per Ohio EPA guidance, financial incentives should be designed to increase participation in the waste reduction and recycling programs that are used to demonstrate access. Options for financial incentives may include mechanisms that increase the relative cost of disposal, such as volume-based collection rates, or reduce the cost of recycling.

Volume-based collection rates, often called pay-as-you-throw (PAYT) programs, are designed to increase recycling rates by charging residents for the collection of solid waste based on the amount they throw away, rather than a fixed fee. While PAYT has its benefits, there are significant barriers to be overcome in order to implement a PAYT program in the District. Specifically, there are nearly 40 haulers operating in the District. These haulers do not operate under contracts with the municipalities or townships, but rather contract with individual households. Thus, it would be very difficult to gain support from waste haulers to implement a PAYT program. Additionally, of these haulers, only one currently offers curbside recycling, an important component of successful PAYT programs. Thus, it seems unlikely at this time that PAYT would be viable incentive for the District, unless local municipalities move to contracted waste hauling service.

Consequently, the District's evaluation focused on options that would decrease the cost of recycling to residents in order to increase participation in the District's three available recycling programs: curbside recycling, permanent (full-service) drop-offs, and mobile (part-time) drop-offs. Options considered included curbside recycling to replace drop-off service, offering rebates to residents who recycle, and relocating and improving drop-offs to make them more convenient to District residents.

It was determined that the first two of these options, curbside recycling and recycling rebates, were not financially feasible under the projected budget for the planning period. Curbside recycling, specifically in the City of Findlay, has been previously evaluated via the Curbside Recycling Feasibility Study submitted to Ohio EPA in May 2005. This study found that the potential annual cost of a non-subscription curbside recycling program in Findlay would be approximately \$1 million to \$1.5 million, or approximately \$5 to \$8 per household per month. The option of recycling rebates would also be prohibitively expensive and, moreover, difficult to administer with current District staff. The current system of drop-off recycling and decentralized waste collection would make tracking the recycling of residents difficult if not impossible. Without such tracking, it would not be feasible to offer a rebate system.

The final option considered by the District was the relocation and improvement of recycling drop-offs in order to make the drop-off system more convenient to District residents. This strategy is feasible for implementation in the District and, in fact, has been included in the District's programs for the planning period. Specifically, in 2010 the District offered a network of 15 permanent full-time drop-offs and 12 part-time mobile drop-offs; in the reference year 96% of the District's population lived in a community that had at least one recycling drop-off. As part of this Plan update, the District is converting 4 part-time locations to full-time, adding 10 new full-time locations, and adding one new part-time location. In 2013, the first year of the planning period, the District will offer a total of 23 full-time drop-off locations and 6 part-time drop-offs, with more to be implemented in 2014 and beyond. The availability of more permanent full-time locations will be more convenient for District residents and represents a financial investment of approximately \$370,000 over the 15-year planning period.

The feasibility of additional financial incentives will continue to be monitored and evaluated by District staff over the planning period. If additional strategies are deemed feasible and

implemented, the District will provide information on those activities in the appropriate annual district report.

2. *Demonstration of Compliance with Commercial/Institutional Standard*

a) Service Area

The commercial/institutional service area for the District encompasses all of Hancock County with the exception of those portions of the City of Fostoria and the Village of Bluffton that fall within the boundaries of Hancock County.

b) Access

The commercial/institutional sector has access to all of the above-mentioned drop-off locations and permanent modular units located throughout the District. The Litter Landing location handles the four designated materials for commercial/institutional sector of cardboard, office paper, glass and steel containers. In addition, AE Curbside Recycling Service offers commercial recycling service, providing collection of commingled plastics, glass, paper, steel cans, aluminum cans, and cardboard. Finally, several buyback and recyclers are available in the District to this sector.

c) Participation

As was discussed in Section IV, the District provides information to businesses and organizations of opportunities to recycle via newsletters and other literature. Thus, local business owners are made available of the availability of Litter Landing and the other recycling opportunities.

C. Calculation of Goal #2, the Waste Reduction Rate (WRR)

The objective of Goal #2 is to demonstrate that at least 25% of the residential/commercial waste generated is recycled/reused/minimized and that at least 66% of the industrial waste generated is recycled/reused/minimized.

The Format provides the following formula for determining the waste reduction and recycling rates for both the residential/commercial and industrial sectors:

It is first necessary to calculate the tons of waste reduction (TWR)

$$TWR_i = R_i + (C_i - NC_i) + (I_i - A_i) + RA_i$$

Where:

- TWR_i = Tons of waste reduction for year i
- R_i = Tons of waste source reduced and recycled in year i
- C_i = Tons of waste composted in year i
- NC_i = Tons of non-compostables delivered for composting, separated for landfill disposal in year i
- I_i = Tons of waste incinerated in year i
- A_i = Tons of incinerator ash plus bypass waste in year i
- RA_i = Tons of recycled incinerator ash in year i

Next, it is necessary to calculate the estimated generation based on the amount of materials disposed in landfills and the amount of material reduced (EGDWR):

$$EGDWR_i = TWR_i + DL_i$$

Where:

- EGDWR_i = Estimated generation based upon disposal plus waste reduction in year i
- DL_i = Tons of waste disposed in sanitary landfills in year i

The final step is to calculate the waste reduction and recycling rate (WRR):

$$\mathbf{WRR_i = TWR_i / EGDWR_i * 100}$$

The calculations for the residential/commercial sector and industrial sector waste reduction and recycling rates are presented below:

Residential/Commercial Waste Reduction and Recycling Rate:

$$\begin{aligned} R_{2010} &= 25,593 \text{ tons} \\ C_{2010} &= 3,739 \text{ tons} \\ NC_{2010} &= 0 \text{ tons} \\ I_{2010} &= 0 \text{ tons} \\ A_{2010} &= 0 \text{ tons} \\ RA_{2010} &= 0 \text{ tons} \\ TWR_{2010} &= 25,593 \text{ tons} + 3,739 \text{ tons} = 29,332 \text{ tons} \\ DL_{2010} &= 67,778 \text{ tons} \\ EGDWR_{2010} &= 29,332 \text{ tons} + 67,778 \text{ tons} = 97,110 \text{ tons} \\ WRR_{2010} &= 29,332 \text{ tons} / 97,110 \text{ tons} * 100 = \mathbf{30.2\%} \end{aligned}$$

The amount of waste reduction per capita per day (PCWR) is calculated as follows:

$$\mathbf{PCWR_i = (TWR_i * 2000 \text{ lbs}) / (P_i * 365 \text{ days})}$$

Where:

$$\begin{aligned} PCWR_i &= \text{Per capita waste reduction rate in pounds per capita per day in year } i \\ P_i &= \text{District population in year } i \end{aligned}$$

Thus, for 2010, the per capita waste reduction rate for the residential/commercial sector is as follows:

$$\begin{aligned} PCWR_{2010} &= (29,332 \text{ tons} * 2000 \text{ lbs}) / (71,677 * 365 \text{ days}) \\ &= \mathbf{2.24 \text{ lbs/person/day}} \end{aligned}$$

Industrial Waste Reduction and Recycling Rate:

$$\begin{aligned} R_{2010} &= 77,029 \text{ tons} \\ C_{2010} &= 0 \text{ tons} \\ NC_{2010} &= 0 \text{ tons} \\ I_{2010} &= 0 \text{ tons} \\ A_{2010} &= 0 \text{ tons} \\ RA_{2010} &= 0 \text{ tons} \\ TWR_{2010} &= 77,029 \text{ tons} \\ DL_{2010} &= 11,852 \text{ tons} \\ EGDWR_{2010} &= 77,029 \text{ tons} + 11,852 \text{ tons} = 88,881 \text{ tons} \\ WRR_{2010} &= 77,029 \text{ tons} / 88,881 \text{ tons} * 100 = \mathbf{86.7\%} \end{aligned}$$

Thus, for 2010, the per capita waste reduction rate for the industrial sector is as follows:

$$\begin{aligned} PCWR_{2010} &= (77,029 \text{ tons} * 2000 \text{ lbs}) / (71,677 * 365 \text{ days}) \\ &= \mathbf{5.89 \text{ lbs/person/day}} \end{aligned}$$

Total Waste Reduction and Recycling Rate:

$$\begin{aligned} R_{2010} &= 102,622 \text{ tons} \\ C_{2010} &= 3,739 \text{ tons} \\ NC_{2010} &= 0 \text{ tons} \\ I_{2010} &= 0 \text{ tons} \\ A_{2010} &= 0 \text{ tons} \\ RA_{2010} &= 0 \text{ tons} \\ TWR_{2010} &= 102,622 \text{ tons} + 3,739 \text{ tons} = 106,361 \text{ tons} \\ DL_{2010} &= 79,630 \text{ tons} \\ EGDWR_{2010} &= 106,361 \text{ tons} + 79,630 \text{ tons} = 185,991 \text{ tons} \\ WRR_{2010} &= 106,361 \text{ tons} / 185,991 \text{ tons} * 100 = \mathbf{57.2\%} \end{aligned}$$

Thus, for 2010, the per capita waste reduction rate for total waste generated is as follows:

$$\begin{aligned} \text{PCWR}_{2010} &= (106,361 \text{ tons} * 2000 \text{ lbs}) / (71,677 * 365 \text{ days}) \\ &= \mathbf{8.13 \text{ lbs/person/day}} \end{aligned}$$

As the District has chosen to demonstrate compliance with both Goal #1 and Goal #2, and has demonstrated that it reduced and recycled at least 25 percent of its municipal solid waste stream in the reference year, the District has not established a target waste reduction rate. The District hopes that with the expansion of the recycling drop-off program and the planned improvements at Litter Landing in 2014, processing at Litter Landing will increase at least ten percent, and the District will continue to achieve at least 25 percent reduction of municipal solid waste.

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**TABLE VII-1
MATERIALS USED TO DEMONSTRATE COMPLIANCE WITH GOAL #1**

Eleven Materials Highly Amenable to Recycling, etc.	Four Materials Selected for Residential Sector	Four Materials Selected for Commercial/Institutional Sector	Number of Times Material is Selected
Corrugated cardboard	X	X	2
Office Paper		X	1
Newspaper	X		1
Glass Containers ¹		X	1
Steel Containers ¹		X	1
Aluminum Containers ¹	X		1
Plastic Containers ¹	X		1
Wood packaging			
Lead-acid batteries			
Major appliances			
Yard wastes			
Totals	4	4	8

¹ Includes food and beverage containers only.

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**TABLE VII-2
CALCULATION OF ACCESS FOR RESIDENTIAL SECTOR:
HANCOCK COUNTY SERVICE AREA**

Program	Reference Year (2010)		Projected Access (2013) First Year of Planning Period		Projected Access (2027) Last Year of Planning Period	
	Population w/Access ¹	Access Credit	Population w/Access ³	Access Credit	Population w/Access ³	Access Credit
<i>Non-subscription Curbside:</i>						
None	-	-	-	-	-	-
<i>Subscription Curbside:</i>						
City of Findlay ⁴	41,202	10,301	-	-	-	-
<i>Full Service Drop-Off (rural area):</i>						
Village of Arcadia / Washington Twp	-	-	1,520	2,500	1,584	2,500
Village of Benton Ridge / Blanchard Twp	1,123	2,500	1,132	2,500	1,180	2,500
Village of Jenera / Van Buren Twp	-	-	3,654	2,500	3,809	2,500
Village of McComb / Pleasant Twp	-	-	2,490	2,500	2,596	2,500
Village of Mt. Blanchard / Delaware Twp	1,285	2,500	-	-	-	-
Village of Mt. Cory / Union Twp	-	-	1,222	2,500	1,274	2,500
Village of Rawson / Union Twp	1,579	2,500	1,591	2,500	1,659	2,500
Village of Van Buren / Allen Twp	-	-	2,552	2,500	2,661	2,500
Allen Township (Whirlpool)	-	-	2,222	2,500	2,317	2,500
Biglick Township (WIUM Church)	1,106	2,500	1,115	2,500	1,162	2,500
Biglick Township (Township Hall)	1,106	2,500	1,115	2,500	1,162	2,500
Cass Township	-	-	1,001	2,500	1,043	2,500
Delaware Township	-	-	799	2,500	833	2,500
Eagle Township	1,084	2,500	1,092	2,500	1,139	2,500
Orange Township	1,175	2,500	1,184	2,500	1,234	2,500
Portage Township	-	-	697	2,500	727	2,500
<i>Full Service Drop-Off (urban area):</i>						
City of Findlay (City School)	41,202	5,000	-	-	-	-
City of Findlay (First Lutheran)	41,202	5,000	-	-	-	-
City of Findlay (St. John's Lutheran)	41,202	5,000	41,519	5,000	43,287	5,000
City of Findlay (Litter Landing)	41,202	5,000	41,519	5,000	43,287	5,000
City of Findlay (Chamberlin Hill)	-	-	41,519	5,000	43,287	5,000
City of Findlay (Main Cross Lot)	-	-	41,519	5,000	43,287	5,000
City of Findlay (Blanchard Valley Co-op)	-	-	41,519	5,000	43,287	5,000
City of Findlay (Hancock Co Lot)	-	-	41,519	5,000	43,287	5,000
City of Findlay (Marathon Gas Station)	-	-	41,519	5,000	43,287	5,000
Liberty Township	6,660	5,000	6,711	5,000	6,997	5,000
<i>Part Time Drop-Off (rural area):</i>						
Village of Arcadia / Washington Twp	1,508	2,500	-	-	-	-
Village of Arlington / Madison Twp	2,299	2,500	2,317	2,500	2,415	2,500
Village of Jenera / Van Buren Twp	3,626	2,500	-	-	-	-
Village of McComb / Pleasant Twp	2,471	2,500	-	-	-	-
Village of Vanlue / Amanda Twp	1,024	2,500	1,032	2,500	1,076	2,500
Village of Van Buren / Allen Twp	2,533	2,500	2,552	-	2,661	2,500
Portage Township	-	-	697	2,500	727	2,500
<i>Part Time Drop-Off (urban area):</i>						
City of Findlay (First Presbyterian)	41,202	2,500	41,519	2,500	43,287	2,500
City of Findlay (Bigelow Hill School)	41,202	2,500	-	-	-	-
City of Findlay (Trinity Lutheran)	41,202	2,500	41,519	2,500	43,287	2,500
City of Findlay (Lincoln School)	41,202	2,500	-	-	-	-
City of Findlay (University of Findlay)	41,202	2,500	-	-	-	-
City of Findlay (Chamberlin Hill)	41,202	2,500	-	-	-	-
Total Access Credits	82,801		90,000		92,500	
Total ADJUSTED Service Area Population ²	71,677		72,228		75,304	
Access Percentage	116%		125%		123%	

Notes:

1. Township populations exclude the village populations, unless specified.
2. Adjusted Service Area Population excludes the Village of Bluffton and the City of Fostoria.
3. Projected populations of townships, villages, and cities based on ODOT OSR estimates of Hancock County population and 2010 percentage breakdown.
4. Subscription curbside service in Findlay has been excluded from projected access calculations as this is a private program; the District has no control over its future viability.

