



LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT



2016 – 2025
RATIFIED SOLID WASTE MANAGEMENT
PLAN UPDATE

September 8, 2015

Prepared by:



LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

2016–2025 RATIFIED PLAN UPDATE

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I. District Overview

The Lorain County Solid Waste Management District (District) was created by a resolution of the Lorain County Commissioners on March 21, 1989. It has been twenty-five years since the creation of the District. Since those early days, the District has grown in population, programming, services for recycling and achievement of goals established by the State of Ohio.

The District is a leader in solid waste management. The District has taken the role of managing solid waste, recycling and waste reduction as an important part of the local economy and a potential driver for new opportunities and programming.

The District's waste management infrastructure is second to none and provides residents with waste disposal, recycling and special waste services that lead the state. For example:

- The Republic Lorain County Landfill has had a long history of operations in the District and provides a valued waste disposal service to the region. Through a number of expansions, the landfill continues to provide the District with an in-district option for managing waste for residents, government, commercial and industrial businesses. Projections show the facility will have capacity for several decades into the future, providing District residents and businesses with an economic option for managing their waste.
- The Lorain County Resource Recovery Facility is owned by Republic Waste which recently redesigned and upgraded its facility. The \$15 million dollar upgrade provides the District with a modern sophisticated recycling facility with updated technology that includes optical sorters, conveyors, screens, magnets and balers to recover recyclable materials from residents, institutions, commercial and industrial businesses. The Resource Recovery Facility is another important component of the integrated waste management system providing residents, businesses and industries with an option to divert waste from landfill disposal and return valuable commodities to the marketplace.
- Collection of residential waste and recycling is now automated in most political jurisdictions in the District including townships. Residents have two collection carts: (1) a waste disposal cart, and (2) a cart for recyclables. Residents can choose the size of the waste cart that is most appropriate for their family size and the amount of waste they generate. The smaller the cart, the more financial savings. The District provides incentives for communities to make the switch to automated systems or volume-based collection programs. This change has significantly increased recycling. At one time, the residential/commercial recycling rate was 8-10 percent, including yard waste. Now the District has exceeded the 25% recycling goal for the residential/commercial sector.

- The Lorain County, Ohio Solid Waste Management District owns and operates the Special Waste Collection Center (Collection Center). The Collection Center is designed to collect and process special waste materials not typically collected at curbside or drop-off recycling programs. The Collection Center diverted for reuse and recycling more than 2,600 tons from landfills since June 2010. The Collection Center processed 28,632 vehicles and 34,558 households the first two years of operation. Approximately 92% of the materials collected are diverted for recycling or reuse, and include:



 <p>HHW • 433 tons</p>	 <p>Scrap tires • 1,231 tons</p>	 <p>Electronics • 828 tons</p>
 <p>Bulbs & ballasts • 164 tons</p>	 <p>Shred days • 23 tons</p>	 <p>Books • 45 tons</p>
 <p>Batteries • 7.5 tons</p>	 <p>Cardboard • 5 tons</p>	 <p>Metals • 6 tons</p>
 <p>Christmas trees • 3 tons</p>	 <p>Building materials • 1.7 tons</p>	

The District's 300,000 residents may use the facility year round. The Collection Center received the Solid Waste Association of North America (SWANA) Excellence Award in 2013.

- The District provided technical assistance to eleven political subdivisions to establish a consortium that worked together to develop a bid for waste collection services. Working together provided the consortium with a higher volume of material, making their waste and recycling more attractive financially to waste haulers. The communities bid their waste and recycling for a five year contract. The results included significant savings for each resident in the consortium, which was calculated cumulatively at over \$5 million dollars for the life of the contract. Other communities have benefited from the consortium's successful bid process as well.

- Recently, the District provided technical assistance on waste reduction and recycling to a large regional hospital and the City of Oberlin. Plans were put together to assist each entity to analyze ways to reduce waste, recycle more and achieve sustainable goals more efficiently.

- The “C.A.B.,” otherwise known as the Clean and Beautiful Trailer, is available FREE to any volunteer organization in Lorain County. The District received a grant from Keep America Beautiful and the Lowe’s Charitable & Educational Foundation last year.



- The District cracks down on illegal dumping through the establishment of the Environmental Crimes Unit implemented by the Lorain County Sheriff's Office. The unit has posted high resolution cameras at local dumping hot spots. The Sheriff has successfully initiated cases for environmental open dumping crimes in the District with successful prosecutions.

All of these programs have led to successful implementation of the Lorain County Solid Waste Management goals of waste diversion, recycling and a clean community through the reduction of litter and open dumping. With this *Plan Update*, the District is contemplating several other services and programs to further push the waste diversion goals and sustainable programming. Recently, the District issued a Request for Proposals to develop an organics processing facility for food waste material. The Oberlin Zero Waste Plan includes a food waste diversion pilot study for residents which may be contingent on the location and ability to process food waste materials from residents.

New technologies are being developed to reduce and eliminate the creation of solid waste. Many of these technologies are using waste as a raw material to create energy and new products. This *Plan Update* will look at these opportunities for the District to continue its mission to reduce, reuse and recycle and achieve statewide goals.

INTRODUCTION (EPA Format)

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

1. ***Under current approved (or ordered to be implemented) plan:***

Date of Ohio EPA approval
or order to implement:

April 18, 2010

Counties within district: Lorain
Years in planning period: 10

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

Counties within district: Lorain
Years in planning period: 10
Year 1 of the planning period: 2016

B. Reason for Plan Submittal

Mandatory three-year plan update.

C. Process to Determine Material Change in Circumstances and Amend the Plan

A material change in circumstances or deviation from the approved *Plan Update* has been defined by the District to include a reduction in available capacity, a reduction in funding, or a delay in program implementation that would significantly affect the chances of achieving the District goals. The District staff will monitor circumstances affecting plan implementation as specified herein and report such circumstances to the Board¹ where warranted.

The following procedures shall be used by the District to monitor circumstances affecting plan implementation and by the Board to make a determination of whether a material change in circumstances has occurred requiring an amendment to the plan.

1. Assurance of Waste Disposal Capacity

(a) Reduction in Available Capacity

A reduction in available capacity shall include closure and/or a 20% or greater reduction in the ability to process or dispose of District waste at any solid waste management facility designated or identified in the Plan that receives 20% or more of the District's waste stream. This does not include normal down time to fix or install equipment. This would include solid waste management facilities that do not receive approval for expansion due to site environmental problems, facilities that

¹ "Board" means Board of Directors, and for a single county solid waste management district, consists of the Board of County Commissioners.

experience a reduction in capacity or facilities for which a permit or license was revoked.

District staff will regularly monitor solid waste disposal capacity and report any significant changes in available capacity to the District Director. If the District Director determines that a reduction in available capacity meeting the above criteria has occurred, the District Director will determine if the other identified in-district, out-of-district or out-of-state solid waste management facilities will be able to provide sufficient disposal capacity and access to disposal capacity for District-generated waste. If, in the aggregate, the landfills or other solid waste management facilities identified in Section VI are unable to provide the District with sufficient disposal capacity or access to disposal capacity and no other disposal alternatives are available through the existing Plan's authority and options, the District Director shall report such findings to the Board of County Commissioners (Board) for the Board's determination of whether a Material Change in Circumstances has occurred.

A material change in circumstances has not occurred if the District is able to secure arrangements to manage the waste by any other properly licensed and permitted solid waste management facility.