Sample Calculations:

2010 Population of Hancock County = 74,782
 2015 Population of Hancock County = 75,740
 (Population Estimates from ODOT OSR)
 Estimated Annual Increase = (75,740 - 74,782) / 5 = 191.6
 2013 Population of Hancock County = 74,782 + (191.6 * 3) = 75,357

2010 Population of Findlay = 41,202
 (2010 Population from ODOT OSR)
 Findlay % in 2010 = 41,202 / 74,782 = 55.1%
 Population of Findlay = Population of Hancock County * 55.1%
 2013 Population of Findlay = 75,357 * 55.1% = 41,519

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**TABLE VII-3
PROJECTIONS OF ANNUAL RATE OF WASTE REDUCTION
RESIDENTIAL/COMMERCIAL WASTE**

YEAR	R(1)	C(2)	NC(3)	I (4)	A(5)	RA(6)	DL(7)	TWR(8)	P(9)	WRR(10)	PCWR(11)
2010	25,593	3,739	0	0	0	0	67,778	29,332	71,677	30.2%	2.24
2011	27,333	5,877	0	0	0	0	64,176	33,210	71,881	34.1%	2.53
2012	27,252	5,894	0	0	0	0	64,516	33,146	72,084	33.9%	2.52
2013	27,329	5,911	0	0	0	0	64,698	33,240	72,288	33.9%	2.52
2014	27,406	5,927	0	0	0	0	64,880	33,333	72,491	33.9%	2.52
2015	27,483	5,944	0	0	0	0	65,063	33,427	72,695	33.9%	2.52
2016	27,576	5,964	0	0	0	0	65,282	33,540	72,941	33.9%	2.52
2017	27,669	5,984	0	0	0	0	65,502	33,653	73,187	33.9%	2.52
2018	27,762	6,004	0	0	0	0	65,722	33,766	73,432	33.9%	2.52
2019	27,855	6,024	0	0	0	0	65,942	33,879	73,678	33.9%	2.52
2020	27,948	6,044	0	0	0	0	66,162	33,992	73,924	33.9%	2.52
2021	28,053	6,067	0	0	0	0	66,413	34,120	74,203	33.9%	2.52
2022	28,159	6,090	0	0	0	0	66,663	34,249	74,483	33.9%	2.52
2023	28,265	6,113	0	0	0	0	66,913	34,378	74,763	33.9%	2.52
2024	28,370	6,136	0	0	0	0	67,163	34,506	75,042	33.9%	2.52
2025	28,476	6,159	0	0	0	0	67,413	34,635	75,322	33.9%	2.52
2026	28,540	6,173	0	0	0	0	67,565	34,712	75,491	33.9%	2.52
2027	28,604	6,186	0	0	0	0	67,716	34,790	75,660	33.9%	2.52
2028	28,668	6,200	0	0	0	0	67,868	34,868	75,830	33.9%	2.52
2029	28,732	6,214	0	0	0	0	68,019	34,946	75,999	33.9%	2.52

- (1) Tons of residential/commercial waste source reduced and recycled as shown in Table 6-2
- (2) Tons of residential/commercial waste composted as shown in Table 6-2.
- (3) Tons of non-compostable residential/commercial waste.
- (4) Tons of residential commercial waste incinerated as shown in Table 6-2.
- (5) Tons of residential/commercial waste incinerator ash and bypass waste produced.
- (6) Tons of residential/commercial incinerator ash recycled.
- (7) Tons of residential/commercial waste disposed in landfills as shown in Table 6-2.
- (8) Tons of residential/commercial waste reduction.
- (9) District population as shown in Table 5-1.
- (10) Residential/commercial waste reduction rate as a percentage.
- (11) Residential/commercial waste reduction per capita in pounds per person per day.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VII-4
PROJECTIONS OF ANNUAL RATE OF WASTE REDUCTION
INDUSTRIAL WASTE**

YEAR	R(1)	C(2)	NC(3)	I (4)	A(5)	RA(6)	DL(7)	TWR(8)	P(9)	WRR(10)	PCWR(11)
2010	77,029	0	0	0	0	0	11,852	77,029	71,677	86.7%	5.89
2011	75,665	0	0	0	0	0	11,642	75,665	71,881	86.7%	5.77
2012	74,326	0	0	0	0	0	11,436	74,326	72,084	86.7%	5.65
2013	73,011	0	0	0	0	0	11,234	73,011	72,288	86.7%	5.53
2014	71,718	0	0	0	0	0	11,035	71,718	72,491	86.7%	5.42
2015	70,449	0	0	0	0	0	10,840	70,449	72,695	86.7%	5.31
2016	69,202	0	0	0	0	0	10,648	69,202	72,941	86.7%	5.20
2017	67,977	0	0	0	0	0	10,459	67,977	73,187	86.7%	5.09
2018	66,774	0	0	0	0	0	10,274	66,774	73,432	86.7%	4.98
2019	65,592	0	0	0	0	0	10,092	65,592	73,678	86.7%	4.88
2020	64,431	0	0	0	0	0	9,914	64,431	73,924	86.7%	4.78
2021	63,291	0	0	0	0	0	9,738	63,291	74,203	86.7%	4.67
2022	62,170	0	0	0	0	0	9,566	62,170	74,483	86.7%	4.57
2023	61,070	0	0	0	0	0	9,396	61,070	74,763	86.7%	4.48
2024	59,989	0	0	0	0	0	9,230	59,989	75,042	86.7%	4.38
2025	58,927	0	0	0	0	0	9,067	58,927	75,322	86.7%	4.29
2026	57,884	0	0	0	0	0	8,906	57,884	75,491	86.7%	4.20
2027	56,860	0	0	0	0	0	8,749	56,860	75,660	86.7%	4.12
2028	55,853	0	0	0	0	0	8,594	55,853	75,830	86.7%	4.04
2029	54,865	0	0	0	0	0	8,442	54,865	75,999	86.7%	3.96

- (1) Tons of industrial waste source reduced and recycled as shown in Table 6-3
- (2) Tons of industrial waste composted as shown in Table 6-3.
- (3) Tons of non-compostable industrial waste.
- (4) Tons of industrial waste incinerated as shown in Table 6-3.
- (5) Tons of industrial waste incinerator ash and bypass waste produced.
- (6) Tons of industrial incinerator ash recycled.
- (7) Tons of industrial waste disposed in landfills as shown in Table 6-3.
- (8) Tons of industrial waste reduction.
- (9) District population as shown in Table 4-1.
- (10) Industrial waste reduction rate as a percentage.
- (11) Industrial waste reduction per capita in pounds per person per day.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VII-5
PROJECTIONS OF ANNUAL RATE OF WASTE REDUCTION
TOTAL DISTRICT SOLID WASTE**

YEAR	R(1)	C(2)	NC(3)	I (4)	A(5)	RA(6)	DL(7)	TWR(8)	P(9)	WRR(10)	PCWR(11)
2010	102,622	3,739	0	0	0	0	79,630	106,361	71,677	57.2%	8.13
2011	102,998	5,877	0	0	0	0	75,818	108,876	71,881	58.9%	8.30
2012	101,578	5,894	0	0	0	0	75,952	107,472	72,084	58.6%	8.17
2013	100,340	5,911	0	0	0	0	75,932	106,250	72,288	58.3%	8.05
2014	99,124	5,927	0	0	0	0	75,915	105,052	72,491	58.1%	7.94
2015	97,932	5,944	0	0	0	0	75,902	103,876	72,695	57.8%	7.83
2016	96,778	5,964	0	0	0	0	75,930	102,742	72,941	57.5%	7.72
2017	95,646	5,984	0	0	0	0	75,962	101,630	73,187	57.2%	7.61
2018	94,536	6,004	0	0	0	0	75,997	100,540	73,432	57.0%	7.50
2019	93,447	6,024	0	0	0	0	76,035	99,471	73,678	56.7%	7.40
2020	92,379	6,044	0	0	0	0	76,076	98,423	73,924	56.4%	7.30
2021	91,344	6,067	0	0	0	0	76,151	97,411	74,203	56.1%	7.19
2022	90,329	6,090	0	0	0	0	76,229	96,419	74,483	55.8%	7.09
2023	89,334	6,113	0	0	0	0	76,309	95,447	74,763	55.6%	7.00
2024	88,359	6,136	0	0	0	0	76,393	94,495	75,042	55.3%	6.90
2025	87,403	6,159	0	0	0	0	76,480	93,562	75,322	55.0%	6.81
2026	86,424	6,173	0	0	0	0	76,471	92,597	75,491	54.8%	6.72
2027	85,464	6,186	0	0	0	0	76,465	91,650	75,660	54.5%	6.64
2028	84,521	6,200	0	0	0	0	76,462	90,721	75,830	54.3%	6.56
2029	83,597	6,214	0	0	0	0	76,461	89,811	75,999	54.0%	6.48

- (1) Total tons of waste source reduced and recycled as shown in Table 6-1
- (2) Total tons of waste composted as shown in Table 6-1.
- (3) Total tons of non-compostable waste.
- (4) Total tons of waste incinerated as shown in Table 6-1.
- (5) Total tons of waste incinerator ash and bypass waste produced.
- (6) Total tons of incinerator ash recycled.
- (7) Total tons of waste disposed in landfills as shown in Table 6-1.
- (8) Total tons of waste reduction.
- (9) District population as shown in Table 4-1.
- (10) Total waste reduction rate as a percentage.
- (11) Per capita waste reduction in pounds per person per day.

VIII. COST AND FINANCING OF PLAN IMPLEMENTATION

A. Funding Mechanisms and Amount of Money Generated

1. District Disposal Fees

In 2010, the District was funded primarily by an existing disposal fee that was structured as follows: waste that was generated within the District and disposed at a sanitary landfill located within the District was assessed \$1.50 per ton; waste that was generated outside the District but within the State of Ohio and disposed of at a sanitary landfill located within the District was assessed \$3.00 per ton; and waste that was generated outside the State of Ohio and disposed at a sanitary landfill located within the District was assessed \$1.50 per ton (i.e. a disposal fee with a ratio of \$1.50:\$3.00:\$1.50).

As can be seen from Table VIII-1, the District has projected that it may be necessary to increase the disposal fee within the 15-year planning period in 2023. The projected increase will result in a disposal fee with a ratio of \$2.00:\$4.00:\$2.00. This change will be evaluated and implemented as needed in the next five-year plan update cycle.

Table VIII-1 presents the District's proposed disposal fee schedule, along with the projected quantities of waste upon which disposal fees will be collected and the amounts of revenue that are projected to be collected. The projections for the amounts of solid waste that will be disposed within the District are based on the actual quantities of in-district and out-of-district waste disposed at the Hancock County Sanitary Landfill in 2010. In 2010, 76,745 tons of in-district solid waste and 46,501 tons of out-of-district solid waste were accepted at the Hancock County Sanitary Landfill. These quantities exclude the amount of in-district and out-of-district exempt waste accepted by the landfill as exempt waste, by law, cannot be assessed disposal fees.

To project the amount of in-district waste upon which the disposal fee will be collected, an annual rate of increase of 0.3 percent was applied. As shown in the table below, this is well below the historic rates of increase observed over the past five years. The average annual rate of increase for in-district waste disposed at the Hancock County Sanitary Landfill over the past four years is 1.8 percent. However, with the economic downturn between 2008 and 2009, in-district disposal decreased by 13.2%. Thus, it was the District's opinion that using the average rate of increase of 1.8 percent could over-project the amount of waste that will be disposed at the Hancock County Sanitary Landfill during the planning period. However, the District does anticipate that the amount of waste accepted at the landfill will continue to increase.

Thus, the District utilized a rate of increase of 0.3 percent, based on the rate of increase for residential/commercial generation. Applying the residential/commercial generation annual rate of increase in this manner is somewhat inappropriate given that a portion of the waste disposed at the landfill consists of industrial waste and a portion of the amount generated will be recycled and/or disposed at other landfills. However, given historic trends, the District feels that an annual rate of increase of 0.3 percent for in-district waste disposal is reasonable and conservative.

Table VIII.A. Historic Waste Receipts at the Hancock County Sanitary Landfill: 2006-2010

Year	In-District		Out-of-District		Total	
	Tons	% Increase	Tons	% Increase	Tons	% Increase
2010	76,745	5.3%	46,501	33.2%	123,246	14.4%
2009	72,849	-13.2%	34,913	43.0%	107,762	-0.6%
2008	83,966	5.6%	24,421	-40.0%	108,387	-9.7%
2007	79,503	11.2%	40,491	4.0%	119,994	8.7%
2006	71,496		38,931		110,427	

* From 2006-2010 Annual Operating Reports for the Hancock County Sanitary Landfill; tonnages exclude exempt waste.

This rate of increase has been applied to only in-district waste disposal. Although historical trends indicate that the Hancock County Sanitary Landfill has been accepting increasing quantities of out-of-district waste over the past five years, the rate of increase from one year to another has fluctuated, as seen in the table above. As out-of-district disposal at the landfill is greatly influenced by fees and transportation costs, the District does not feel it can reasonably estimate the rate of increase for out-of-district waste disposal. Thus, this Plan update uses the quantity of out-of-district waste accepted at the Hancock County Sanitary Landfill in 2010 (46,501 tons) in each year of the planning period.

2. *Generation Fee*

In 2010, the District was also funded by an existing generation fee of \$1.50 per ton collected on all solid waste generated within the District and disposed within the State of Ohio. Table VIII-2 presents the District's proposed generation fee schedule along with the amounts of revenue that are projected to be collected throughout the planning period. As can be seen from Table VIII-2, the District has projected that it may be necessary to increase the generation fee to \$2.00 per ton around 2023. This change will be evaluated and implemented as needed in the next five-year plan update cycle.

As with the projected revenue collected via the District's disposal fee, revenue from the District's generation fee was estimated based on the quantity of waste disposed at landfill facilities in 2010. This was done to maintain consistency between the calculations of revenues that are projected from the disposal fee and generation fee. In 2010, approximately 79,595 tons of solid waste that was generated within the District was disposed in landfill facilities. This quantity excludes the amount of exempt waste generated within the district and disposed in landfill facilities.

The projections for the amounts of waste to be landfilled and assessed the generation fee throughout the planning period were determined by applying the residential/commercial generation annual rate of increase of 0.3 percent, as discussed above.

3. *Surcharge on Exempt Waste*

Even though the District cannot assess the disposal or generation fees on exempt waste that is accepted for disposal at the Hancock County Sanitary Landfill, the District does collect a per ton surcharge on all exempt waste accepted for disposal at the landfill. The amount of the surcharge is equal to amount of money that would have been collected on the waste if it had been solid waste. Thus, for in-district exempt waste, the surcharge is equal to the sum of the first tier of the disposal fee and generation fee. Similarly, out-of-district exempt waste is assessed a surcharge equal to the out-of-district tier of the disposal fee.

The quantities of in-district exempt waste upon which the surcharge will be collected were calculated based on the amount of exempt waste disposed at the Hancock County Sanitary Landfill in 2010. Projected in-district exempt waste disposal was determined by applying the residential/commercial waste generation rate of increase (0.3 percent) through the planning period. For out-of-district exempt waste, the surcharge was calculated based on the quantity of out-of-district exempt waste accepted at the Hancock County Sanitary Landfill in 2010 (2,771 tons). This amount was held constant throughout the planning period. The projected quantities of exempt waste upon which the surcharge will be collected and the resultant revenue to be realized are presented in Table VIII-2A.

4. *Summary of District Revenues*

Table VIII-3 presents anticipated revenues from the sources that will provide the District with money. In addition to revenues from the disposal fee, the generation fee, and the surcharge on exempt waste, the District also receives revenue from the sale of recyclables and from other miscellaneous sources, including donations and reimbursements.

B. Costs of Plan Implementation

The entries in Table VIII-5 are the projected annual costs of implementing the programs, activities, and strategies that the District will provide during the planning period. The amounts that are presented are projections that are based on actual expenditures made in 2010 and 2011. The following descriptions are provided to support the costs for each line item presented.

Litter Landing

The costs to maintain and operate Litter Landing are based upon actual costs incurred in 2010-2011 and costs budgeted for 2012. These costs have been projected to increase at two percent throughout the planning period. Labor costs have been projected to increase at three percent. The District does not anticipate any significant increase in the cost of labor to operate Litter Landing as it continues to utilize volunteer and community service labor to offset this cost. Furthermore, the District anticipates that maintenance and operation costs may decrease with the implementation of newer equipment and improved facilities. The estimated costs for the planned renovations and new equipment are shown as a separate line item with costs to be incurred in 2014; these costs include the horizontal bailer and demolition and reconstruction of two buildings, as discussed in Section V.

Waste Reduction & Recycling Programs

Costs for each of the line items under this category, discussed below, are based upon actual costs incurred in 2010-2011 and costs budgeted for 2012. These costs are projected to increase at two percent per year unless otherwise indicated.

Spring Clean Up Day – Costs associated with Spring Clean Up Day include advertising, materials (bags), the volunteer luncheon, and hauling costs to transport collected recyclables to Litter Landing.

Tire Collection Days & Landfill Collection – Costs associated with the Tire Collection Days include advertising and tire processing fees. Other costs associated with this event are borne by the local sponsor. No costs are associated with the Landfill Collection as this service is offered for a fee by the Hancock County Sanitary Landfill.

Don't Bag It/Backyard Composting Program – The costs for this program are typically included under Public Education & Awareness and include expenses for the printing of the Don't Bag It/Backyard Composting brochure. For the purpose of this Plan update, a cost of \$300 has been subtracted from the Public Education & Awareness expenses and assigned to this program.

Christmas Tree Recycling – Costs associated with the Christmas Tree Recycling program include advertising and hauling costs.

HHW Collection Day – Costs associated with the HHW Collection Day include advertising and the cost to hire the contractor to conduct the event.

Litter Landing HHW & Paint Collection – Costs associated with this program include advertising and the cost to dispose of the collected materials

Electronics Collection Day – Costs associated with this event include advertising and the cost to hire the contractor to conduct the event.

Adopt-a-Road – Costs associated with this event include advertising, expenses for the preparation and mailing of brochures and other printed material, and the cost of the signs posted on each segment of county roadway that is part of the Adopt-a-Road program.

Litter Crew – Costs associated with the Litter Crew include the vehicle and fuel costs incurred for the Litter Crew truck. This line item does not include the salary costs for the program; these are included under Labor for Plan & Program Implementation. The District intends to purchase a new truck for the Litter Crew in 2012; this cost is shown as a one-time expenditure in 2012.

Permanent & Mobile Drop-Off Recycling Units – Costs associated with the Recycling Units include costs for both the mobile and permanent recycling units. The first line item under this program, operation and maintenance, includes costs incurred for paint and general repairs necessary to keep the units presentable and in working condition. This line item does not include the salary costs for the program; these are included under Labor for Plan & Program Implementation. The second line item is for the purchase of new/replacement roll-off trailers and vehicles. The District intends to purchase six new roll-offs in 2012, at a cost of approximately \$8,700 each. In addition, the District intends to purchase a new van in 2012, for approximately \$25,000. In 2013, six more roll-offs will be purchased, as well as a new roll-off truck, which is estimated at \$118,000. In 2014-2016, three roll-offs will be purchased each year. In 2017 and thereafter, costs are based on the purchase of one new roll-off per year.

Landfill Appliance Collection –No costs are associated with the Landfill Appliance Collection as this service is offered for a fee by the Hancock County Sanitary Landfill.

Paper Shredding Day – Costs associated with the Paper Shredding Day will include advertising and a portion of the cost for the contractor to conduct the event. Remaining costs are covered by the local sponsor. This event was not held in 2010 or 2011, thus no costs are shown for those years.

Public Education & Awareness – This program covers a wide array of education and public outreach activities. Thus, the costs for the program include expenses for such things as maintenance of the District website, printing of brochures and fact sheets, preparation and maintenance of visual aids, advertising, postage, etc. Costs for this program have been adjusted from actual expenses to account for the Don't Bag It / Backyard Composting Program, List of Existing Recycler/Brokers, Commercial, Governmental & Organization Recycling, and Program of Industrial Recycling, as described under each of those programs herein.

List of Existing Recycler/Brokers – The costs for this program are typically included under Public Education & Awareness and include the preparation of the Recycler/Broker brochure and the listing provided on the District website. For the purpose of this Plan update, a cost of \$300 has been subtracted from the Public Education & Awareness expenses and assigned to this program.

Commercial, Governmental & Organizational Recycling – The costs for this program are typically included under Public Education & Awareness and include preparation of materials, such as brochures and fact sheets, to support commercial, governmental, and organizational recycling efforts. For the purpose of this Plan update, a cost of \$300 has been subtracted from the Public Education & Awareness expenses and assigned to this program.

Program of Industrial Recycling – The costs for this program are typically included under Public Education & Awareness and include preparation of materials, such as brochures and fact sheets, to support industrial recycling efforts. For the purpose of this Plan update, a cost of \$300 has been subtracted from the Public Education & Awareness expenses and assigned to this program.

Labor for Plan & Program Implementation – Costs for the labor to implement the programs listed under the heading “Waste Reduction & Recycling Programs” are allocated to Labor for Plan & Program Implementation. These costs include the salaries and fringe benefits of the employees paid by the District. Labor costs have been projected to increase at three percent throughout the planning period.

Plan Preparation & Monitoring

This category includes costs for supplies and consulting and legal fees incurred for preparation and monitoring for the District's solid waste management plan. Costs for the supplies line item are based upon budgeted 2012 costs and are projected to increase at two percent per year. Costs for consulting fees are estimated to be approximately \$60,000 for each five-year plan update and \$5,000 for all other years for assistance in the preparation of annual district reports and other consulting services as needed. The District does not anticipate incurring any legal fees during the planning period.

District Administration

This category includes costs for the District Coordinator salary and completion of the Quarterly Fee Reports. The District has estimated that the cost for salary and benefits will be approximately \$52,293 in 2013 and has projected an increase of three percent every year thereafter. No cost has been allocated for completion of the Quarterly Fee Reports as this is an administrative function and the costs are covered by other expense categories.

Financial Assistance to Health Department

Beginning in 2013, and every three years thereafter, the District has allocated \$25,000 to the Hancock County Health Department to provide assistance for their enforcement of ORC Section 3734.03, specifically in regard to scrap tires.

C. Funds Allocated from ORC Section 3734.57(B), ORC Section 3734.572 and ORC Section 3734.573

Since the District collects revenue from sources that are authorized under ORC Section 3734.57(B) (the disposal fee) and ORC Section 3734.573 (the generation fee), any expenditures involving these revenues must be made in accordance with ORC Section 3734.57(G). ORC Section 3734.57(G) specifies that revenues from disposal and generation fees can be spent only on ten allowable uses. Table VIII-6 presents the amounts of money that are allocated to each of these allowable uses in the planning period. This solid waste management plan update allocates money to three of the allowable uses: (1) preparation and monitoring of plan implementation, (2) implementation of approved plan, and (3) financial assistance to boards of health for solid waste enforcement.

D. Contingency Funding or Financing

The District is confident that the funding of planned programs is secured by the existing revenue sources, including the projected increase for both disposal fee and the generation fee in 2023. Therefore, at this time no contingent funding or financing sources are planned and Table VIII-7 was not prepared for this Plan update.

E. Summary of Costs and Revenues

Table VIII-8 presents a summary of the District's expected revenues and projected expenditures. The values entered for revenue are equivalent to the values presented in Table VIII-3. The values entered for expenditures correlate to the values from Table VIII-5.

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE VIII-1
PROJECTED DISTRICT DISPOSAL FEE SCHEDULE AND REVENUES**

YEAR	Fee Schedule			Tons Disposed in District			Total Disposal Fee Revenue (\$)
	In-District	Out-of-District	Out-of-State	In-District	Out-of-District	Out-of-State	
2010	\$1.50	\$3.00	\$1.50	76,745	46,501	0	\$254,620
2011	\$1.50	\$3.00	\$1.50	76,975	46,501	0	\$254,965
2012	\$1.50	\$3.00	\$1.50	77,206	46,501	0	\$255,312
2013	\$1.50	\$3.00	\$1.50	77,438	46,501	0	\$255,659
2014	\$1.50	\$3.00	\$1.50	77,670	46,501	0	\$256,008
2015	\$1.50	\$3.00	\$1.50	77,903	46,501	0	\$256,357
2016	\$1.50	\$3.00	\$1.50	78,137	46,501	0	\$256,708
2017	\$1.50	\$3.00	\$1.50	78,371	46,501	0	\$257,059
2018	\$1.50	\$3.00	\$1.50	78,607	46,501	0	\$257,412
2019	\$1.50	\$3.00	\$1.50	78,842	46,501	0	\$257,766
2020	\$1.50	\$3.00	\$1.50	79,079	46,501	0	\$258,121
2021	\$1.50	\$3.00	\$1.50	79,316	46,501	0	\$258,477
2022	\$1.50	\$3.00	\$1.50	79,554	46,501	0	\$258,833
2023	\$2.00	\$4.00	\$2.00	79,793	46,501	0	\$345,589
2024	\$2.00	\$4.00	\$2.00	80,032	46,501	0	\$346,067
2025	\$2.00	\$4.00	\$2.00	80,272	46,501	0	\$346,548
2026	\$2.00	\$4.00	\$2.00	80,513	46,501	0	\$347,029
2027	\$2.00	\$4.00	\$2.00	80,755	46,501	0	\$347,512
2028	\$2.00	\$4.00	\$2.00	80,997	46,501	0	\$347,997
2029	\$2.00	\$4.00	\$2.00	81,240	46,501	0	\$348,483

Notes:

- 1.) 2010 In-District and Out-of-District waste disposed are actual amounts taken from the 2010 Annual Operational Report for the Hancock County Sanitary Landfill.
- 2.) Disposal excludes exempt waste.
- 3.) In-District waste disposal is assumed to increase at 0.3%.

Sample Calculations:

2011 In-District Disposal = 2010 In-District Waste Disposed x 1.003 = 76,745 tons x 1.003 = 76,975 tons
 2011 Disposal Fee Revenue = (2011 In-District Waste x In-District Fee) + (2011 Out-of-District Waste x Out-of-District Fee)
 = (76,975 tons x \$1.50) + (46,501 tons x \$3.00) = \$254,965

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE VIII-2
GENERATION FEE SCHEDULE AND REVENUES**

YEAR	Generation Fee (\$/ton)	Amount of District Waste to be Disposed (tons)	Total Generation Fee Revenue (\$)
2010	\$1.50	79,595	\$119,393
2011	\$1.50	79,834	\$119,751
2012	\$1.50	80,073	\$120,110
2013	\$1.50	80,314	\$120,470
2014	\$1.50	80,555	\$120,832
2015	\$1.50	80,796	\$121,194
2016	\$1.50	81,039	\$121,558
2017	\$1.50	81,282	\$121,923
2018	\$1.50	81,526	\$122,288
2019	\$1.50	81,770	\$122,655
2020	\$1.50	82,015	\$123,023
2021	\$1.50	82,262	\$123,392
2022	\$1.50	82,508	\$123,762
2023	\$2.00	82,756	\$165,512
2024	\$2.00	83,004	\$166,008
2025	\$2.00	83,253	\$166,506
2026	\$2.00	83,503	\$167,006
2027	\$2.00	83,753	\$167,507
2028	\$2.00	84,005	\$168,009
2029	\$2.00	84,257	\$168,513

Notes:

- 1.) 2010 waste disposal taken from the Draft Annual District Report Form for 2010 (as shown in Table III-1).
- 2.) Disposal excludes exempt waste.
- 3.) Waste disposal is assumed to increase at 0.3%.

Sample Calculations:

2011 District Disposal = 2010 District Disposal × 1.005 = 79,595 tons × 1.003 = 79,834 tons
 2011 Generation Fee Revenue = 2011 District Disposal × 2010 Gen Fee = 79,834 × \$1.50 = \$119,751

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE VIII-2A
PROJECTED REVENUE TO BE COLLECTED ON EXEMPT WASTE**

YEAR	Surcharge Collected		Tons Disposed in District		Total Exempt Waste Revenue (\$)
	In-District	Out-of-District	In-District	Out-of-District	
2010	\$3.00	\$3.00	10,688	2,771	\$40,375
2011	\$3.00	\$3.00	10,720	2,771	\$40,471
2012	\$3.00	\$3.00	10,752	2,771	\$40,568
2013	\$3.00	\$3.00	10,784	2,771	\$40,665
2014	\$3.00	\$3.00	10,816	2,771	\$40,762
2015	\$3.00	\$3.00	10,849	2,771	\$40,859
2016	\$3.00	\$3.00	10,881	2,771	\$40,957
2017	\$3.00	\$3.00	10,914	2,771	\$41,055
2018	\$3.00	\$3.00	10,947	2,771	\$41,153
2019	\$3.00	\$3.00	10,980	2,771	\$41,251
2020	\$3.00	\$3.00	11,013	2,771	\$41,350
2021	\$3.00	\$3.00	11,046	2,771	\$41,449
2022	\$3.00	\$3.00	11,079	2,771	\$41,549
2023	\$4.00	\$4.00	11,112	2,771	\$55,531
2024	\$4.00	\$4.00	11,145	2,771	\$55,665
2025	\$4.00	\$4.00	11,179	2,771	\$55,798
2026	\$4.00	\$4.00	11,212	2,771	\$55,932
2027	\$4.00	\$4.00	11,246	2,771	\$56,067
2028	\$4.00	\$4.00	11,280	2,771	\$56,202
2029	\$4.00	\$4.00	11,313	2,771	\$56,337

Notes:

- 1.) 2010 In-District and Out-of-District exempt waste disposed are actual amounts taken from the 2010 Annual Operational Report for the Hancock County Sanitary Landfill.
- 2.) In-District exempt waste disposal is assumed to increase at 0.3%.

Sample Calculations:

2011 In-District Disposal = 2010 In-District Waste Disposed × 1.005 = 10,688 tons × 1.005 = 10,741 tons

2011 Surcharge Revenue = (2011 In-District Waste × In-District Surcharge) + (2011 Out-of-District Waste × Out-of-District Surcharge)

= (10,720 tons × \$3.00) + (2,771 tons × \$3.00) = \$40,471

HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT SOLID WASTE MANAGEMENT PLAN

**TABLE VIII-3
SUMMARY OF PROJECTED REVENUE GENERATED AND
MECHANISMS USED**

YEAR	Type of Revenue Mechanism and Amount Generated					Total Revenue Generated
	Disposal Fee	Generation Fee	Exempt Waste Surcharge	Recycling Revenue	Donations/ Grants	
2010	\$238,632	\$139,510	\$40,375	\$390,830	\$5,843	\$815,190
2011	\$214,611	\$163,895	\$40,471	\$511,876	\$0	\$930,853
2012	\$255,312	\$120,110	\$40,568	\$330,000	\$0	\$745,990
2013	\$255,659	\$120,470	\$40,665	\$336,600	\$0	\$753,394
2014	\$256,008	\$120,832	\$40,762	\$343,332	\$0	\$760,933
2015	\$256,357	\$121,194	\$40,859	\$350,199	\$0	\$768,609
2016	\$256,708	\$121,558	\$40,957	\$357,203	\$0	\$776,425
2017	\$257,059	\$121,923	\$41,055	\$364,347	\$0	\$784,383
2018	\$257,412	\$122,288	\$41,153	\$371,634	\$0	\$792,487
2019	\$257,766	\$122,655	\$41,251	\$379,066	\$0	\$800,739
2020	\$258,121	\$123,023	\$41,350	\$386,648	\$0	\$809,142
2021	\$258,477	\$123,392	\$41,449	\$394,381	\$0	\$817,699
2022	\$258,833	\$123,762	\$41,549	\$402,268	\$0	\$826,413
2023	\$345,589	\$165,512	\$55,531	\$410,314	\$0	\$976,945
2024	\$346,067	\$166,008	\$55,665	\$418,520	\$0	\$986,260
2025	\$346,548	\$166,506	\$55,798	\$426,890	\$0	\$995,742
2026	\$347,029	\$167,006	\$55,932	\$435,428	\$0	\$1,005,395
2027	\$347,512	\$167,507	\$56,067	\$444,137	\$0	\$1,015,223
2028	\$347,997	\$168,009	\$56,202	\$453,019	\$0	\$1,025,227
2029	\$348,483	\$168,513	\$56,337	\$462,080	\$0	\$1,035,413

Notes:

- 1.) Revenue provided for 2010 and 2011 is actual revenue obtained from Ohio EPA Fee Summary and District records.
- 2.) 2012 Recycling Revenue was estimated based upon January-June 2012 actual revenues.
- 2.) Recycling revenue is assumed to increase at 2.0% for 2013 through 2029.
- 3.) Donations, reimbursements and grants have been excluded from revenue projections.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VIII-5
ANNUAL COST OF PLAN IMPLEMENTATION**