(b) Increase in Waste Generation

Future capacity needs of the District as outlined in the Plan are based on waste generation estimates. A significant increase in solid waste generation within the District may affect capacity requirements and result in diminished capacity for handling or disposing of solid waste. A material change in circumstances may have occurred if sustained waste generation increases have a significant adverse impact on capacity for handling or disposing of solid waste generated within the District at facilities identified in the Plan. A material change in circumstances has not occurred, however, if the District can secure arrangements to manage the increased waste volume at any other properly licensed and permitted solid waste management facility.

District staff, by the second quarter of each year during the term of the Plan, will review waste generation figures from the previous calendar year and report to the District Director. If the District Director determines that a significant sustained

increase in waste generation has occurred, and there are no other facilities with adequate capacity available to manage the waste, a report of such findings shall be presented to the Board.

The Board will review the report and the availability of capacity for the District's solid waste and determine whether sufficient capacity is available to the District or whether a material change in circumstances has occurred.

A material change in circumstances has not occurred if the District is able to secure arrangements to manage the waste by any other properly licensed and permitted solid waste management facility within Ohio or outside the state.

2. Compliance with Applicable Waste Reduction or Access Goals

(a) Delay in Program Implementation or Discontinuance of Essential Waste Reduction or Recycling Activities

The following are the seven 1995 State Plan Goals:

Goal #1 Access to Alternate Waste Management Opportunities

The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses. At a minimum, the District must provide access to recycling opportunities to 90% of its residential population.

Goal #2 Waste Reduction and Recycling Rates

The District shall reduce and/or recycle at least 25% of the solid waste generated in the residential/commercial sector and at least 50% of the solid waste generated in the industrial sector.

Goal #3 Source Reduction

Provide informational and technical assistance on source reduction.

Goal #4 Technical and Informational Assistance

Provide informational and technical assistance on recycling, reuse and composting opportunities.

Goal #5 Restricted Wastes and Household Hazardous Waste

Develop strategies for managing scrap tires, yard waste, lead acid batteries and household hazardous waste (HHW).

Goal #6 Annual Reporting of Plan Implementation

Districts are required to submit an annual report to Ohio EPA.

Goal #7 Market Development Strategy (Optional)

The District plans to demonstrate compliance with Goal #1 of the 1995 State Plan. This goal requires the District to demonstrate that at least “90% of the population will have access to recycling and waste reduction opportunities which assures the availability of reduction, recycling and other waste reduction methods that are alternatives to landfill for residential/commercial waste.”

To determine if Goal #1 is being achieved, the District staff will annually review the facilities presented in Table VII-2 by the second quarter of each year of the planning period to determine if the facilities and programs are still in operation, the type of operation (i.e., non-subscription or subscription curbside recycling programs and/or full-service or part-time drop-offs,) and the type of materials accepted at each facility or program. The District will estimate the population in Lorain County using information from the Ohio Department of Development or the County Planning Agency for the above referenced evaluation. The District staff will calculate the percentage of population that has access to each facility and program using the methodology prescribed in the 1995 State Plan.

The District staff shall report to the District Director the results of the facility and recycling program evaluation. If the District Director believes a significant delay of more than one year in facility or program implementation or the discontinuance of essential facilities or programs result in the inability of the District to achieve Goal #1, a Board meeting to discuss this

issue will be held within 30 days. The Board will review the circumstances and determine whether alternative programs can be implemented to achieve either Goal #1 or in the alternative, Goal #2, or whether a material change in circumstances has occurred. If Goal #2 is selected, the District will submit a revised Plan Update for ratification and approval. A material change in circumstances has not occurred, however, where the District is able to implement new programs or modify existing programs to meet the current goal, or utilize the alternate goal available to the District to meet State of Ohio requirements.

3. Financing of Plan Implementation

(a) Decrease in Waste Generation and/or Waste Disposal

Implementation of the District's Plan requires that the District receive adequate annual funding to implement programs. The District staff will monitor District revenues and report adverse changes in revenues to the District Director.

The District Director will prepare a financial report of revenues and expenses for presentation at Policy Committee meetings. A material change in circumstances in the *Plan Update* will occur if there is a reduction in revenues greater than 25 percent on an annual basis that negatively impacts the ability to fund plan activities. The District Director will notify the Board of Directors of any such revenue reductions that negatively impacts the ability to fund plan activities within 30 days of it being identified. The Board of Directors will direct the Policy Committee to convene within 90 days to revise the budget or develop additional funding mechanisms.

If financial conditions exist that prevent the District from implementing programs, the District staff will prepare a report that prioritizes the programs the District will provide based upon the following criteria:

- The program's impact on reducing the waste stream;
- Long-term impacts of the program;
- The program's association with the enforcement of solid waste management laws and regulations;
- The program's impact on Lorain County's health and environment; and
- The availability of non-District entities to provide the program.

This report will be provided to the District Director for review and recommendations regarding modification or elimination of District programs. Based upon this report, if the District Director determines that elimination or modification of District programs will have a substantial impact on the implementation of the District's Plan, a Board meeting will be held to discuss this issue within 30 days. The Board will review the circumstances and determine if a material change in circumstances has occurred. No material change in circumstances has occurred where the Board is able to maintain critical programs at current funding levels through re-allocation of District funds, elimination of non-essential programs or through an increase in District fees or contracts as permitted by the Ohio Revised Code and the Plan. Critical programs are those deemed necessary by the Board to enable the District to achieve and maintain the applicable goals for waste reduction or access to recycling opportunities.

4. Procedures Where Material Change in Circumstances has Occurred

If, at any time, the Board determines that a material change in circumstances has occurred and a revision to the Plan is necessary, the Board will request the Policy Committee to prepare a Draft Amended Plan to the Board within 90 days of the Board request. The Board will review the Draft Amended Plan, and approve or return the Draft Amended Plan for further revision within 60 days of receipt. The Policy Committee shall incorporate necessary revisions, and submit the final Draft Amended Plan within 60 days to the Board.

The Board will notify the Ohio EPA in writing within 15 working days after the Board has determined that a material change in circumstances has occurred. Nothing contained in this section shall be construed as limiting the authority of the Policy Committee or the Board to otherwise amend this Plan.

D. District Formation and Certification Statement

All public notices in local newspapers publicizing hearings and comments on the *Plan Update* are included in Appendix B. A certification statement signed by members of the Policy Committee asserting that the contents of the *Plan Update* are true and accurate is included in Appendix C. The certification statement is signed by a majority of the Policy Committee members for both the draft amended *Plan Update* and the ratified draft amended *Plan Update*. Appendix C also includes resolutions by the Policy Committee adopting the *Plan Update* prior to ratification and certifying that the *Plan Update* has been properly ratified. A list of all political jurisdictions

in the District which voted on the *Plan Update* ratification, their populations, and the percentage of the population represented by the political jurisdictions which ratified the *Plan Update* is included in Appendix C.

E. Solid Waste Management Policy Committee Members

Policy Committee Member	Representing
Ted Kalo	the Board of County Commissioners
Mayor Chase Ritenauer	the Largest City in the County (Lorain)
David Urig	Lorain County Townships
David Covell	the County Health Department
Ken Schneider	Industrial/Commercial Businesses
Brian Parsons (Chairperson)	the General Interests of Citizens
Dr. David Hintz	the Public

F. Board of Directors

Board of Directors	Role
Ted Kalo	County Commissioner, President
Lori Kokoski	County Commissioner
Matthew Lundy	County Commissioner

G. District Address and Phone Number

Mr. Keith Bailey, District Director
 Lorain County Solid Waste Management District
 226 Middle Avenue
 Elyria, Ohio 44035
 (440) 329-5440

H. Technical Advisory Council and Other Subcommittees

The District did not form a Technical Advisory Council for this *Plan Update*.