Costs of Plan Implementation	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Litter Landing										
Buildings & Maintenance	\$ 39,921	\$ 44,987	\$ 45,419	\$ 46,327	\$ 47,254	\$ 48,199	\$ 49,163	\$ 50,146	\$ 51,149	\$ 52,172
Operations	\$ 38,798	\$ 67,741	\$ 71,050	\$ 72,471	\$ 73,920	\$ 75,399	\$ 76,907	\$ 78,445	\$ 80,014	\$ 81,614
Labor	\$ 251,475	\$ 271,640	\$ 281,545	\$ 289,991	\$ 298,691	\$ 307,652	\$ 316,881	\$ 326,388	\$ 336,179	\$ 346,265
Renovations & Equipment	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 330,194	\$ 384,368	\$ 398,014	\$ 408,790	\$ 669,865	\$ 431,250	\$ 442,951	\$ 454,979	\$ 467,342	\$ 480,051
Waste Reduction & Recycling Programs										
Spring Clean-Up Day	\$ 4,912	\$ 4,862	\$ 5,000	\$ 5,100	\$ 5,202	\$ 5,306	\$ 5,412	\$ 5,520	\$ 5,631	\$ 5,743
Tire Collection Days & Landfill Collection	\$ 14,598	\$ 14,979	\$ 15,000	\$ 15,300	\$ 15,606	\$ 15,918	\$ 16,236	\$ 16,561	\$ 16,892	\$ 17,230
Don't Bag It/Backyard Composting Program	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Christmas Tree Recycling	\$ 2,390	\$ 1,250	\$ 1,500	\$ 1,530	\$ 1,561	\$ 1,592	\$ 1,624	\$ 1,656	\$ 1,689	\$ 1,723
HHW Collection Day	\$ 16,368	\$ 16,739	\$ 20,000	\$ 20,400	\$ 20,808	\$ 21,224	\$ 21,649	\$ 22,082	\$ 22,523	\$ 22,974
Litter Landing HHW & Paint Collection	\$ 22,434	\$ 14,824	\$ 30,000	\$ 30,600	\$ 31,212	\$ 31,836	\$ 32,473	\$ 33,122	\$ 33,785	\$ 34,461
Electronics Collection Day	\$ 5,856	\$ 4,461	\$ 6,000	\$ 6,120	\$ 6,242	\$ 6,367	\$ 6,495	\$ 6,624	\$ 6,757	\$ 6,892
Litter Landing E-Collection	\$ -	\$ 978	\$ 6,000	\$ 6,120	\$ 6,242	\$ 6,367	\$ 6,495	\$ 6,624	\$ 6,757	\$ 6,892
Adopt-a-Road	\$ 1,161	\$ 1,173	\$ 1,300	\$ 1,326	\$ 1,353	\$ 1,380	\$ 1,407	\$ 1,435	\$ 1,464	\$ 1,493
Litter Crew	\$ 4,056	\$ 4,321	\$ 55,600	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,578
Permanent & Mobile Drop-Off Recycling Units										
- Operation & Maintenance	\$ 4,326	\$ 14,146	\$ 10,000	\$ 10,200	\$ 10,404	\$ 10,612	\$ 10,824	\$ 11,041	\$ 11,262	\$ 11,487
- Purchase of New/Replacement Trailer	\$ -	\$ 25,990	\$ 77,200	\$ 171,244	\$ 27,154	\$ 27,698	\$ 28,251	\$ 9,606	\$ 9,798	\$ 9,994
Landfill Appliance Collection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Paper Shredding Day	\$ -	\$ -	\$ 2,500	\$ 2,550	\$ 2,601	\$ 2,653	\$ 2,706	\$ 2,760	\$ 2,815	\$ 2,872
Public Education & Awareness	\$ 5,159	\$ 3,895	\$ 5,800	\$ 5,916	\$ 6,034	\$ 6,155	\$ 6,278	\$ 6,404	\$ 6,532	\$ 6,662
List of Existing Recyclers/Brokers	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Commercial, Governmental, & Organizational Recycling	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Program of Industrial Recycling	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Labor for Plan & Program Implementation	\$ 75,223	\$ 79,456	\$ 87,209	\$ 89,825	\$ 92,520	\$ 95,296	\$ 98,154	\$ 101,099	\$ 104,132	\$ 107,256
Total	\$ 157,683	\$ 188,274	\$ 324,309	\$ 371,943	\$ 232,676	\$ 238,165	\$ 243,792	\$ 230,348	\$ 235,876	\$ 241,635
Plan Preparation & Monitoring										
Supplies	\$ 118	\$ 689	\$ 1,000	\$ 1,020	\$ 1,040	\$ 1,061	\$ 1,082	\$ 1,104	\$ 1,126	\$ 1,149
Consulting	\$ -	\$ -	\$ 50,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 60,000	\$ 5,000	\$ 5,000
Legal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 118	\$ 689	\$ 51,000	\$ 6,020	\$ 6,040	\$ 6,061	\$ 6,082	\$ 61,104	\$ 6,126	\$ 6,149
District Administration										
Solid Waste Director	\$ 41,101	\$ 42,398	\$ 48,807	\$ 52,293	\$ 53,862	\$ 55,478	\$ 57,142	\$ 58,856	\$ 60,622	\$ 62,441
Quarterly Fee Reports	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 41,101	\$ 42,398	\$ 48,807	\$ 52,293	\$ 53,862	\$ 55,478	\$ 57,142	\$ 58,856	\$ 60,622	\$ 62,441
Financial Assistance to Health Department										
Scrap Tire Assistance	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000
Total	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000
Total Expenditures	\$ 529,096	\$ 615,729	\$ 822,130	\$ 864,046	\$ 962,444	\$ 730,954	\$ 774,967	\$ 805,288	\$ 769,967	\$ 815,276

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VIII-5
ANNUAL COST OF PLAN IMPLEMENTATION**

Costs of Plan Implementation	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Litter Landing										
Buildings & Equipment	\$ 53,216	\$ 54,280	\$ 55,366	\$ 56,473	\$ 57,602	\$ 58,754	\$ 59,929	\$ 61,128	\$ 62,351	\$ 63,598
Operations	\$ 83,246	\$ 84,911	\$ 86,610	\$ 88,342	\$ 90,109	\$ 91,911	\$ 93,749	\$ 95,624	\$ 97,536	\$ 99,487
Labor	\$ 356,653	\$ 367,352	\$ 378,373	\$ 389,724	\$ 401,416	\$ 413,458	\$ 425,862	\$ 438,638	\$ 451,797	\$ 465,351
Renovations & Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 493,115	\$ 506,544	\$ 520,348	\$ 534,539	\$ 549,127	\$ 564,123	\$ 579,540	\$ 595,390	\$ 611,684	\$ 628,436
Waste Reduction & Recycling Programs										
Spring Clean-Up Day	\$ 5,858	\$ 5,975	\$ 6,095	\$ 6,217	\$ 6,341	\$ 6,468	\$ 6,597	\$ 6,729	\$ 6,864	\$ 7,001
Tire Collection Days	\$ 17,575	\$ 17,926	\$ 18,285	\$ 18,651	\$ 19,024	\$ 19,404	\$ 19,792	\$ 20,188	\$ 20,592	\$ 21,004
Don't Bag It/Backyard Composting Program	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Christmas Tree Recycling	\$ 1,757	\$ 1,793	\$ 1,828	\$ 1,865	\$ 1,902	\$ 1,940	\$ 1,979	\$ 2,019	\$ 2,059	\$ 2,100
HHW Collection Day	\$ 23,433	\$ 23,902	\$ 24,380	\$ 24,867	\$ 25,365	\$ 25,872	\$ 26,390	\$ 26,917	\$ 27,456	\$ 28,005
Litter Landing HHW Collection	\$ 35,150	\$ 35,853	\$ 36,570	\$ 37,301	\$ 38,047	\$ 38,808	\$ 39,584	\$ 40,376	\$ 41,184	\$ 42,007
Electronics Collection Day	\$ 7,030	\$ 7,171	\$ 7,314	\$ 7,460	\$ 7,609	\$ 7,762	\$ 7,917	\$ 8,075	\$ 8,237	\$ 8,401
Litter Landing Electronics Collection	\$ 7,030	\$ 7,171	\$ 7,314	\$ 7,460	\$ 7,609	\$ 7,762	\$ 7,917	\$ 8,075	\$ 8,237	\$ 8,401
Adopt-a-Road	\$ 1,523	\$ 1,554	\$ 1,585	\$ 1,616	\$ 1,649	\$ 1,682	\$ 1,715	\$ 1,750	\$ 1,785	\$ 1,820
Litter Crew	\$ 4,669	\$ 4,763	\$ 4,858	\$ 4,955	\$ 5,054	\$ 5,155	\$ 5,258	\$ 5,364	\$ 5,471	\$ 5,580
Permanent & Mobile Drop-Off Recycling Units										
- Operating & Maintenance	\$ 11,717	\$ 11,951	\$ 12,190	\$ 12,434	\$ 12,682	\$ 12,936	\$ 13,195	\$ 13,459	\$ 13,728	\$ 14,002
- Purchase of New/Replacement Trailer	\$ 10,193	\$ 10,397	\$ 10,605	\$ 10,817	\$ 11,034	\$ 11,254	\$ 11,479	\$ 11,709	\$ 11,943	\$ 12,182
Landfill Appliance Collection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Paper Shredding Day	\$ 2,929	\$ 2,988	\$ 3,047	\$ 3,108	\$ 3,171	\$ 3,234	\$ 3,299	\$ 3,365	\$ 3,432	\$ 3,501
Public Education & Awareness	\$ 6,796	\$ 6,932	\$ 7,070	\$ 7,212	\$ 7,356	\$ 7,503	\$ 7,653	\$ 7,806	\$ 7,962	\$ 8,121
List of Existing Recycler/Brokers	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Commercial, Governmental, & Organizational Recycling	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Program of Industrial Recycling	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Labor for Plan & Program Implementation	\$ 110,474	\$ 113,788	\$ 117,202	\$ 120,718	\$ 124,339	\$ 128,069	\$ 131,911	\$ 135,869	\$ 139,945	\$ 144,143
Total	\$ 247,541	\$ 253,596	\$ 259,806	\$ 266,174	\$ 272,705	\$ 279,402	\$ 286,271	\$ 293,315	\$ 300,540	\$ 307,951
Plan Preparation & Monitoring										
Supplies	\$ 1,172	\$ 1,195	\$ 1,219	\$ 1,243	\$ 1,268	\$ 1,294	\$ 1,319	\$ 1,346	\$ 1,373	\$ 1,400
Consulting	\$ 5,000	\$ 5,000	\$ 66,500	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 73,500	\$ 5,000	\$ 5,000
Legal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 6,172	\$ 6,195	\$ 67,719	\$ 6,243	\$ 6,268	\$ 6,294	\$ 6,319	\$ 74,846	\$ 6,373	\$ 6,400
District Administration										
Solid Waste Coordinator	\$ 64,314	\$ 66,243	\$ 68,231	\$ 70,277	\$ 72,386	\$ 74,557	\$ 76,794	\$ 79,098	\$ 81,471	\$ 83,915
Quarterly Fee Reports	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ 64,314	\$ 66,243	\$ 68,231	\$ 70,277	\$ 72,386	\$ 74,557	\$ 76,794	\$ 79,098	\$ 81,471	\$ 83,915
Financial Assistance to Health Department										
Tire Clean-Up Assistance	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -
Total	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -
Total Expenditures	\$ 811,141	\$ 832,578	\$ 941,103	\$ 877,234	\$ 900,485	\$ 949,377	\$ 948,925	\$ 1,042,649	\$ 1,025,068	\$ 1,026,702

Notes:

- 1.) All 2010 and 2011 costs are based upon actual expenditures; 2012 costs are based on budgeted expenditures.
- 2.) The costs for all programs, except Litter Landing Labor, Labor for Plan & Program Implementation, Consulting and Solid Waste Coordinator, are expected to increase at 2.0% through the planning period.
- 3.) The cost of labor (Litter Landing Labor, Labor for Plan & Program Implementation, and Solid Waste Coordinator) is projected to increase at 3.0% through the planning period.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VIII-6
REVENUES AND EXPENDITURES**

YEAR	Gross Revenue (\$)	EXPENDITURES *										TOTAL EXPENDITURES	BALANCE	CUMULATIVE BALANCE		
		1	2	3	4	5	6	7	8	9	10					
																\$ 366,746
2010	\$815,190	\$ 118	\$ 528,978					\$ -				\$ 529,096	\$ 286,094	\$ 652,840		
2011	\$930,853	\$ 689	\$ 615,040					\$ -				\$ 615,729	\$ 315,124	\$ 967,964		
2012	\$745,990	\$ 51,000	\$ 771,130					\$ -				\$ 822,130	\$ (76,140)	\$ 891,824		
2013	\$753,394	\$ 6,020	\$ 833,026					\$25,000				\$ 864,046	\$ (110,652)	\$ 781,173		
2014	\$760,933	\$ 6,040	\$ 956,403					\$ -				\$ 962,444	\$ (201,510)	\$ 579,662		
2015	\$768,609	\$ 6,061	\$ 724,892					\$ -				\$ 730,954	\$ 37,656	\$ 617,318		
2016	\$776,425	\$ 6,082	\$ 743,885					\$25,000				\$ 774,967	\$ 1,458	\$ 618,776		
2017	\$784,383	\$ 61,104	\$ 744,184					\$ -				\$ 805,288	\$ (20,904)	\$ 597,871		
2018	\$792,487	\$ 6,126	\$ 763,841					\$ -				\$ 769,967	\$ 22,520	\$ 620,391		
2019	\$800,739	\$ 6,149	\$ 784,127					\$25,000				\$ 815,276	\$ (14,537)	\$ 605,854		
2020	\$809,142	\$ 6,172	\$ 804,969					\$ -				\$ 811,141	\$ (1,999)	\$ 603,855		
2021	\$817,699	\$ 6,195	\$ 826,383					\$ -				\$ 832,578	\$ (14,879)	\$ 588,976		
2022	\$826,413	\$ 67,719	\$ 848,384					\$25,000				\$ 941,103	\$ (114,691)	\$ 474,285		
2023	\$976,945	\$ 6,243	\$ 870,990					\$ -				\$ 877,234	\$ 99,711	\$ 573,997		
2024	\$986,260	\$ 6,268	\$ 894,217					\$ -				\$ 900,485	\$ 85,774	\$ 659,771		
2025	\$995,742	\$ 6,294	\$ 918,083					\$25,000				\$ 949,377	\$ 46,366	\$ 706,137		
2026	\$1,005,395	\$ 6,319	\$ 942,605					\$ -				\$ 948,925	\$ 56,470	\$ 762,607		
2027	\$1,015,223	\$ 74,846	\$ 967,803					\$ -				\$1,042,649	\$ (27,427)	\$ 735,181		
2028	\$1,025,227	\$ 6,373	\$ 993,695					\$25,000				\$1,025,068	\$ 159	\$ 735,340		
2029	\$1,035,413	\$ 6,400	\$1,020,301					\$ -				\$1,026,702	\$ 8,711	\$ 744,051		

- NOTES:
1. Preparation and monitoring of plan implementation
 2. Implementation of approved plan
 3. Financial assistance to boards of health for SW enforcement
 4. Financial assistance to counties within the district to defray the costs of maintaining roads and other public services related to the location or operation of solid waste facilities.
 5. Contracts with boards of health for collecting and analyzing samples from water wells adjacent to SW facilities.
 6. Out-of-state waste inspection program.
 7. Financial assistance to local boards of health to enforce ORC 3734.03 or to local law enforcement agencies having jurisdiction within the district for antilittering.
 8. Financial assistance to boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility
 9. Financial assistance to local municipalities and townships to defray the added cost of roads and services related to the operation of SW facilities.
 10. Compensation to affected communities.

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VIII-8
SUMMARY OF REVENUES AND EXPENDITURES**

Program Description	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Revenues	\$ 815,190	\$ 930,853	\$ 745,990	\$ 753,394	\$ 760,933	\$ 768,609	\$ 776,425	\$ 784,383	\$ 792,487	\$ 800,739
Expenditures										
Plan Implementation										
Litter Landing	\$ 330,194	\$ 384,368	\$ 398,014	\$ 408,790	\$ 669,865	\$ 431,250	\$ 442,951	\$ 454,979	\$ 467,342	\$ 480,051
Spring Clean-Up Day	\$ 4,912	\$ 4,862	\$ 5,000	\$ 5,100	\$ 5,202	\$ 5,306	\$ 5,412	\$ 5,520	\$ 5,631	\$ 5,743
Tire Collection Days & Landfill Collection	\$ 14,598	\$ 14,979	\$ 15,000	\$ 15,300	\$ 15,606	\$ 15,918	\$ 16,236	\$ 16,561	\$ 16,892	\$ 17,230
Don't Bag It/Backyard Composting Program	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Christmas Tree Recycling	\$ 2,390	\$ 1,250	\$ 1,500	\$ 1,530	\$ 1,561	\$ 1,592	\$ 1,624	\$ 1,656	\$ 1,689	\$ 1,723
HHW Collection Day	\$ 16,368	\$ 16,739	\$ 20,000	\$ 20,400	\$ 20,808	\$ 21,224	\$ 21,649	\$ 22,082	\$ 22,523	\$ 22,974
Litter Landing HHW & Paint Collection	\$ 22,434	\$ 14,824	\$ 30,000	\$ 30,600	\$ 31,212	\$ 31,836	\$ 32,473	\$ 33,122	\$ 33,785	\$ 34,461
Electronics Collection Day	\$ 5,856	\$ 4,461	\$ 6,000	\$ 6,120	\$ 6,242	\$ 6,367	\$ 6,495	\$ 6,624	\$ 6,757	\$ 6,892
Litter Landing E-Collection	\$ -	\$ 978	\$ 6,000	\$ 6,120	\$ 6,242	\$ 6,367	\$ 6,495	\$ 6,624	\$ 6,757	\$ 6,892
Adopt-a-Road	\$ 1,161	\$ 1,173	\$ 1,300	\$ 1,326	\$ 1,353	\$ 1,380	\$ 1,407	\$ 1,435	\$ 1,464	\$ 1,493
Litter Crew	\$ 4,056	\$ 4,321	\$ 55,600	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,488	\$ 4,578
Permanent & Mobile Drop-Off Recycling Units	\$ 4,326	\$ 40,136	\$ 87,200	\$ 181,444	\$ 37,558	\$ 38,310	\$ 39,076	\$ 20,646	\$ 21,059	\$ 21,480
Landfill Appliance Collection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Paper Shredding Day	\$ -	\$ -	\$ 2,500	\$ 2,550	\$ 2,601	\$ 2,653	\$ 2,706	\$ 2,760	\$ 2,815	\$ 2,872
Public Education & Awareness	\$ 5,159	\$ 3,895	\$ 5,800	\$ 5,916	\$ 6,034	\$ 6,155	\$ 6,278	\$ 6,404	\$ 6,532	\$ 6,662
List of Existing Recyclers/Brokers	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Commercial, Governmental, & Organizational Recycling	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Program of Industrial Recycling	\$ 300	\$ 300	\$ 300	\$ 306	\$ 312	\$ 318	\$ 325	\$ 331	\$ 338	\$ 345
Labor for Plan & Program Implementation	\$ 75,223	\$ 79,456	\$ 87,209	\$ 89,825	\$ 92,520	\$ 95,296	\$ 98,154	\$ 101,099	\$ 104,132	\$ 107,256
Plan Monitoring / Preparation	\$ 118	\$ 689	\$ 51,000	\$ 6,020	\$ 6,040	\$ 6,061	\$ 6,082	\$ 61,104	\$ 6,126	\$ 6,149
District Administration										
Solid Waste Director	\$ 41,101	\$ 42,398	\$ 48,807	\$ 52,293	\$ 53,862	\$ 55,478	\$ 57,142	\$ 58,856	\$ 60,622	\$ 62,441
Quarterly Fee Reports	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Financial Assistance to Health Department	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000
Total Expenditures	\$ 529,096	\$ 615,729	\$ 822,130	\$ 864,046	\$ 962,444	\$ 730,954	\$ 774,967	\$ 805,288	\$ 769,967	\$ 815,276
Balance	\$ 286,094	\$ 315,124	\$ (76,140)	\$ (110,652)	\$ (201,510)	\$ 37,656	\$ 1,458	\$ (20,904)	\$ 22,520	\$ (14,537)
Cumulative Balance	\$ 366,746	\$ 652,840	\$ 967,964	\$ 891,824	\$ 781,173	\$ 579,662	\$ 617,318	\$ 618,776	\$ 597,871	\$ 605,854

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

**TABLE VIII-8
SUMMARY OF REVENUES AND EXPENDITURES**

Program Description	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Revenues	\$809,142	\$817,699	\$826,413	\$976,945	\$986,260	\$995,742	\$1,005,395	\$1,015,223	\$1,025,227	\$1,025,227
Expenditures										
Plan Implementation										
Litter Landing	\$ 493,115	\$ 506,544	\$ 520,348	\$ 534,539	\$ 549,127	\$ 564,123	\$ 579,540	\$ 595,390	\$ 611,684	\$ 628,436
Spring Clean-Up Day	\$ 5,858	\$ 5,975	\$ 6,095	\$ 6,217	\$ 6,341	\$ 6,468	\$ 6,597	\$ 6,729	\$ 6,864	\$ 7,001
Tire Collection Days & Landfill Collection	\$ 17,575	\$ 17,926	\$ 18,285	\$ 18,651	\$ 19,024	\$ 19,404	\$ 19,792	\$ 20,188	\$ 20,592	\$ 21,004
Don't Bag It/Backyard Composting Program	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Christmas Tree Recycling	\$ 1,757	\$ 1,793	\$ 1,828	\$ 1,865	\$ 1,902	\$ 1,940	\$ 1,979	\$ 2,019	\$ 2,059	\$ 2,100
HHW Collection Day	\$ 23,433	\$ 23,902	\$ 24,380	\$ 24,867	\$ 25,365	\$ 25,872	\$ 26,390	\$ 26,917	\$ 27,456	\$ 28,005
Litter Landing HHW & Paint Collection	\$ 35,150	\$ 35,853	\$ 36,570	\$ 37,301	\$ 38,047	\$ 38,808	\$ 39,584	\$ 40,376	\$ 41,184	\$ 42,007
Electronics Collection Day	\$ 7,030	\$ 7,171	\$ 7,314	\$ 7,460	\$ 7,609	\$ 7,762	\$ 7,917	\$ 8,075	\$ 8,237	\$ 8,401
Litter Landing E-Collection	\$ 7,030	\$ 7,171	\$ 7,314	\$ 7,460	\$ 7,609	\$ 7,762	\$ 7,917	\$ 8,075	\$ 8,237	\$ 8,401
Adopt-a-Road	\$ 1,523	\$ 1,554	\$ 1,585	\$ 1,616	\$ 1,649	\$ 1,682	\$ 1,715	\$ 1,750	\$ 1,785	\$ 1,820
Litter Crew	\$ 4,669	\$ 4,763	\$ 4,858	\$ 4,955	\$ 5,054	\$ 5,155	\$ 5,258	\$ 5,364	\$ 5,471	\$ 5,580
Permanent & Mobile Drop-Off Recycling Units	\$ 21,910	\$ 22,348	\$ 22,795	\$ 23,251	\$ 23,716	\$ 24,190	\$ 24,674	\$ 25,168	\$ 25,671	\$ 26,185
Landfill Appliance Collection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Paper Shredding Day	\$ 2,929	\$ 2,988	\$ 3,047	\$ 3,108	\$ 3,171	\$ 3,234	\$ 3,299	\$ 3,365	\$ 3,432	\$ 3,501
Public Education & Awareness	\$ 6,796	\$ 6,932	\$ 7,070	\$ 7,212	\$ 7,356	\$ 7,503	\$ 7,653	\$ 7,806	\$ 7,962	\$ 8,121
List of Existing Recyclers/Brokers	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Commercial, Governmental, & Organizational Recycling	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Program of Industrial Recycling	\$ 351	\$ 359	\$ 366	\$ 373	\$ 380	\$ 388	\$ 396	\$ 404	\$ 412	\$ 420
Labor for Plan & Program Implementation	\$ 110,474	\$ 113,788	\$ 117,202	\$ 120,718	\$ 124,339	\$ 128,069	\$ 131,911	\$ 135,869	\$ 139,945	\$ 144,143
Plan Monitoring / Preparation	\$ 6,172	\$ 6,195	\$ 6,719	\$ 6,243	\$ 6,268	\$ 6,294	\$ 6,319	\$ 74,846	\$ 6,373	\$ 6,400
District Administration										
Solid Waste Director	\$ 64,314	\$ 66,243	\$ 68,231	\$ 70,277	\$ 72,386	\$ 74,557	\$ 76,794	\$ 79,098	\$ 81,471	\$ 83,915
Quarterly Fee Reports	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Financial Assistance to Health Department	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000	\$ -
Total Expenditures	\$ 811,141	\$ 832,578	\$ 941,103	\$ 877,234	\$ 900,485	\$ 949,377	\$ 948,925	\$ 1,042,649	\$ 1,025,068	\$ 1,026,702
Balance	(\$1,999)	\$ (14,879)	\$ (114,691)	\$ 99,711	\$ 85,774	\$ 46,366	\$ 56,470	\$ (27,427)	\$ 159	\$ (1,474)
Cumulative Balance	\$ 603,855	\$ 588,976	\$ 474,285	\$ 573,997	\$ 659,771	\$ 706,137	\$ 762,607	\$ 735,181	\$ 735,340	\$ 733,865

IX. DISTRICT RULES

A. Existing Rules

The Board of Directors of the Hancock County Solid Waste Management District is presently authorized to adopt rules in accordance with and pursuant to ORC Section 3734.53(C) and ORC Section 343.01(G), to the extent any such rules are determined by the Board to be necessary or desirable to implement any provision or accomplish any objective of the Solid Waste Management Plan. This may include rules:

- Prohibiting or limiting the receipt of waste generated within the District;
- Governing the maintenance, protection, and use of solid waste collection, storage, transfer, disposal, recycling, processing, or resource recovery facilities;
- Governing a program to inspect out-of-state waste; and
- Exempting an owner or operator of a solid waste facility from compliance with local zoning requirements.

The District presently has rules in effect which require all solid waste generated within the District to be delivered to the Hancock County Sanitary Landfill, or to a solid waste facility located outside of the State of Ohio. The District also has rules in effect which prohibit the construction, modification, or enlargement of any solid waste disposal, transfer, recycling, or resource recovery facility unless the Board has approved general plans and specifications for the facility prior to construction. The District's present rules, which were adopted by the Board on April 22, 1999, are set forth in Appendix I.

The District's rules are important for the implementation and financing of the District's solid waste management plan. The centerpiece of the District's plan is the successful operation of the publicly-owned and financed Hancock County Sanitary Landfill, which is an environmentally secure solid waste disposal facility that meets Ohio EPA's requirements concerning the use of Best Available Technology. The Board intends that the Hancock County Sanitary Landfill will be operated in a safe and sanitary manner for the purpose of handling the solid waste disposal needs of all the residential, commercial, industrial, agricultural, and institutional generators of solid waste within the District.

B. Proposed Rules

The Board presently does not propose the adoption of any additional rules; however, this solid waste management plan completely reserves the Board's full authority to adopt any and all rules that it determines to be appropriate in order to address any issue that may arise concerning: the implementation and financing of the plan; the operation of the Hancock County Sanitary Landfill; or the collection, disposal, storage, transfer, and processing of solid waste and recyclable materials generated within or transported into the District. It is the District's policy that the publicly owned and financed Hancock County Sanitary Landfill will be operated in a safe and sanitary manner for the purpose of handling the solid waste disposal needs of all of the residential, commercial, industrial, agricultural and institutional generators of solid waste within the District. Achievement of this objective is central to the implementation and financing of this solid waste management plan. Pursuant to ORC Section 3734.52(E), nothing contained in this plan shall be construed to limit the Board's authority to take any action that may be deemed appropriate to address the operation, use, construction, repair or maintenance of the Hancock County Sanitary Landfill.



APPENDIX A

Resolutions for District Formation

(Omitted)



APPENDIX B

Copies of Public Notices for Public Hearing & Public Comment



APPENDIX C

Copies of Resolutions & Certification Statements Documenting Ratification



APPENDIX D

Identification of Consultants Retained for Plan Preparation



ARCADIS U.S., Inc.
1900 Polaris Parkway, Suite 200
Columbus, Ohio 43240
(614) 888-4953

Contact Person: Wesley M. Rhiel, P.E.



APPENDIX E

District Map



Industrial Recycling & Generation Survey Results

Hancock County Industry - 2010 Data

2010 Data; Survey performed in December 2011

Recycled per SIC Code

SIC No.	I.D. No.	Emp.	Company	Recycled:	TONS																		TOTAL RECYCLING		
					paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber		passenger & truck tires	textiles fabric
2011	7	D & H Meats	Recycled:																					0.00	
2052	1400	Hearthside Foods	Recycled:	431.54	981.77	0.00	147.51	3.69	37.99		62.05					12,563.15			0.03					14,227.73	
2041	62	Mennel Milling Co	Recycled:					18.98																18.98	
2063	7	Michigan Suger Co	Recycled:	4.00	1.00																			5.00	
SIC 20	TOTALS 1476		Recycled:	435.54	982.77	0.00	147.51	22.67	37.99	0.00	62.05	0.00	0.00	0.00	0.00	12,563.15	0.00	0.00	0.03	0.00	0.00	0.00	0.00	14,251.71	
			Recycled:																					0.00	
SIC 22	TOTALS 0		Recycled:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2396	164	PIECO Inc	Recycled:	0.51		6.00		0.20	10.00		2.00								0.01				15.00	poly foam	33.72
SIC 23	TOTALS 164		Recycled:	0.51	0.00	6.00	0.00	0.20	10.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	15.00		33.72
2448	30	BR Pallet	Recycled:			18,289.37																		18,289.37	
SIC 24	TOTALS 30		Recycled:	0.00	0.00	18,289.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18,289.37	
			Recycled:																					0.00	
SIC 25	TOTALS 0		Recycled:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2631	18	Brown Co of Findlay LTD	Recycled:			1.00																		1.00	
SIC 26	TOTALS 18		Recycled:	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	
2752	13	Kennedy Printing Co. Inc.	Recycled:	68.00	1.00	2.00		4.00															1.00	ink	76.00
SIC 27	TOTALS 13		Recycled:	68.00	1.00	2.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00		76.00
			Recycled:																					0.00	
SIC 28	TOTALS 0		Recycled:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2911	1800	Marathon Petroleum Co	Recycled:	96.80			17.65									20			1.31				7.91	electronics	143.67
SIC 29	TOTALS 1800		Recycled:	96.80	0.00	0.00	17.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	0.00	1.31	0.00	0.00	0.00	7.91		143.67	

Hancock County Industry - 2010 Data

2010 Data; Survey performed in December 2011

Recycled per SIC Code

SIC No.	I.D. No.	Emp.	Company	Recycled:	TONS																			TOTAL RECYCLING								
					paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires		textiles fabric	other	specify					
3011		1210	Cooper Tire & Rubber Co	Recycled:	45.00	119.00		497.00							238.00						0.05	1,414.00	3,822.00									6,135.05
3086		85	Createc Corp	Recycled:											0.96																0.96	
3089		150	Rowmark LLC	Recycled:			10.00	1.00	1.00	500.00					0.40																512.40	
3053		1	Superior Plastics INTL	Recycled:	0.00																										0.00	
SIC 30	TOTALS	1446		Recycled:	45.00	119.00	10.00	498.00	1.00	500.00	0.00	0.00	0.00	0.00	239.36	0.00	0.00	0.00	0.00	0.00	0.05	1,414.00	3,822.00	0.00	0.00	0.00	0.00	0.00	0.00	6,648.41		
				Recycled:																											0.00	
SIC 31	TOTALS	0		Recycled:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3273		9	K & L Ready Mix Inc	Recycled:	1.00			2.00	1.00												1.00		4.00								9.00	
SIC 32	TOTALS	9		Recycled:	1.00	0.00	0.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00		
3312		2	Nichidai USA Corp	Recycled:																											0.05	
3366		5	MAASS - Midwest MFG Inc (Dickens Foundry)	Recycled:											24.00																24.00	
3315		19	Seneca Wire & Manufacturing Co	Recycled:	0.20			251.00	1.00						4.00							0.10									256.30	
SIC 33	TOTALS	26		Recycled:	0.20	0.00	0.00	251.00	1.00	0.05	0.00	4.00	24.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.35		
3411		360	Ball Metal Beverage Container	Recycled:	5.30	210.00	137.00	93.23	12.80	4.00					5,400.00																6,212.34	
3462		70	Cascade	Recycled:	0.81		2.50	615.00														0.01									620.77	
3465		158	Findlay Products Corp	Recycled:	4.01	4.50	45.00		11,141.73						11.68																11,206.92	
3479		35	Magnesium Elektron North America	Recycled:	1.00	2.00	68.00	2.00	264.00	1.00					1.00							1.00									341.00	
3441		22	Northwest Installations Inc	Recycled:				5.00	10.00																						15.00	
3441		15	Sausser Steel Co	Recycled:				30.10																							30.10	
3465		188	Tower Automotive	Recycled:				13,366.00							326.40							0.75									13,693.15	
SIC 34	TOTALS	848		Recycled:	11.12	216.50	252.50	14,111.33	11,428.53	5.00	0.00	5,741.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32,119.28		
3599		1	Artisan Enterprise Inc	Recycled:																											0.00	
3599		2	Automotive Machine Shop, Inc	Recycled:		0.25		2.00	0.25						0.25																3.00	
3531		48	Fabco Inc	Recycled:				23.00																							23.00	
3541		278	Grob Systems Inc	Recycled:	3.10		46.90	389.20	24.00						33.10							0.70							0.12 toner cartridges/fl	497.12		
3576		20	Holtgreven Scale & Electronics	Recycled:		1.00		1.50																							2.50	
3599		38	RPM Carbide Die Inc	Recycled:	1.07		1.92	22.61																							25.60	
3531		125	Werk-Brau Co	Recycled:				2,284.00							1.20																2,285.20	