II. Executive Summary

The Lorain County Solid Waste Management District (District) is required by Section 3734.54 of the Ohio Revised Code (ORC) to periodically update its solid waste management plan (*Plan Update*). This *Plan Update* will cover a ten year planning period beginning in 2016 and ending in 2025. This *Plan Update* includes a description of District programs and projections for solid waste generation, recycling and disposal for ten years. It also identifies the District's strategies for managing the District's facilities and programs and provides an assessment on achieving statewide recycling and waste reduction goals. This *Plan Update* follows Ohio EPA's Format version 3.0. The Format requires specific narrative information and data tables. There are nine major sections to the Plan Format.

Section I

- Includes basic information about the District and an important section on determining when material changes would require an amendment to the *Plan Update*.

Section II

- An Executive Summary which includes brief narrative descriptions of each section in the *Plan Update*.

Section III

- Includes an inventory of facilities, activities, and haulers used by the District in the reference year (2013).

Section IV

- Includes the reference year statistics for the *Plan Update* including population data, waste generation and waste reduction estimates for the residential/commercial sector and the industrial sector.

Section V

- Includes projections of population, waste generation and waste reduction for each year of the planning period.

Section VI

- Includes the District's management of facilities and programs to be used by the District throughout the planning period.

Section VII

- Presents how the District meets the state waste reduction and recycling goals.

Section VIII

- Includes a presentation of the financial resources of the District necessary to implement this Plan.

Section IX

- District rules proposed, approved and authorized for adoption are presented by the District

This Executive Summary provides an overview of each section of the *Plan Update*.

A. Section I. Introduction

On March 21, 1989, the Board of Commissioners of Lorain County formed the Lorain County Solid Waste Management District (Appendix A). The District includes all incorporated and unincorporated territory in Lorain County and a small portion of neighboring Erie County (City of Vermillion).

The Board of County Commissioners of Lorain County governs the District in their capacity as the Board of Commissioners of the Lorain County Solid Waste Management District (hereinafter referred to as the “Board”).

The current Plan was approved by Ohio EPA on April 18, 2010 and includes a ten year planning period. This *Plan Update* begins with the planning year 2016 and includes a ten year planning period.

Policy Committee Members

The Policy Committee prepares the solid waste management plan, monitors implementation of the Plan and adjusts the District fees as appropriate. The Policy Committee members include:

Policy Committee Member	Representing
Ted Kalo	the Board of County Commissioners
Mayor Chase Ritenauer	the Largest City in the County (Lorain)
David Urig	Lorain County Townships
David Covell	the County Health Department
Ken Schneider	Industrial/Commercial Businesses
Brian Parsons (Chairperson)	the General Interests of Citizens
Dr. David Hintz	the Public

Board of Directors of the Lorain County Solid Waste Management District

The Board is responsible for implementing the solid waste plan developed by the Policy Committee.

Board of Directors	Role
Ted Kalo	County Commissioner, President
Lori Kokoski	County Commissioner
Matthew Lundy	County Commissioner

Process to Determine Material Change in Circumstances and Amend the Plan

Section I of the *Plan Update* outlines the process which will be used by the District to determine when a material change in circumstance has occurred. If a material change in circumstances occurs, a plan amendment is required by Ohio law (ORC Section 3734.56 (D)). The District plan must be updated “...when the board of county commissioners....or board of directors...determines that circumstances materially changed from those addressed in the approved initial or amended plan of the district...”

A material change in circumstances is defined by Ohio EPA as changes in any of the following which would be judged to significantly interfere with District achievement of *Plan Update* goals in the context of statutory requirements:



In accordance with ORC 3734.56(D), the *Plan Update* must be revised if the Board has determined that “circumstances materially changed from those addressed in the approved initial or amended plan of the district.” A material change in circumstances shall be defined as a change that adversely affects the ability of the Board to: (1) assure waste disposal capacity during the planning period; (2) maintain compliance with applicable waste reduction or access goals; or (3) adequately finance implementation of the *Plan Update*. This process is described in detail in Section I of this *Plan Update*.

B. Section III. Inventories

Section III provides an inventory of facilities, programs and activities during the reference year (2013) of the *Plan Update*.

Inventories include the following:

- Landfills
- Transfer Facilities
- Incinerators and Waste-to-Energy Facilities
- Recycling Programs
- Collection Programs
- Composting Facilities and Programs
- Open Dumps and Waste Tire Dumps
- Ash, Slag and Foundry Sand Disposal Sites
- Solid Waste Haulers

C. Section IV. Reference Year Population, Waste Generation and Waste Reduction**1. Reference Year Population**

The 2013 population estimate of 302,827 for Lorain County is a projection from the Ohio Development Services Agency's *2013 Population Estimates by County, City, Village, and Township*. Based upon Ohio Revised Code requirements, the population of the Village of Vermilion was then added to the County total since the majority of residents in this village reside in Lorain County. The resulting total District population is 307,506 for 2013.

2. Waste Generation

Residential and commercial waste generation was calculated to be 289,107 tons in 2013, including 214,536 tons landfilled (see Table III-1) and 74,577 tons recycled, including composting and volume reduction (see Table IV-5). Based on the District population, this is 5.15 pounds per person per day of residential/commercial waste generation.

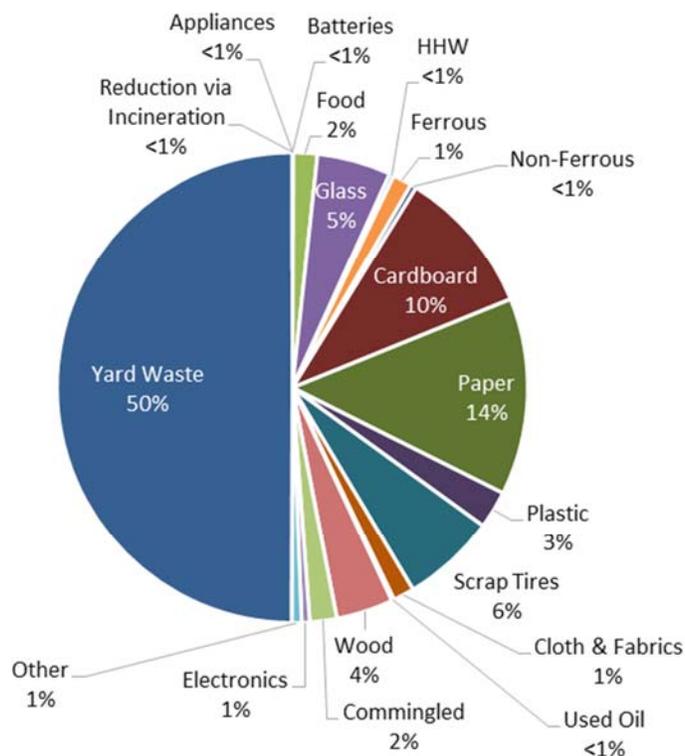
Industrial waste generation in 2013 was 138,446 tons. This includes 47,858 tons landfilled (see Table III-1) and 90,589 tons recycled (see Table IV-6). Based on the District population, this is 2.47 pounds per person per day of industrial waste generation.

3. Reference Year Waste Reduction

Residential/commercial waste reduction that occurred in the District during the reference year is summarized in Table IV-5. The residential/commercial waste reduction includes residential recycling activities such as curbside and drop-off collection; District sponsored special collection activities such as the Household Hazardous Waste Collection and Electronics Collection coordinated through the Lorain Collection Center; commercial recycling completed by commercial entities operating within the District; and composting.