Hancock County Industry - 2010 Data

2010 Data; Survey performed in December 2011

Recycled per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS																			TOTAL RECYCLING			
					paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires		textiles fabric	other	specify
SIC 35	TOTALS	512		Recycled:	4.17	1.25	48.82	2,722.31	24.25	0.00	0.00	34.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.12	2,836.42		
3639		2000	Whirlpool Corp	Recycled:		1,476.00	511.60					680.00													2,717.60		
SIC 36	TOTALS	2000		Recycled:	0.00	1,476.00	511.60	0.00	0.00	680.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,717.60		
3714		250	Cummins Filtration, Inc	Recycled:	3.00	58.00	17.00		8.50	118.50		1.16					0.77		1.50						208.43		
3714		250	Hisan Inc (PA)	Recycled:	20.00	75.00		1,067.66				4.20			710.49										1,877.35		
3714		800	Nissin Brake Ohio Inc (PA)	Recycled:	307.00			3,588.00		133.00		879.00							0.10						4,907.10		
3714		388	Roki America Co Ltd	Recycled:	1.60	83.20	89.70	575.24	0.62	131.60		9.63					0.53	14.90		0.07		0.24			907.32		
SIC 37	TOTALS	1688		Recycled:	331.60	216.20	106.70	5,230.90	9.12	383.10	0.00	893.99	0.00	0.00	0.00	0.00	710.49	0.53	15.67	0.00	1.67	0.00	0.24	0.00	7,900.20		
				Recycled:																					0.00		
SIC 38	TOTALS	0		Recycled:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
				Recycled:																					0.00		
SIC 39	TOTALS	0		Recycled:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
GRAND TOTALS					Recycled:	994	3,013	19,228	22,981	11,492	1,616	0	7,027	24	0	0	0	1,060	12,584	17	0	6	1,414	3,826	0	24	85,307
ADJUSTED TOTALS					Recycled:	994	3,013	19,228	22,981	11,492	1,616	0	0	0	0	0	0	0	12,584	0	0	6	1,414	3,826	0	15	77,168
ADJUSTED DOUBLE COUNTING TOTALS					Recycled:	994	3,013	19,088	22,981	11,492	1,616	0	0	0	0	0	0	0	12,584	0	0	6	1,414	3,826	0	15	77,029

Note:
Blank spaces represent a quantity of zero.

Hancock County Industry - 2010 Data

2010 Data; Survey performed in December 2011

Generated per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS																			TOTAL GENERATION		
					paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires		textiles fabric	other
2011		7	D & H Meats	Generated:	1.00	1.00				1.00														3.00		
2052		1400	Hearthside Foods	Generated:	431.54	981.77	0.00	147.51	3.69	37.99		62.05				435.36	12,563.15		0.03					14,663.09		
2041		62	Mennel Milling Co	Generated:					18.98															18.98		
2063		7	Michigan Suger Co	Generated:	4.00	1.00																		5.00		
SIC 20	TOTALS	1476		Generated:	436.54	983.77	0.00	147.51	22.67	38.99	0.00	62.05	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	14,690.07		
				Generated:																				0.00		
SIC 22	TOTALS	0		Generated:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2396		164	PIECO Inc	Generated:	0.91	231.00	6.10	0.10	0.30	10.30	0.01	2.00					0.02	0.10		0.01			52.00	20.00	322.85	
SIC 23	TOTALS	164		Generated:	0.91	231.00	6.10	0.10	0.30	10.30	0.01	2.00	0.00	0.00	0.00	0.00	0.02	0.10	0.00	0.01	0.00	0.00	52.00	20.00	322.85	
2448		30	BR Pallet	Generated:			18,289.37																	18,289.37		
SIC 24	TOTALS	30		Generated:	0.00	0.00	18,289.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18,289.37	
				Generated:																					0.00	
SIC 25	TOTALS	0		Generated:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2631		18	Brown Co of Findlay LTD	Generated:			1.00																	1.00		
SIC 26	TOTALS	18		Generated:	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	
2752		13	Kennedy Printing Co. Inc.	Generated:	68.00	1.00	2.50		4.00															1.00 ink	76.50	
SIC 27	TOTALS	13		Generated:	68.00	1.00	2.50	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	76.50	
				Generated:																					0.00	
SIC 28	TOTALS	0		Generated:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2911		1800	Marathon Petroleum Co	Generated:				35.25									20.00	0.02		1.31				104.71	161.29	
SIC 29	TOTALS	1800		Generated:	0.00	0.00	0.00	35.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	0.02	0.00	1.31	0.00	0.00	0.00	104.71	0.00	161.29

Hancock County Industry - 2010 Data

2010 Data; Survey performed in December 2011

Generated per SIC Code

SIC No.	I.D. No.	Emp.	Company	Generated:	TONS																			TOTAL GENERATION			
					paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires		textiles fabric	other	specify
3011		1210	Cooper Tire & Rubber Co.	Generated:	45.00	119.00		497.00						238.00						0.05	1,414.00	3,822.00				6,135.05	
3086		85	Createc Corp	Generated:										0.96												0.96	
3089		150	Rowmark LLC	Generated:			10.00	1.00	1.00	500.00				0.40												512.40	
3053		1	Superior Plastics INTL	Generated:																						0.00	
SIC 30	TOTALS	1446		Generated:	45.00	119.00	10.00	498.00	1.00	500.00	0.00	0.00	0.00	239.36	0.00	0.00	0.00	0.00	0.00	0.05	1,414.00	3,822.00	0.00	0.00		6,648.41	
				Generated:																						0.00	
SIC 31	TOTALS	0		Generated:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3273		9	K & L Ready Mix Inc	Generated:	2.00			2.00	1.00											1.00		4.00				10.00	
32	TOTALS	9		Generated:	2.00	0.00	0.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	4.00	0.00	0.00		10.00	
3366		5	MAASS - Midwest MFG Inc (Dickens Foundry)	Generated:									24.00													24.00	
3312	423120	2	Nichidai USA Corp	Generated:	0.20	0.50	0.20																		0.05	Bubble Wrap	0.95
3315		19	Seneca Wire & Manufacturing Co	Generated:	0.70	1.00	11.00	253.00	1.00		0.10	4.00		56.53			12.51			0.10		0.10				340.04	
SIC 33	TOTALS	26		Generated:	0.90	1.50	11.20	253.00	1.00	0.00	0.10	4.00	24.00	56.53	0.00	0.00	12.51	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.05		364.99
3411		360	Ball Metal Beverage Container	Generated:	45.30		137.00	93.23	12.80	6.00		5,400.00				500.00				0.01						6,194.34	
3462		70	Cascade	Generated:	0.31		2.50	615.00				2.45								0.01						620.27	
3465		158	Findlay Products Corp	Generated:	4.13	4.55	45.00		11,141.73			11.68														11,207.09	
3479		35	Magnesium Elektron North America	Generated:	8.00		68.00		199.00	5.00		1.00			66.00		1.00			1.00			1.00	6.00	Floor Dry	356.00	
3441		22	Northwest Installations Inc	Generated:				5.00	10.00																	15.00	
3441		15	Sausser Steel Co	Generated:			0.50	30.10																		30.60	
3465		188	Tower Automotive	Generated:	35.00		60.00	13,366.00				326.40														13,787.40	
SIC 34	TOTALS	848		Generated:	92.74	4.55	313.00	14,109.33	11,363.53	11.00	0.00	5,741.53	0.00	0.00	0.00	0.00	566.00	0.00	1.00	0.00	1.02	0.00	0.00	1.00	6.00	32,210.70	
3599		1	Artisan Enterprise Inc	Generated:	0.50			0.38	0.25																	1.13	
3599		2	Automotive Machine Shop, Inc	Generated:	0.50	0.75		2.00	0.25			0.25				0.25							0.25			4.25	
3531		48	Fabco Inc	Generated:				23.00																		23.00	
3541		278	Grob Systems Inc	Generated:	3.10		46.90	389.20	24.00			33.10							0.70						0.12	toner cartridges/	497.12
3596		20	Holtgreven Scale & Electronics	Generated:	1.00	2.00		3.50																		6.50	
3599		38	RPM Carbide Die Inc	Generated:	2.12	1.05	1.92	22.61																		27.70	
3531		125	Werk-Brau Co	Generated:				2,284.00				1.20														2,285.20	
SIC 35	TOTALS	512		Generated:	7.22	3.80	48.82	2,724.69	24.50	0.00	0.00	34.55	0.00	0.00	0.00	0.00	0.25	0.00	0.70	0.00	0.00	0.00	0.25	0.00	0.12	2,844.90	
3639		2000	Whirlpool Corp			1,476.00	511.60				680.00															2,717.60	

Hancock County Industry - 2010 Data

2010 Data; Survey performed in December 2011

Generated per SIC Code

SIC No.	I.D. No.	Emp.	Company		TONS																			TOTAL GENERATION						
					paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	rubber	passenger & truck tires		textiles fabric	other	specify			
SIC 36	TOTALS	2000		Generated:	0.00	1,476.00	511.60	0.00	0.00	680.00	0.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2,717.60					
3714	250		Cummins Filtration, Inc	Generated:		59.00	17.00		8.50	168.50		330.00						220.00		1.50					804.50					
3714	250		Hisan Inc (PA)	Generated:	20.00	75.00		1,067.66				4.20			710.49											1,877.35				
3714	800		Nissin Brake Ohio Inc (PA)	Generated:	307.00			3,588.00		133.00		879.00								1.00						4,908.00				
3714	388		Roki America Co Ltd	Generated:	169.78	83.20	89.70		588.64	134.92		2.00	9.63	1.00	1.00			17.33	14.90		0.07	11.00	0.24	5.00		1,123.41				
SIC 37	TOTALS	1688		Generated:	496.78	217.20	106.70	4,655.66	597.14	436.42	2.00	1,222.83	1.00	1.00	0.00	0.00	710.49	17.33	234.90	0.00	2.57	11.00	0.24	5.00	0.00	8,718.26				
				Generated:																						0.00				
SIC 38	TOTALS	0		Generated:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				
3915	1		Barbara Hahn Goldwork (BHG)	Generated:	0.05																					0.05				
SIC 39	TOTALS	1		Generated:	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05				
GRAND TOTALS					10,031			Generated:	1,150	3,038	19,300	22,426	12,015	1,677	2	7,356	25	58	0	0	1,725	12,601	237	0	6	1,425	3,827	58	132	87,056

Note:
Blank spaces represent a quantity of zero.



Residential/Commercial Recycling & Generation Survey Results

Hancock County Residential Recycling Special Events

2010 Data

Tire Recycling:

		Total Tires	PTEs	Pounds
Tire Recycling Days:	June 12, 2010	1,826	1,826	36,520
	Summer 2010	150	150	3,000
Hancock County Landfill:	Calendar Year 2010	1,813	2,301	46,020
		3,789	4,277	85,540

Conversion Factors: 20 lb/PTE

Total Tonnage: 42.77

Appliance Recycling:

	Total No.
Appliances Collected at Landfill:	159

Tonnage Recycled: 11.66

Total Tonnage: 11.66

Yard Waste Recycling:

Christmas Tree Recycling Days: 300 trees

(December 26, 2010 through January 17, 2011)

Conversion Factor: 20 lb/tree

Total Tonnage: 3.00

Electronics Recycling:

Electronics Recycling Day:	August 21, 2010	TVs	Monitors	CPUs
		#		
		323	396	339

Total Tonnage: 29.71

Household Hazardous Waste:

Household Hazardous Waste Day: September 10, 2011
35,480 lbs HHW (including recycled paint and oil)
150 lbs lead-acid batteries
200 lbs dry-cell batteries

Litter Landing Paint and Bulb Collection: Mondays, May-Nov 2010
54,276 lbs HHW (including paint and light bulbs)

Total Tonnage: 45.05

Hancock County Commercial Sector - 2010 Data

2010 Data; Survey performed in December 2011

Emp.	ID	Company		TONS																		TOTAL RECYCLING		
				paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	white goods		passenger & truck tires	textiles fabric
25		Appleseed IGA	Recycled:		40.00																			40.00
15		Bowers Heating & Cooling Inc	Recycled:	0.11	0.60	1.00	4.00							0.09						0.15	0.40			6.44
25		Café Marie	Recycled:																					0.00
8		Cooper Service	Recycled:				2.00							4.00										154.00
3		Danby Products	Recycled:			108.00		8.00																116.00
73		Findlay Country Club	Recycled:		20.00			0.08						0.37										30.44
40		Findlay Implement Co	Recycled:	8.50	8.10	1.00		31.44						10.95										70.65
63		Findlay Surgery Center	Recycled:	2.00																				2.00
11		Findlay Surgical Assoc Inc	Recycled:																	0.03				0.03
10		Fornes Brake Service	Recycled:											5.00										11.00
70		Friends Business Source	Recycled:	2.00	5.00	10.00		2.00																19.00
20		GFS MP 069	Recycled:		8.66																			8.66
1		K&K Cabinets	Recycled:			5.00																		5.00
550		Kohl's Distribution Center	Recycled:	4.50	2,000.00	4,000.00	114.00	0.55	1,000.00					0.73										7,147.78
1		Larry's Auto Repair Shop	Recycled:						0.13															0.13
3		Lowenoak Landscape Development	Recycled:																					0.00
		Lowe's Regional Distribution Center	Generated:		352.39	4,239.90																		4,592.29
9		Lucky's Tavern	Recycled:											15.18										15.18
21		Mac Donald Supply	Recycled:			3.00	3.00	0.50	0.50															7.00
3		Mr. Michael's Dry Cleaning	Recycled:																					0.00
2		New China Inn	Recycled:											0.70										0.70
15		Rarey-Roth	Recycled:				0.50		0.20															0.70
8		State Liquor Store	Recycled:		26.00																			26.00
24		Streaker Tractor Sales Inc	Recycled:	0.20		1.50	15.00	0.25						5.00										25.15

GRAND TOTALS	Recycled:	17.31	2,460.75	8,369.40	138.50	42.82	1,000.93	0.00	42.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.69	25.15	152.60	0.00	10.00	12,278.15
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ADJUSTED TOTALS	Recycled:	17.31	2,460.75	8,369.40	138.50	42.82	1,000.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.69	25.15	152.60	0.00	10.00	12,236.13
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Blank spaces represent a quantity of zero.

Not all responding commercial businesses were included. Only businesses with reported recycling were included.

Hancock County Commercial Sector - 2010 Data

2010 Data; Survey performed in December 2011

Emp.	ID	Company	Generated:	TONS																		TOTAL GENERATION		
				paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	white goods		passenger & truck tires	textiles fabric
25		Appleseed IGA	Generated:	0.25	40.00																			40.25
4		Book Nook	Generated:	0.00	0.03																			0.03
15		Bowers Heating & Cooling Inc	Generated:	0.26	0.60	1.00	4.00								0.25			0.01	0.15	0.40				6.95
25		Café Marie	Generated:	1.00	3.00										2.00									7.00
8		Cooper Service	Generated:				2.00										3.00			145.00				204.00
3		Danby Products	Generated:			108.00		8.00																117.00
73		Findlay Country Club	Generated:		20.00			0.08														10.00	Yard Waste	30.44
40		Findlay Implement Co	Generated:	8.50	8.10	1.00		31.44									10.66							70.65
63		Findlay Surgery Center	Generated:	2.00																				2.00
11		Findlay Surgical Assoc Inc	Generated:															0.03						0.03
10		Fornes Brake Service	Generated:											5.00						6.00				11.00
70		Friends Business Source	Generated:	9.00	6.00	12.00		3.00	2.00	1.00					1.00									34.01
1		K&K Cabinets	Generated:			5.00																		5.00
550		Kohl's Distribution Center	Generated:	4.50	2,005.00	5,000.00	114.00	0.55	1,000.00	1.00	0.73				1.00			3.00	25.00			12.00		8,166.78
1		Larry's Auto Repair Shop	Generated:								0.13													0.13
3		Lowenoak Landscape Development	Generated:	2.00		3.00																3.00	YW	8.00
		Lowe's Regional Distribution Center	Generated:		352.39	4,239.90																		4,592.29
9		Lucky's Tavern	Generated:											15.18										15.18
21		Mac Donald Supply	Generated:	1.00	0.50	3.50	3.50	0.50	1.00															10.00
21		Mac Donald Supply	Generated:			0.50	0.50	0.50	0.50															1.50
3		Mr. Michael's Dry Cleaning	Generated:	0.01	0.00																	0.00		0.01
2		New China Inn	Generated:											0.70										1.90
15		Rarey-Roth	Generated:	5.00		1.00	0.50		0.20															6.70
8		State Liquor Store	Generated:	0.50	26.00																			26.50
24		Streaker Tractor Sales Inc	Generated:	1.10	1.50	1.50	15.00	0.25	0.20	0.20	5.00						2.00			1.20				27.95

GRAND TOTALS	Generated:	35.12	2,463.12	9,376.40	139.50	43.82	1,056.13	2.30	42.02	0.00	0.00	0.00	0.00	0.00	5.45	0.00	0.00	18.70	25.15	152.60	12.00	13.00		13,385.30
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ADJUSTED TOTALS	Generated:	35.12	2,463.12	9,376.40	139.50	43.82	1,056.13	2.30	42.02	0.00	0.00	0.00	0.00	0.00	5.45	0.00	0.00	18.70	25.15	152.60	12.00	13.00		13,385.30
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Blank spaces represent a quantity of zero.

Hancock County Residential Recycling Table

2010 Data

Materials	Residential Data* (Special Collections) Total (tons)	Commercial Data from COMDATA_10.xls Total (tons)	Recycler Data from RECYCLER_10.xls Total (tons)	Sum Total (tons)
Appliances	11.66	25.15	500.00	536.81
Lead-Acid Batteries	0.08	18.69	4.00	22.76
Dry Cell Batteries	0.10	--	--	0.10
Food	--	--	--	0.00
Glass	--	--	462.77	462.77
HHW	44.88	--	--	44.88
Ferrous Metals	--	138.50	6,454.46	6,592.96
Non-Ferrous Metals	--	42.82	342.31	385.13
Cardboard	--	2,460.75	3,114.31	5,575.06
Paper	--	17.31	2,056.08	2,073.39
Plastic	--	1,000.93	320.64	1,321.57
Rubber	--	--	--	0.00
Tires	42.77	152.60	0.00	195.37
Textiles	--	--	--	0.00
Oil / Automotive Fluids	--	--	--	0.00
Wood	--	8,369.40	4.66	8,374.06
Yard Waste	3.00	10.00	3,739.40	3,752.40
Commingled Recyclables	--	--	--	0.00
Electronics/Computers	29.71	--	--	29.71
Polyurethane Foam	--	--	--	0.00
Totals	132.2	12,236.1	16,998.6	29,366.96

* Tonnages of recyclables collected from the residential sector via permanent and mobile recycling drop offs is included under "Recycler Data" as it is all taken to Litter Landing for processing



Recycler/Broker Recycling Survey Results

Hancock County Recyclers/Broker Survey Data

2010 Data; Survey performed in December 2011

Emp.	Company		TONS																				TOTAL RECYCLING		
			paper	cardboard	wood	ferrous	nonferrous	plastics	glass	oil	stone, clay, sand	concrete	non-exempt foundry sand/sludge	ash	sludge	food	non hazardous chemicals	composites	batteries	white goods	passenger & truck tires	textiles fabric		yard waste	other
2	AE Curbside	Recycled:	11.00	3.50		5.20	2.10	6.30	12.70									0.10							40.9
3	All Recycling Management (Formerly E&J Pallet)	Recycled:				2,400.00	97.00																	2,497.0	
	Bill Moyer Topsoil	Recycled:																				346.00		346.0	
	City of Findlay Broad Ave Compost	Recycled:																				3,026.00		3,026.0	
	Findlay Warehousing Co Inc	Recycled:																				193.00		193.0	
6	Flag City Recycling	Recycled:				4,000.00	250.00											7.00	500.00					4,757.0	
10	Hancock County Landfill	Recycled:																	11.66	23.01		164.40		199.1	
10	Litter Landing	Recycled:	2,054.18	2,063.75		82.70	28.80	275.70	462.77															4,967.9	
	Lowe's Companies, Inc.	Recycled:		75.60	4.66			0.09																80.4	
	Luke Theis	Recycled:																				10.00		10.0	
	Various Scrap Tire Recyclers, per OEPA	Recycled:																		22,000.77				22,000.8	
	Walmart Recycling in Ohio	Recycled:	7.76	1,067.12		0.49		45.85																1,121.2	
	Werlor Recycling	Recycled:			43.23																			43.2	
Grand Total		Recycled:	2,072.9	3,210.0	47.9	6,488.4	377.9	327.9	475.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	511.7	22,023.8	0.0	3,739.4	0.0	39,282.4
Adjusted Totals		Recycled:	2,072.9	3,210.0	47.9	6,488.4	377.9	327.9	475.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	511.7	23.0	0.0	3,739.4	0.0	17,281.7
Adjusted Double Counting Totals		Recycled:	2,056.1	3,114.3	47.9	6,454.5	342.3	320.6	462.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	500.0	0.0	0.0	3,739.4	0.0	17,041.9

Note:

1. The material from Werlor Recycling is from the industrial sector; all other material is residential/commercial. The quantities of recycling from Werlor have been attributed under the industrial recycling totals.
2. The quantity of tires reported as being recycled in Hancock County is identified as "subject to change" per Ohio EPA. This quantity is questionable and has been excluded from the recycling totals.
3. Blank spaces represent a quantity of zero.

16,998.6



APPENDIX F.4

Double Counting Adjustments to Survey Results

Hancock County Double Counting Table

2010 Data Adjusted Double Counting

Material	Recycler/Buyback/Broker		Total Reported from Industries/Businesses to these Companies*	Source
Paper	Litter Landing		5.86	Industry
	Litter Landing		11.0	Res/Com
		Paper Total	16.9	
Cardboard	Litter Landing		59.0	Industry
	Litter Landing		3.5	Res/Com
	Litter Landing		33.2	Commercial
		Cardboard Total	95.7	
Wood	BR Pallet		139.5	Industry
		Wood Total	139.5	
Plastics	Litter Landing		6.3	Res/Com
	Litter Landing		1.0	Commercial
		Plastics Total	7.3	
Ferrous	Litter Landing		1.0	Industry
	Litter Landing		27.7	Industry
	Flag City Recyclers		5.2	Res/Com
		Ferrous Total	33.9	
Non-Ferrous	Flag City Recyclers		32.5	Industry
	Flag City Recyclers		2.1	Res/Com
	Flag City Recyclers		1.0	Commercial
		Non-Ferrous Total	35.6	
Glass	Litter Landing		12.7	Res/Com
		Glass Total	12.7	
Batteries	Flag City Recyclers		0.1	Res/Com
	Flag City Recyclers		3.0	Commercial
		Batteries Total	3.1	
Tires	Hancock County Landfill		23.0	Res/Com
		Tires Total	23.0	
White Goods	Hancock County Landfill		11.7	Res/Com
		White Goods Total	11.7	

* These material totals were subtracted from the recycler data, with the exception of wood sent to BR Pallet, which was subtracted from the industrial data (BR Pallet is listed under industry).



APPENDIX G

Recycling Drop-Off Locations & Mobile Trailer Locations/Schedule

2010 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule/ Availability	Collected Materials	Representing
FULL-TIME RECYCLING UNITS				
1	Findlay City School Administrative Bld. 200 W. Main Cross Street Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
2	First Lutheran Church 109 E. Lincoln & S. Main St. Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
3	St. John's Lutheran Church 1701 Tiffin Avenue Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
4	West Independence United Methodist Church 22876 US 224 Fostoria, Ohio 44830	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Biglick Township
5	Biglick Township Hall 8273 Twp. Rd 258 Alvada, Ohio 44802	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Biglick Township
6	Camp Berry- Boy Scout Res. 11716 CR 40 Eagle Township Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Eagle Township
7	Hancock County Educational Service Center 7746 CR 140 Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Liberty Township
8	Orange Township House CR 28 & SR 235 Bluffton, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Orange Township
9	Benton Ridge Village Park Benton Ridge, Ohio 45816	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Benton Ridge / Blanchard Township
10	Water Plant Village of Mt. Blanchard Mt. Blanchard, Ohio 45827	Fulltime, 24/7	Clear, Green & Brown Glass, Steel Cans, Plastics, Newspaper, Corrugated Cardboard	Village of Mt. Blanchard / Delaware Township
11	Rawson Park Village of Rawson Rawson, Ohio 45881	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Rawson / Union Township

2010 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule/ Availability	Collected Materials	Representing
PART-TIME RECYCLING UNITS				
1	First Presbyterian Church 2330 S. Main Street Findlay, OH	3rd Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
2	Bigelow Hill School 300 Hillcrest Avenue Findlay, OH	2nd Weekend of month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
3	Trinity Lutheran Church 935 W. Bigelow Avenue Findlay, OH	Last Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
4	Lincoln School 200 West Lincoln Street Findlay, OH	Last Monday of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
5	University of Findlay 1000 N. Main Street Findlay, OH	2nd Friday of the month	Computer/Office Paper, Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines	City of Findlay
6	Chamberlin Hill 600 West Yates Findlay, OH	1st Monday of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
7	Trinity Lutheran Child Development Center SR 12, Arcadia, OH	Last Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Arcadia / Washington Township
8	Good Hope Lutheran Church Arlington, OH	3rd Saturday of the month	Corrugated Cardboard, Glass, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Arlington / Madison Township
9	Jenera Town Hall Jenera, OH	1st & 2nd Weekend of the month / Thurs-Mon	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Jenera / Van Buren Township
10	McComb City Maintenance Building McComb, OH	3rd Tues/Wed of month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of McComb / Pleasant Township
11	Van Buren Lutheran Church Van Buren, OH	2nd Saturday of the month	Corrugated Cardboard, Glass, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Van Buren / Allen Township
12	Vanlue High School 301 S East Street Vanlue, OH	1st weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Vanlue / Amanda Township

2012 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule/ Availability	Collected Materials	Representing
FULL-TIME RECYCLING UNITS				
1	Hancock County Parking Lot in vicinity of library Cory St. & Front St. Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
2	Chamberlin Hill 600 West Yates Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
3	Open Lot E. Main Cross St. & Blanchard St. Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
4	Blanchard Valley Co-op CR 236 and SR 12 Findlay, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
5	West Independence United Methodist Church 22876 US 224 Fostoria, Ohio 44830	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Biglick Township
6	Biglick Township Hall 8273 Twp. Rd 258 Alvada, Ohio 44802	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Biglick Township
7	Cass Township Hall 2249 CR 18 Arcadia, Ohio 44804	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Cass Township
8	Camp Berry- Boy Scout Res. 11716 CR 40 Eagle Township Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Eagle Township
9	Hancock County Educational Service Center 7746 CR 140 Findlay, Ohio 45840	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Liberty Township
10	Orange Township House CR 28 & SR 235 Bluffton, Ohio	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Orange Township

2012 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule/ Availability	Collected Materials	Representing
11	Deweyville Church CR 203	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Portage Township
12	Arcadia Trinity Lutheran Child Development Center SR 12, Arcadia	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Arcadia / Washington Township
13	Benton Ridge Village Park Benton Ridge, Ohio 45816	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Benton Ridge / Blanchard Township
14	Jenera Town Park 18800 SR 698 Jenera, Ohio 45841	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Jenera / Van Buren Township
15	McComb Village Maintenance Building	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of McComb / Pleasant Township
16	Rawson Park Village of Rawson Rawson, Ohio 45881	Fulltime, 24/7	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Rawson / Union Township
17	<i>Marathon Gas Station Interstate 75 & SR 12</i>	<i>Fulltime, 24/7 (To be added by 2013)</i>	<i>Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans</i>	<i>City of Findlay</i>
18	<i>Whirlpool Corp Parking Lot CR 220 & TR 215</i>	<i>Fulltime, 24/7 (To be added by 2013)</i>	<i>Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans</i>	<i>Allen Township</i>
19	<i>Riverdale School State Route 37</i>	<i>Fulltime, 24/7 (To be added by 2013)</i>	<i>Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans</i>	<i>Delaware Township</i>
20	<i>Village of Mount Cory Grain Elevator SR 235 & TR 36</i>	<i>Fulltime, 24/7 (To be added by 2013)</i>	<i>Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans</i>	<i>Village of Mount Cory / Union Township</i>
21	<i>Village of Van Buren Ash Street & Wood Street</i>	<i>Fulltime, 24/7 (To be added by 2013)</i>	<i>Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans</i>	<i>Village of Van Buren / Allen Township</i>

2012 Full-Time and Part-Time Recycling Units

Unit	Location	Schedule/ Availability	Collected Materials	Representing
PART-TIME RECYCLING UNITS				
1	First Presbyterian Church 2330 S. Main Street Findlay, Ohio	3 rd Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
2	Trinity Lutheran Church 935 W Bigelow Av Findlay, Ohio	Last Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	City of Findlay
3	Good Hope Lutheran Church Arlington, OH	3 rd Saturday of the month	Corrugated Cardboard, Glass, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Arlington / Madison Township
4	Van Buren Lutheran Church	2 nd Saturday of the month <i>(To be phased out with implementation of full time unit by 2013)</i>	Corrugated Cardboard, Glass, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Van Buren
5	Vanlue High School 301 S East Street Vanlue, Ohio	1 st Weekend of the month	Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans	Village of Vanlue / Amanda Township
6	<i>Portage Township House 8037 State Route 613</i>	<i>1st Weekend of the month (To be added by 2013)</i>	<i>Corrugated Cardboard, Aluminum, Plastics, Newspapers, Magazines, Steel Cans</i>	<i>Portage Township</i>



APPENDIX H

Program Analysis

**HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT
SOLID WASTE MANAGEMENT PLAN**

PROGRAM NEEDS ANALYSIS

RANKINGS:

Goal Criteria:
1 Doesn't meet Goals
2 Somewhat meets Goals
3 Meets Goals

Participation Criteria:
1 Low Participation
2 Good Participation
3 Excellent Participation