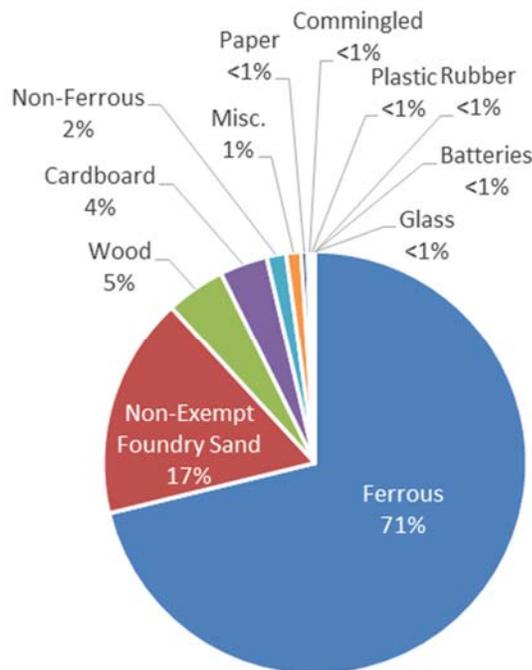
The following graph depicts the residential and commercial waste reduction totals as a percentage for 2013:

2013 Residential/Commercial Waste Reduction



Industrial waste reduction activities that occurred during the reference year are summarized in Table IV-6. The following graph depicts the industrial waste reduction totals as a percentage for 2013.

2013 Industrial Waste Reduction



Section IV also provides specific details for the existing waste reduction/recycling activities for the residential/commercial and industrial sectors.

D. Section V. Planning Period Projections and Strategies

Section V includes a summary of projections of population, waste generation and recycling for the planning period (2016 – 2025). New programs and changes to existing programs are presented in this section.

1. Population Projections

The District anticipates population will continue to grow over the ten-year planning period by 2.9%. The growth rate is based on populations projections provided by the Ohio Development Services Agency. The District is projecting a total population of 319,657 by 2025, which is an increase of 9,061 over the planning period.

2. Waste Generation Projections

Residential/Commercial Sector

The total residential/commercial waste generation estimate for 2013 is 289,107 tons. Residential/commercial waste generation is projected to increase throughout the planning period consistent with

the rate of population increase and projected changes in generation rates. Beginning in 2016, the first year of the planning period, residential/commercial waste is projected to be 297,561 tons. Generation is expected to increase to 324,034 tons by 2025, representing an 8.9% increase during the planning period.

Industrial Sector

Industrial waste generation is projected for industries categorized in Standard Industrial Classification (SIC) codes 20, and 22 through 39. Table V-3 presents the industrial waste generation projections from the reference year through the end of the planning period. Industrial waste generation projections are based on historical data trends from 2008 through 2013, and are greatly affected by the economic recession which began during this time period.

Due to changing characteristics of the manufacturing sector, the District expects that industrial waste generation will experience a modest increase in coming years, but will not return to pre-recession levels. Overall, the District projects industrial waste will decrease from 138,446 tons in the reference year to 136,437 tons in 2025, representing a 1.5 percent decrease.

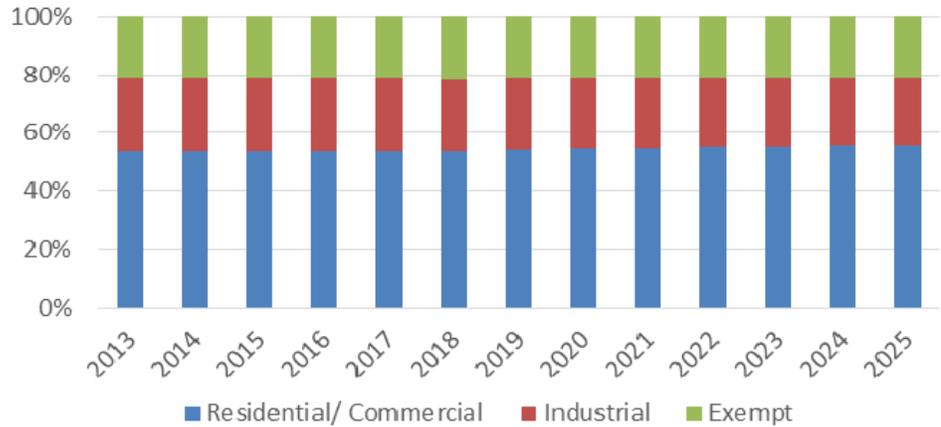
Total Waste Generation

The total waste generation estimate for the 2013 reference year is 540,526 tons. Detailed estimates are as follows:



The following figure depicts the waste generation per sector as a percentage of the total waste generation.

District Total Waste Generation (2013 – 2025)



3. Waste Reduction and Recycling Strategies through the Planning Period

The District must continue to develop recycling and waste reduction strategies to meet the goals established in the *1995 State Plan*.

Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District projects that the residential/commercial waste reduction strategies will increase recycling and waste reduction approximately 25 percent over the course of the planning period. The majority of the increase is expected to be contributed from the following programs:

- Continued improvements and enhancements to the curbside and drop-off recycling programs;
- Incentives designed to promote more composting; and
- Efforts such as the Business Recycling Roundtable which will improve dissemination of educational materials and as well as communication regarding recycling and waste reduction opportunities.

This *Plan Update* continues the existing programs listed in Section IV and includes several new and/or revised programs. Specific changes to existing programs and details of new programs are provided in Section V.

Industrial/Commercial Waste Reduction/Recycling and Education Strategies

The District projects industrial recycling will increase 4.9 percent from 2013 – 2025, which is based upon a 0.4 percent increase per year. This *Plan Update* continues the existing programs listed in Section IV, but includes a number of expanded initiatives for these programs in order to address the challenges identified in Section IV. Specific changes to existing programs and details of the new programs are provided in Section V.

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

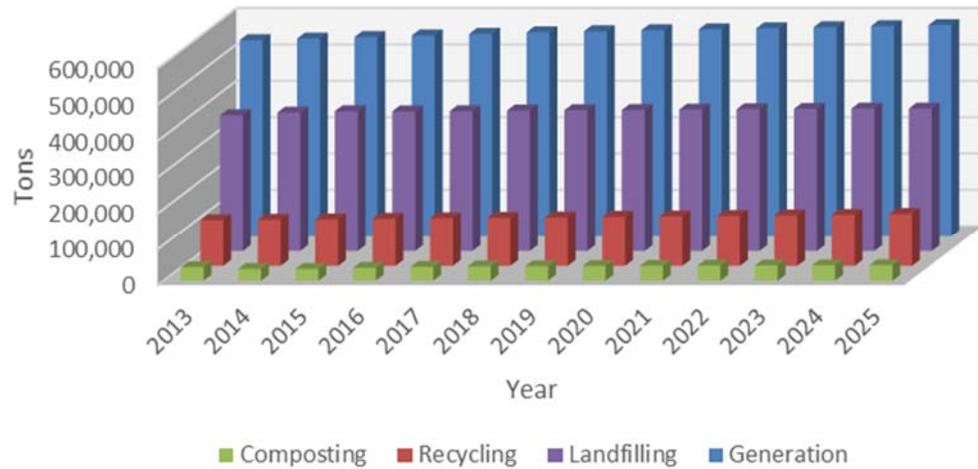
Section VI presents the District's methods for managing solid waste. It includes management methods, a siting strategy, and a demonstration of capacity for the planning period 2016 – 2025.

1. District Methods for Management of Solid Waste

The net tons to be managed by the District in 2013 are calculated to be 530,526 tons. The landfill totals in Table VI-1 are calculated by subtracting recycling, yard waste composted, and waste reduced by incineration from the net tons to be managed. The District projects approximately 553,525 tons of solid waste will need to be managed in 2016 and by the end of the planning period in 2025 the District will need to manage approximately 582,037 tons. The projected increase in tonnage is due to the anticipated increase in residential/commercial waste generation throughout the planning period.

The majority of the District's waste will continue to be managed through landfilling during the planning period. Landfilling accounts for approximately 69 percent of the total waste managed in 2016, and this proportion decreases slightly over the planning period as recycling, waste reduction and composting increase marginally.

Total Generation and Management Methods



2. Demonstration of Access to Capacity

During the 2013 reference year, twelve landfills managed 375,360 tons of solid waste generated by District residents, businesses and industries. One of the landfills was located in the District, ten were located out-of-district, and one was located in Indiana. The landfill located within the District, the Republic Lorain County Landfill, managed approximately 353,000 tons in 2013 or 94 percent of the waste that was landfilled.

Regional Capacity Analysis

The District’s assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District’s waste through December 31, 2025. The twelve landfills presented in the following table have sufficient permitted capacity to manage the 5.8 million cubic yards of solid waste which is projected needing disposal throughout the planning period. All of the landfills, except the Noble Road Landfill, have at least 15 years of available capacity. The Republic Lorain County Landfill is projected to be in operation managing solid waste for at least another 16.7 years (as of December 21, 2013).

Landfills Used by the District in 2013

Facility Names	Location		Remaining Capacity	
	County	Distance from District (miles)	Years	Gross Airspace (YD ³)
Lorain County Landfill	Lorain	--	16.7	19,817,572

Facility Names	Location		Remaining Capacity	
	County	Distance from District (miles)	Years	Gross Airspace (YD ³)
Countywide Landfill	Stark	84	63.1	43,026,695
Pine Grove Regional Facility	Fairfield	160	65.5	20,101,387
American Landfill	Stark	86	65.6	82,266,252
Noble Road Landfill	Richland	41	9.9	9,990,500
Port Clinton Landfill	Ottawa	59	99.4	9,805,360
Evergreen R&D Facility	Wood	85	42.3	9,169,457
Kimble Sanitary Landfill	Tuscarawas	97.4	48.2	40,391,301
Erie County Sanitary Landfill	Erie	31	32.0	5,376,144
Carbon Limestone Landfill	Mahoning	100	58.7	71,358,880
Sunny Farms Landfill	Seneca	82	23.3	32,421,923
South Side Landfill	Marion (IN)	297	DNR	DNR

DNR = did not report

3. Identification and Designation of Facilities

The District has designated the Republic Lorain County Landfill to receive all Lorain County generated solid waste. The District will issue a general waiver to industrial facilities classified in SIC code 20 and 22-39 or North American Industrial Classification System (NAICS) manufacturing codes 31, 32 and 33.

4. Siting Strategy for Facilities

The District's Siting Strategy for Solid Waste Facilities ensures that proposals to construct a new Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility within the District or modify an existing Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility within the District are in compliance with the *Plan Update*. The Board shall not approve the General Plans and Specifications for any proposed Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility or the modification of any existing in-District Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility where the construction and operation of the proposed facility, as determined by the Board, will: (1) have significant adverse impacts upon the Board's ability to finance and implement the *Plan Update*; (2) interfere with the Board's obligation to provide for the maximum feasible utilization of existing in-District

Solid Waste Facilities; (3) materially and adversely affect the quality of life of residents within 500 feet of the proposed facility; or (4) have material adverse impacts upon the local community, including commercial businesses and other public facilities (schools, hospitals, libraries, places of worship, etc.) within 500 feet of the proposed facility and the adequacy of existing infrastructure to serve the proposed facility.

5. Contingencies for Capacity Assurance and District Program Implementation

The District does not anticipate any capacity assurance or program implementation issues during this planning period. The District will implement the contingency plan outlined in Section VI of the *Plan Update* if the Republic Lorain County Landfill is required to close operations for a period of time that would be detrimental to the health and safety of District residents.

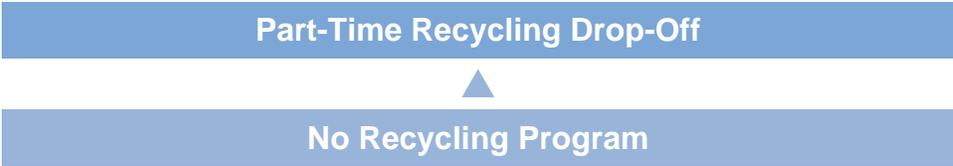
F. Section VII. Measurement of Progress Toward Waste Reduction Goals

1. Compliance with Goal #1

The District will continue to comply with Goal #1: Access to Waste Management Opportunities. The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

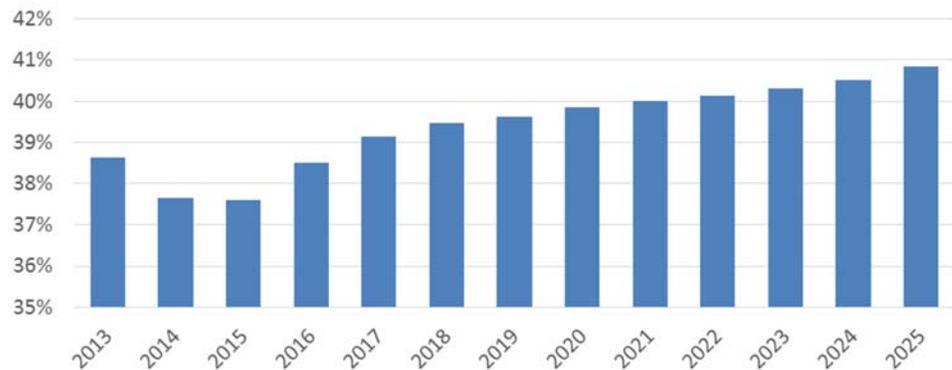
For 2016, the first year of the planning period, the District is projected to exceed a 100% recycling access rate for the residential sector. The District continually works to improve the effectiveness of recycling opportunities. Therefore, the District will support and promote the following recycling access hierarchy for all communities that are operating non-VBS recycling programs:





This section also covers recycling access for commercial businesses and financial incentives to increase recycling in the District. Overall, the District's annual waste reduction rate for the reference year (2013) was 39 percent. The waste reduction rate is expected to increase to 41 percent by the end of the planning period. The following figure shows the expected waste reduction/recycling percentage throughout the planning period.

District Total Waste Reduction/Recycling Percentage (2013 – 2025)



G. Section VIII. Cost of Financing Plan Implementation

1. Funding Mechanisms

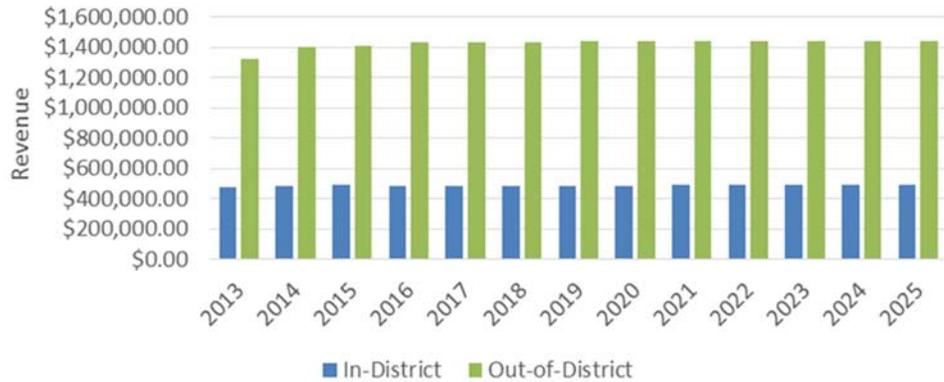
a. District Disposal Fees

The District relies almost exclusively on disposal fee revenues for financing the implementation of the *Plan Update*. The District has a flat \$2.00 per ton disposal fee for in-district, out-of-district, and out-of-state waste. In 2013, the District's Quarterly Fee Reports indicate that \$1,801,730 in revenue was received from disposal fees.