Cost Criteria:
1 High
2 Medium
3 Low

	Spring Clean Up Day	Tire Collection Days / Landfill Collection	Don't Bag It / Backyard Composting	Christmas Tree Recycling	HHW Collection Day	Litter Landing HHW & Paint Collection	Electronics Collection Day	Litter Landing E Collection	Adopt-a-Road Program	Litter Crew	Litter Landing	Permanent Recycling Units	Mobile Recycling Units	Landfill Appliance Collection	Paper Shredding Day	Public Education & Awareness	List of Existing Recyclers / Brokers	Com, Gov, Org Recycling	Industrial Recycling
GOAL CRITERIA																			
Ohio EPA Goals																			
Does this Program meet Goal 1?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO
Does this Program meet Goal 2?	NO	YES	NO	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
Does this Program meet Goal 3?	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO
Does this Program meet Goal 4?	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES
Does this Program meet Goal 5?	NO	YES	NO	NO	YES	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
District Goals																			
Clean roadside litter	YES	NO	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO
Permanent recycling drop-offs	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO
GOAL RANKING	1	3	2	2	3	3	3	3	1	2	3	3	3	2	2	3	2	2	2
PARTICIPATION CRITERIA																			
District population	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677	71,677
Participating population	1,500	1,000	n/a	1,000	1,000	1,000	530	1,000	n/a	n/a	71,677	68,279	48,117	500	n/a	71,677	n/a	10,000	12,243
% Participation	2%	1%	n/a	1%	1%	1%	1%	1%	n/a	n/a	100%	95%	67%	1%	n/a	100%	n/a	14%	17%
Tonnage Recycled?	n/a	45	n/a	8	10	6	50	13	n/a	n/a	3,710	n/a	n/a	10	10	n/a	9,627	13,839	73,011
Waste Reduction Rate	n/a	0.05%	n/a	0.01%	0.01%	0.01%	0.05%	0.01%	n/a	n/a	3.79%	n/a	n/a	0.01%	0.01%	n/a	9.83%	14.13%	86.67%
PARTICIPATION RANKING	2	2	1	2	2	2	2	2	1	1	3	3	3	2	1	3	1	3	3
COSTS CRITERIA																			
Total cost to implement program (2010)	\$4,912	\$14,598	\$300	\$2,390	\$16,368	\$22,434	\$5,856	\$6,000	\$1,161	\$4,056	\$330,194	\$10,000	\$10,000	\$0	\$2,500	\$5,159	\$300	\$300	\$300
Cost per participating person	\$3.27	\$14.60	n/a	\$2.39	\$16.37	\$22.43	\$11.05	\$6.00	\$1.16	\$4.06	\$4.61	\$0.15	\$0.21	\$0.00	n/a	\$0.07	n/a	\$0.03	\$0.02
Cost per tonnage of recyclable	n/a	\$323.49	n/a	\$297.91	\$1,632.19	\$3,728.47	\$116.79	\$460.24	n/a	n/a	\$88.99	n/a	n/a	\$0.00	\$249.30	n/a	\$0.03	\$0.02	\$0.00
Cost per pound of recyclable	n/a	0.16	n/a	\$0.15	\$0.82	\$1.86	\$0.06	\$0.23	n/a	n/a	\$0.04	n/a	n/a	\$0.00	\$0.12	n/a	\$0.00	\$0.00	\$0.00
Future cost to implement program (2013)	\$5,100	\$15,300	\$306	\$1,530	\$20,400	\$30,600	\$6,120	\$6,120	\$1,326	\$4,488	\$408,790	\$10,200	\$10,200	\$0	\$2,550	\$5,916	\$306	\$306	\$306
COST RANKING	3	2	3	3	2	2	3	3	3	3	1	2	2	3	3	3	3	3	3
SUMMATION	6	7	6	7	7	7	8	8	5	6	7	8	8	7	6	9	6	8	8



APPENDIX I

District Resolutions

RESOLUTION

April 22, 1999
Resolution No. 178 -99

RE: DESIGNATION OF HANCOCK COUNTY SANITARY LANDFILL PURSUANT TO O.R.C. §343.013

The Board of Commissioners of Hancock County, Ohio (the "Board"), in their capacity as the Board of Directors of the Hancock County Solid Waste Management District (the "District"), met in regular session in the office of said Board on the 22nd day of April, 1999 with the following members present: Mr. Stephen F. Oman, Mr. David W. Spahr, and Ms. Virginia R. Clymer.

Virginia R. Clymer moved the adoption of the following RESOLUTION:

WHEREAS, Hancock County owns and operates the Hancock County Sanitary Landfill (the "Landfill") in order to provide for the safe and sanitary management of all solid waste generated within the District; and

WHEREAS, the District's 15-year solid waste management plan (the "Plan"), which was approved by the Director of Ohio EPA, is based upon the continued availability of the Landfill as the primary disposal facility for the District, and the Plan authorizes the Board to establish facility designations pursuant to Chapter 343 of the Ohio Revised Code; and

WHEREAS, Hancock County will incur substantial expenses for improvements relating to the vertical and horizontal expansion of the Landfill, and for equipment that is required to operate the Landfill; and

WHEREAS, on April 6, 1999, the Board approved the issuance of \$ 362,182.00 of financing pursuant to Chapter 343 of the Ohio Revised Code for use in improving and operating the Landfill; and

WHEREAS, the Board finds that in order to assure the repayment of the debt incurred to improve and operate the Landfill, and to provide for the availability and utilization of the Landfill for the disposal of solid waste generated within the District in accordance with the District's approved solid waste management plan, the Landfill should be designated by the Board, pursuant to Section 343.013 of the Ohio Revised Code, as the solid waste facility where solid waste generated within the District shall be delivered for disposal unless the solid waste is delivered to a facility located outside the State of Ohio.

NOW THEREFORE, BE IT RESOLVED by the Board of Commissioners of Hancock County, Ohio, that the foregoing recitals be incorporated herein, and that:

Section 1. The Board, pursuant to Section 343.013 of the Ohio Revised Code, designates the Hancock County Sanitary Landfill, which is located at 10400 Allen Township Road 107,

Findlay, Ohio, as the only solid waste facility located within the State of Ohio where solid waste that is generated within the District's territorial jurisdiction shall be taken for transfer or disposal; provided, however, that nothing in this section shall prohibit any person from taking solid waste that is generated within the District's territorial jurisdiction to any solid waste facility that is located outside the State of Ohio.

Section 2. This Resolution shall go into effect immediately.

Section 3. The Board determines that this Resolution was adopted at an open meeting conducted in accordance with Ohio's Sunshine Law, Section 121.22 of the Ohio Revised Code.

Spahr seconded the motion and the roll being called upon its adoption, the vote resulted as follows: Mr. Oman, NO; Mr. Spahr, yes; and Ms. Clymer yes.

Hancock County Board of Commissioners

Virginia R Clymer
Virginia R. Clymer, Chairman

David W Spahr
David W. Spahr, Vice-Chairman

Stephen F Oman
Stephen F. Oman, Commissioner

ATTEST:

Cheryl Barnes
Cheryl Barnes, Clerk
Board of County Commissioners

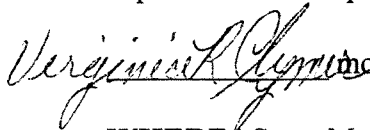
Date: April 22, 1999
Auditor, Auditor-S. Filiater
Sanitary Landfill File ✓

RESOLUTION

April 22, 1999
Resolution No. 179 -99

RE: ADOPTION OF LOCAL RULES OF THE HANCOCK COUNTY SOLID WASTE MANAGEMENT DISTRICT

The Board of Commissioners of Hancock County, Ohio (the "Board"), in their capacity as the Board of Directors of the Hancock County Solid Waste Management District (the "District"), met in regular session in the office of said Board on the 22nd day of April, 1999 with the following members present: Mr. Stephen F. Oman, Mr. David W. Spahr, and Ms. Virginia R. Clymer.

 moved the adoption of the following RESOLUTION:

WHEREAS, on March 7, 1989, the Board established the Hancock County Solid Waste Management District pursuant to Chapter 343 of the Ohio Revised Code; and

WHEREAS, the District's 15-year solid waste management plan (the "Plan"), which was approved by the Director of Ohio EPA, authorizes the Board to adopt local rules in pursuant to Section 343.01(G)(1) through (G)(4) of the Ohio Revised Code; and

WHEREAS, the Board finds that it is necessary and appropriate to adopt the local rules set forth below in order to provide for the safe and sanitary management of solid waste generated within the District, and to accomplish the Board's objectives relating to the designation of the Hancock County Sanitary Landfill.

NOW THEREFORE, BE IT RESOLVED by the Board of Commissioners of Hancock County, Ohio, that the foregoing recitals are incorporated herein, and that:

Section 1. Pursuant to Section 343.01(G) of the Ohio Revised Code and the authority to adopt rules that is provided in the District's solid waste management plan, the Board adopts the following local rules of the Hancock County Solid Waste Management District:

RULE 1: DEFINITIONS

"Board" means the Board of Commissioners of Hancock County, acting in their capacity as the Board of Directors of the Hancock County Solid Waste Management District.

"District" means the Hancock County Solid Waste Management District.

"Person" means each individual, public, or private corporation, partnership, and each other form of entity, including a political subdivision or agency thereof.

"Plan" means the District's amended solid waste management plan.

“Landfill” means the Hancock County Sanitary Landfill, located at 10400 Allen Township Road 107, Findlay, Ohio.

“Solid Waste” shall have the same meaning as set forth in Chapter 3734 of the Ohio Revised Code.

RULE 2: REQUIREMENT FOR ALL SOLID WASTE TO BE DELIVERED TO THE HANCOCK COUNTY SANITARY LANDFILL

No Person shall deliver, or cause the delivery of, any Solid Waste generated within the District to any solid waste facility other than the Landfill, or a solid waste facility located outside the State of Ohio, unless a waiver has been granted by the Board pursuant to Section 343.01(I)(2) of the Ohio Revised Code. For the purpose of this rule, Solid Waste shall have the same meaning as set forth in Chapter 3734 of the Ohio Revised Code, but shall not include asbestos, yard waste, hazardous waste, or any other material which the Hancock County Engineer determines to be unacceptable for disposal at the Landfill.

RULE 3: REQUIREMENT FOR SUBMISSION AND APPROVAL OF PLANS FOR THE CONSTRUCTION OF SOLID WASTE FACILITIES

No Person shall commence the construction, enlargement or modification of any Solid Waste transfer, disposal, recycling or resource recovery facility until general plans and specifications for the proposed construction, enlargement or modification have been reviewed and approved by the Board as complying with the Plan. General plans and specifications submitted to the Board for review shall include all information necessary for the Board to evaluate whether the proposed construction, enlargement or modification complies with each of the criteria listed below. For the purpose of rule, “modification” includes a physical change or change in the method of operation of a solid waste facility, or the utilization of a legitimate recycling facility as a solid waste transfer facility. The Board may obtain the assistance of the Hancock County Engineer and other technical consultants for purposes of performing the review required by this rule. The Board shall approve the general plans and specifications if, after conducting the review, the Board determines that the proposed construction, enlargement or modification:

- a. Is consistent with the goals, objectives, projections and strategies contained in the Plan; and
- b. Will not adversely affect financing for the implementation of the Plan; and

-
- c. Will not adversely affect achievement of the Board's specific objectives for designating the Landfill, including, but not limited to, promoting the maximum feasible utilization of the Landfill for the purpose of paying outstanding debt obligations and other expenses of the Landfill; and
 - d. Will be installed, operated and maintained to be harmonious and appropriate in appearance with the existing or intended character of the area; and
 - e. Will be served adequately by essential public facilities and services; and
 - f. Will not create excessive additional requirements at public cost for public facilities or services, and will not be detrimental to the economic welfare of the community; and
 - g. Will not involve the excessive production of traffic, noise, smoke, fumes, or odors; and
 - h. Will have vehicular approaches to the property that are designed not to create an interference with traffic; and
 - i. Will not result in the destruction, loss or damage of a natural, scenic, or historic feature of major importance.

To the extent that any of the criteria identified in Rule 3(a) through (i), above, establish a design standard that is addressed by rules of the Ohio Environmental Protection Agency for the issuance of a solid waste facility construction permit, the Board shall exclude those criteria from the Board's review and determination pursuant to this Rule.

Section 2. The rules set forth in Section 1, above, shall become effective on April 30, 1999.

Section 3. The Clerk shall cause the rules set forth in Section 1, above, to be published once in the Findlay Courier, a newspaper of general circulation in Hancock County, Ohio, on or before April 30, 1999.

Section 4. The Board determines that this Resolution was adopted at an open meeting conducted in accordance with Ohio's Sunshine Law, Section 121.22 of the Ohio Revised Code.

Spahr seconded the motion and the roll being called upon its adoption, the vote resulted as follows: Mr. Oman, NO ; Mr. Spahr, Yes ; and Ms. Clymer Yes .

Hancock County Board of Commissioners

Virginia R. Clymer
Virginia R. Clymer, Chairman

David W. Spahr
David W. Spahr, Vice-Chairman

Stephen F. Oman
Stephen F. Oman, Commissioner

ATTEST:

Cheryl Barnes
Cheryl Barnes, Clerk
Board of County Commissioners

Date: April 22, 1999

Auditor
Auditor - S. Filiater
Sanitary Landfill File ✓

RESOLUTION

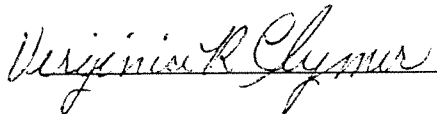
April 29, 1999

Resolution No. 186 -99

RE: INTENT TO DESIGNATE THE HANCOCK COUNTY SANITARY LANDFILL
O.R.C. §343.014

The Board of County Commissioners, Hancock County, Ohio (the "Board"), in their capacity as the Board of Directors of the Hancock County Solid Waste Management District (the "District"), met in regular session in the office of said Board on the 29th day of April, 1999 with the following commissioners present:

Virginia Clymer, David Spahr, and _____.

 moved for the adoption of the following resolution:

WHEREAS, Hancock County owns and operates the Hancock County Sanitary Landfill ("Landfill") in order to provide for the safe and sanitary management of all solid waste generated within the district; and

WHEREAS, the District's 15-year solid waste management plan (the "plan"), which was approved by the Director of Ohio EPA, is based upon the continued availability of the landfill as the primary disposal facility for the District, and the Plan authorizes the Board to establish facility designations pursuant to Chapter 343 of the Ohio Revised Code; and

WHEREAS, Hancock County will incur substantial expenses for improvements relating to the vertical and horizontal expansion of the Landfill, and for equipment that is required to operate the Landfill, and the Board has authorized the issuance of public debt to purchase such equipment; and

WHEREAS, on April 22, 1999, the Board adopted Resolution No. 178-99, which designates the Landfill pursuant to 343.013 of the Ohio Revised Code as the only solid waste facility that is authorized to receive solid waste generated within the District unless such solid waste is delivered to a solid waste facility located outside the State of Ohio; and

WHEREAS, the Board's designation of the Landfill on April 22, 1999, will terminate with the retirement of the public indebtedness incurred by the Board to purchase equipment for the Landfill, and the Board has determined that it will be necessary to continue the Landfill's designation beyond the time that such public indebtedness is retired; and

WHEREAS, the Board finds that in order to provide for the long-term availability and utilization of the Landfill for the disposal of solid waste generated within the District in accordance with the District's approved solid waste management plan, the Landfill should be designated by the Board pursuant to Section 343.014 of the Ohio Revised Code, as the solid waste

facility where solid waste generated within the District shall be delivered for disposal unless the solid waste is delivered to a facility located outside the State of Ohio.

NOW THEREFORE BE IT RESOLVED by the Board of Commissioners of Hancock Count, Ohio, that the foregoing recitals be incorporated herein, and that:

- Section 1.** The Board intends to designates the Hancock County Sanitary Landfill, which is located at 10400 Allen Township Road 107, Findlay, Ohio, as the only solid waste facility located within the State of Ohio where solid waste that is generated within the District's territorial jurisdiction shall be taken for transfer or disposal, unless such solid waste is delivered to a solid waste facility that is located outside of the State of Ohio.
- Section 2.** A public hearing shall be held concerning this Resolution of Intent To Designate on ~~May 27~~^{June 28}, 1999, at 10:00 a.m., at the offices of the Hancock County Commissioners, Hancock County Courthouse, 300 South Main Street, Findlay, Ohio 45840.
- Section 3.** The Clerk shall cause public notice of the adoption of this Resolution of Intent to Designate, and of the date, time and location of the public hearing to consider the proposed designation of the Hancock Sanitary Landfill, to be published in the Findlay Courier, a newspaper of general circulation within Hancock County, Ohio.
- Section 4.** The Clerk shall cause notice of this Resolution Of Intent To Designate, a description of the type and scope of services subject to the proposed designation, and the date, time and location of the public hearing relating thereto, to be mailed to:
- a. fifty industrial, commercial, and institutional generators of solid wastes within the district that generate the largest quantities of solid wastes, as determined by the Board, and to their local trade associations;
 - b. the legislative authority of each municipal corporation and township within the District; and
 - c. the Director of Ohio EPA.
- Section 5.** The Board determines that this Resolution was adopted at an open meeting

conducted in accordance with Ohio's Sunshine Law, Section 121.22 of the Ohio Revised Code.

Spahr seconded the motion and the roll being called upon its adoption, the vote resulted as follows:

Hancock County Board of Commissioners

Virginia R. Clymer Yes
Virginia R. Clymer, Chairman

David W. Spahr Yes
David W. Spahr, Vice Chairman

ABSENT
Stephen F. Oman, Commissioner

ATTEST:

Cheryl Barnes
Cheryl Barnes, Clerk
Board of Hancock County Commissioners

Date: April 29, 1999

Auditor
Auditor - S. Filiater
K.C. Collette
Sanitary Landfill
Sanitary Landfill File ✓