Total in-district and out-of-district tonnage subjected to disposal fees in the District was projected to increase 4.4% from 2013 to 2014. The District anticipates that overall tonnage will increase one percent annually during 2015 and 2016, then 0.1% annually from 2017 to 2025.

The majority (approximately 75%) of disposal fee revenue is collected from tonnage generated out-of-district. The following figure presents the actual and projected disposal fee revenue by origin of the waste.

Disposal Fee Revenue by Waste Origin



b. Generation Fee

The District does not have a generation fee.

c. Contract Fees

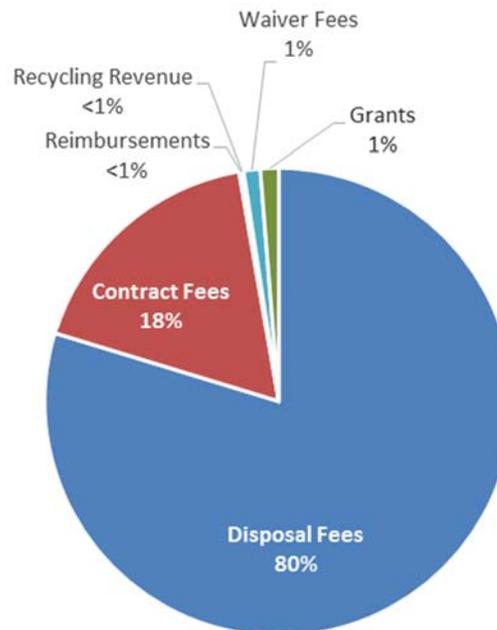
Republic Waste Services entered into a Host Community Agreement with the District since the last plan update. The Agreement, which provides significant revenue to the District, requires Republic to pay Lorain County \$0.60 per ton for each ton of waste disposed at the Lorain County Landfill that is generated outside the District. It also requires Republic to bring all of the waste controlled by Republic in Cuyahoga County to the Lorain County Landfill in New Russia Township.

Contract fee revenue ranges from \$428,439 to \$430,690 throughout the planning period. The Host Community Agreement expires in May 2015. As of April 2015, the District was in the final stages of negotiations with Republic to establish another agreement.

d. Total District Revenues

The District collects a small amount of revenue from State and Federal grants, the sale of recyclables, and reimbursements. However, as illustrated in the following figure, these other revenue sources are minor compared to disposal fees and contract fees.

Percentage of Revenue Generated in 2013 by Type of Funding Mechanism



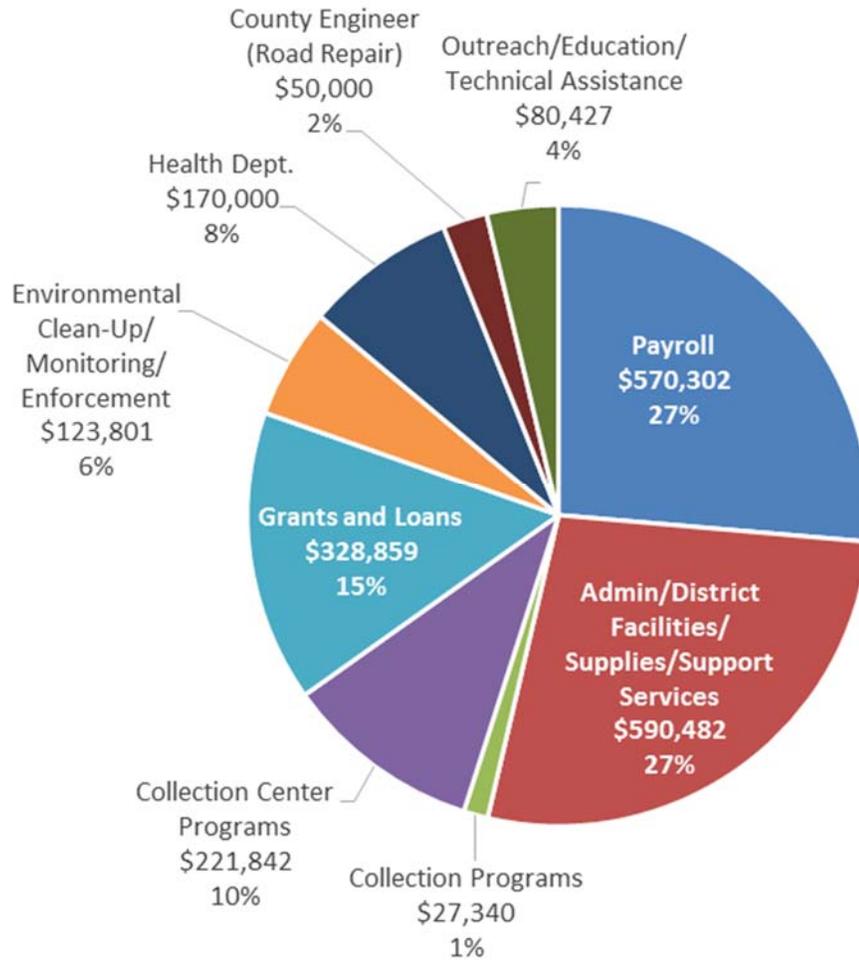
2. Cost of Plan Implementation

Section VIII includes the strategies, facilities, activities and programs that the District will use to implement the *Plan Update*. The following assumptions have been made regarding the estimated costs for the *Plan Update*.

- Salary is projected to increase 1.7% annually;
- Supplies, equipment, capital improvements, and building maintenance are also projected to increase 1.7% annually;
- Consulting and professional services, including legal counsel, are projected to be flat; and
- The majority of District expenditures for programs are projected at no annual increase or at the rate of 1.7 percent annually.

The District Director will allocate these funds with the approval of the County Commissioners. The following charts depict the major expenditures and percentage of the total budget for 2013:

2013 District Expenses



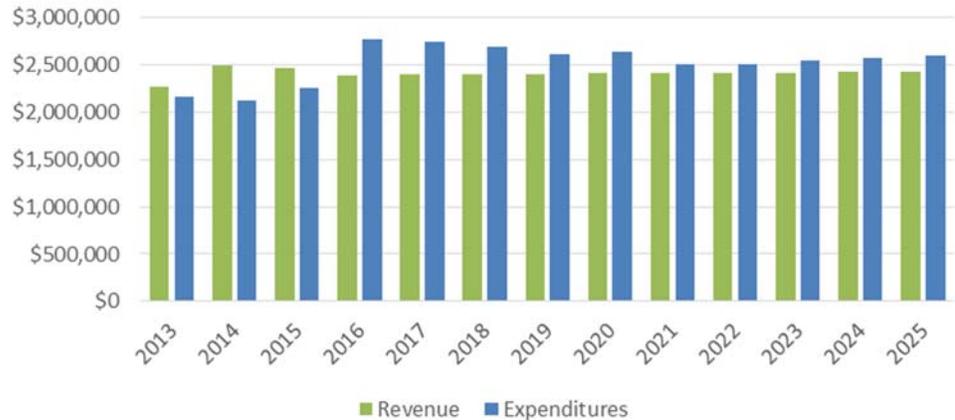
3. Contingent Funding

The Policy Committee and District Board of Directors do not consider funding to be an issue of concern during this planning period. However, the Policy Committee would consider establishing a generation fee or other funding options if the District's revenues and/or expenses were creating budgetary shortfalls.

4. Summary of Costs and Revenues

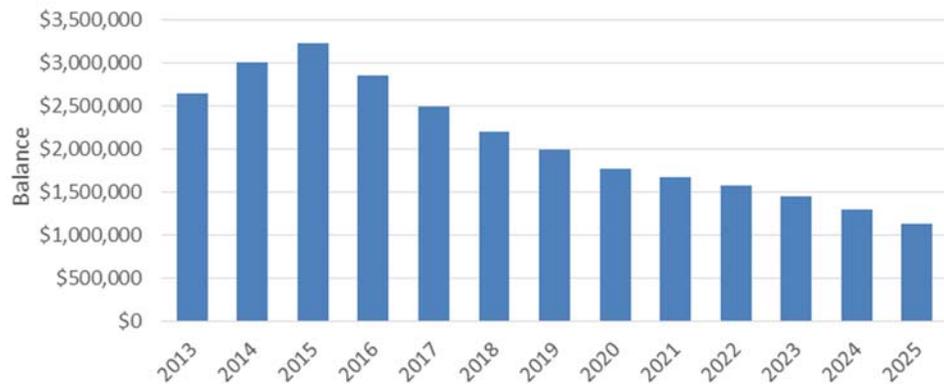
A summary of District revenues and expenditures for each year of the planning period is included in Table VIII-8. Total expenditures for the first year of the planning period are \$2.77 million, and expenditures are projected to decrease slightly to \$2.59 million by 2025. The following graph depicts actual and projected expenditures and revenue from the reference year, 2013, to the end of the planning period.

District Revenue and Expenses (2013 – 2025)



The District is projected to begin the planning period with a carryover balance of \$3.23 million and conclude the planning period with a balance of approximately \$1.13 million. Each year of the planning period is projected to have ample funding for each of the programs. The following figure presents the District’s ending balance from 2013 to 2025.

2013 – 2025 District Fund Balance



H. Section IX. District Rules (ORC Section 3734.53(C))

1. Existing Rules

The District maintains the authority to adopt rules consistent with the solid waste management plan adopted by the District in accordance and pursuant to Section 3734.53 (C)(1) through (C)(4) of the Revised Code. Rules adopted by the District are summarized in this section and include:

- Rule Lorain SWMD-01 – Definitions for Applicants for Solid Waste Facility Permits, Registrations or Licenses.

- Rule Lorain SWMD-02 – Solid Waste Facility Review.
- Rule Lorain SWMD-03 – Reporting Collection of Recyclable Materials and Solid Waste Facility Annual Report Data Submittal.
- Rule Lorain SWMD-04 – Waiver Process for the Use of Undesignated Facilities.
- Rule Lorain SWMD-05 – Fee Payment Forms.
- Rule Lorain SWMD-06 – Designated Solid Waste Facility.
- Rule Lorain SWMD-07 – Solid Waste Exempt from Designation.

2. Proposed Rules

With this *Plan Update*, the District is proposing the following rules:

- Rule Lorain SWMD-08 – Registration of Solid Waste Transporters.
- Rule Lorain SWMD-09 – Commingled Loads Hauled by Registered Solid Waste Transporters.

Section IX provides details regarding the content of these proposed rules.

**Table ES-1
General Information**

District Name: Lorain County Solid Waste Management District		
District ID #	Reference Year 2013	Planning Period: 2016-2025
(for OEPA use only)		
<u>Plan Status (underline one)</u>		
D	RD	Approved (date) / / OI (date) / / DA
Reason for Plan Submittal: Mandatory three year update		

Abbreviations: D=draft; RD=ratified draft, DR=draft revised, OI=ordered to be implemented, DA=draft amended

**Table ES-2
District/Coordinator/Office**

Name: Mr. Keith Bailey, District Director		
Address: 226 Middle Avenue		
City: Elyria	State: Ohio	Zip: 44035
Phone: (440) 329-5440	Fax: (440) 329-5777	

**Table ES-3
Plan Data Summary**

Plan Data		Reference Year 2013	2016 (year 1)	2020 (year 5)	2025 (year 10)
Population		307,506	310,596	314,715	319,657
Generation	Industrial	138,446	137,836	137,135	136,437
	Res/Comm	289,107	297,561	309,171	324,034
	Exempt	112,972	118,129	121,566	121,566
Total Generation (tons)		540,526	553,525	567,873	582,037
Waste Reduction	Industrial Source Reduction	0	0	0	0
	Industrial Recycling	90,589	91,680	93,156	95,034
	Res/Comm Source	0	0	0	0
	Res/Comm Recycling	37,341	40,346	44,165	49,971
	Yard Waste Composting	37,237	35,548	40,548	43,048
	MSW Composting	0	0	0	0
	Incineration	7	7	7	7
Total Waste Reduction (tons)		165,173	167,581	177,875	188,059
Disposal	In-District Landfills	352,890	362,848	366,658	380,359
	Out of District Landfills	22,470	23,104	23,346	13,626
Total Landfill (tons)		375,360	385,951	390,004	393,985
Waste Reduction Rate	Industrial	65.4%	66.5%	67.9%	69.7%
	Residential/Commercial	25.8%	25.5%	27.4%	28.7%

Source(s) of information: Tables IV-1, IV-5, IV-6, V-2, V-3, V-4, V-6, and VI-4A

**Table ES-4
Existing Disposal Facilities**

Name	County	District Tons	Total Tons	Years Left
In-District Landfills				
Lorain County Landfill	Lorain	352,890	636,589	16.70
Out-of-District Landfills				
Countywide Landfill	Stark	44	427,656	63.10
Pine Grove Regional Facility	Fairfield	1	56,767	65.50
American Landfill	Stark	9,912	486,315	65.60
Noble Road Landfill	Richland	9,488	334,678	9.90
Port Clinton Landfill	Ottawa	121	89,470	99.40
Evergreen R&D Facility	Wood	74	166,566	42.30
Kimble Sanitary Landfill	Tuscarawas	354	736,248	48.20
Erie County Sanitary Landfill	Erie	2,472	113,477	32.00
Carbon Limestone Landfill	Mahoning	2	221,278	58.70
Sunny Farms Landfill	Seneca	0.3	64,020	23.30
Out-of-State Landfills				
South Side Landfill	Marion (IN)	1.4	DNR	DNR
Total/Average		375,360	3,333,063	47.70

Source(s) of information: 2013 Ohio Facility Data Report Tables, Table III-1, and Table VI-4A

III. Inventories [ORC Section 3734-53(A)(1)-(4)]

This section of the *Plan Update* provides a review of the solid waste management system during the 2013 reference year. The reference year is the year used for data collection for solid waste programs, facilities and activities in the *Plan Update*. Projections developed in later sections in this *Plan Update* are based on the reference year inventories. Tables providing the narrative for Section III can be found at the end of the Section III.

This section of the *Plan Update* describes the facilities used to process solid waste. Information regarding collection, waste reduction, recycling and composting are presented for the reference year.

A. The Reference Year

The reference year for this *Plan Update* is 2013. All of the surveys and information presented in this *Plan Update* are based on 2013 data unless otherwise noted.

B. Existing Solid Waste Landfills

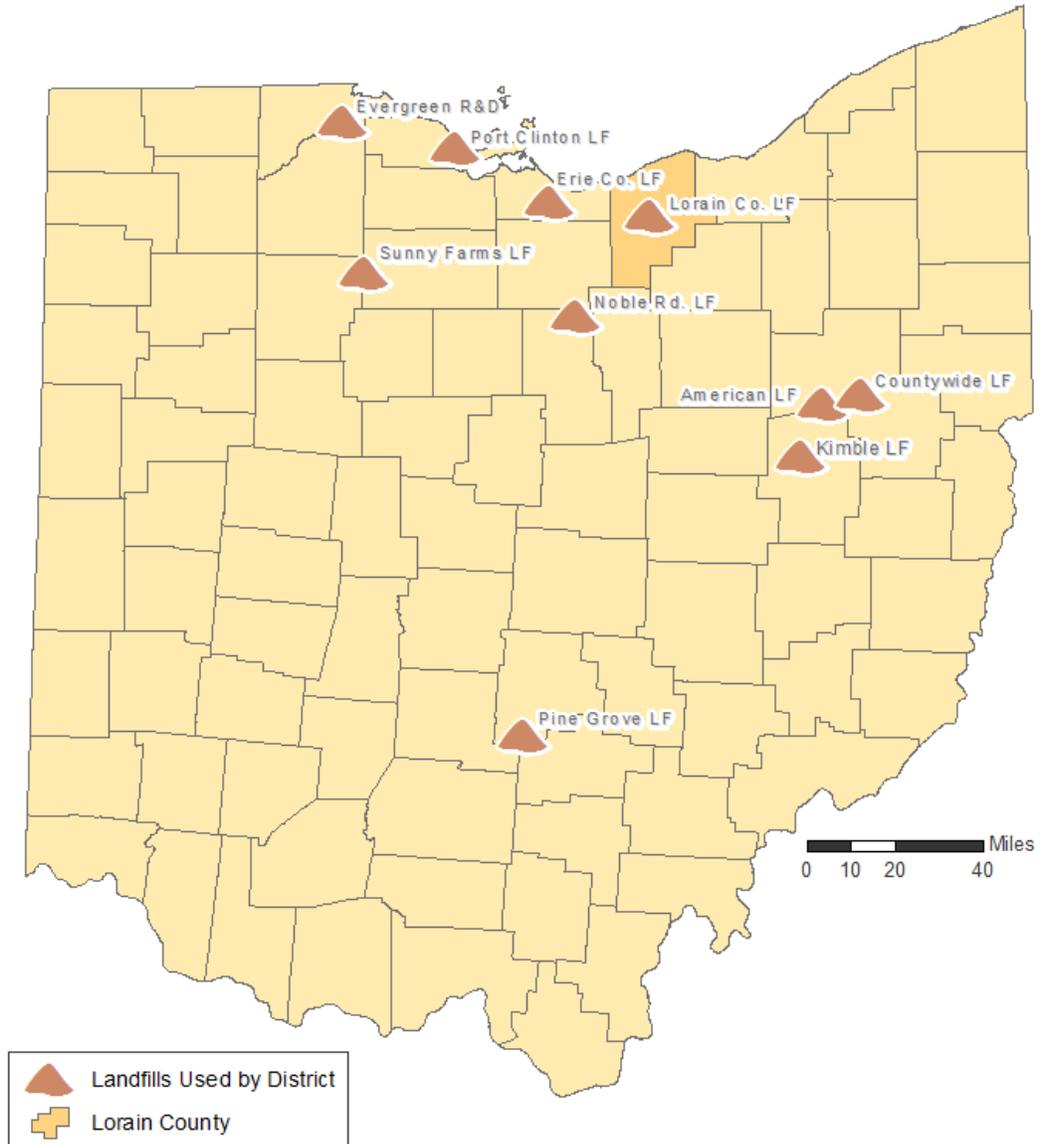
Table III-1, "Landfills Used by the District", presents a list of the landfill facilities where residential, commercial, industrial and exempt wastes were delivered directly to landfills for disposal. This table also includes the total amount of Lorain County solid waste that was delivered to incinerators or transfer facilities prior to being sent to a landfill. One out-of-district medical waste incinerator was used to manage District waste. All transfer facilities receiving Lorain County solid waste in 2013 were located outside the District. One special waste treatment facility, which is categorized as a transfer facility for the purposes of this *Plan Update*, was also used.

One in-district and nine out-of-district Ohio landfills provided disposal capacity for District waste that was directly hauled to a landfill. Approximately 367,831 tons of the District's solid and exempt waste was directly hauled to landfills during 2013. A total of 375,365 tons of waste was disposed by District residents, commercial businesses, and industry during 2013. This includes waste managed by landfills, incinerators, and transfer stations.

The in-district landfill, owned and managed by Republic Waste Services, managed 352,066 tons or approximately 94% of the District's solid waste in 2013. Nine out-of-district landfills, one out-of-district incinerator, five out-of-district transfer facilities, and one out-of state waste treatment facility managed approximately 23,299 tons, or 6% of the District's waste.

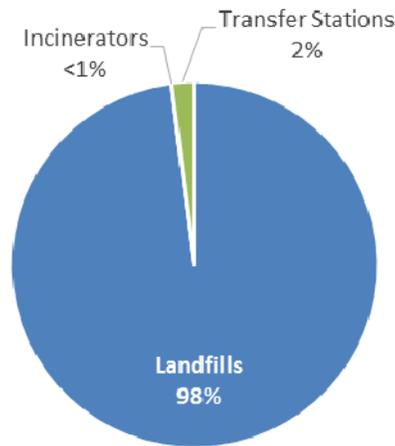
The following figure presents the landfills used to manage District waste during the reference year.

2013 Landfills Used to Manage District Waste



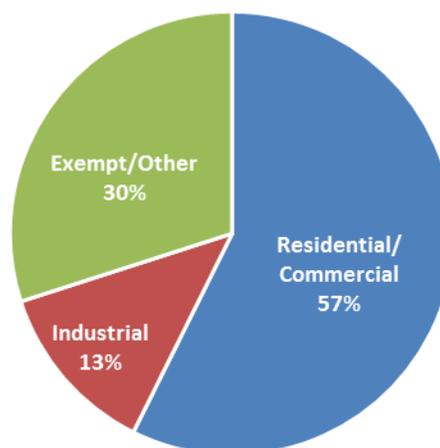
The following figure presents the percentage of waste received by each type of disposal facility in 2013.

Facilities Used to Manage Disposal in 2013



A significant portion of the District solid waste disposal in 2013 was exempt waste. Exempt waste is fly ash, bottom ash, foundry sand, slag, or construction and demolition debris which is not subject to solid waste district fees. The Lorain County Landfill disposed approximately 111,826 tons of exempt waste from the District in 2013, and approximately one-third of this amount was construction and demolition debris. The following figure displays the waste tonnage disposed by each sector during the reference year.

2013 Waste Tonnage Landfilled by Sector



In December 2008, Allied Waste merged with Republic Waste to form the second largest waste company in the United States. This merger brought a significant change to the solid waste marketplace in northeast Ohio.

The U.S. Department of Justice required Republic Waste to divest itself of two Ohio facilities (the Richland County Noble Road Landfill and the Harvard Road Transfer Facility in Cuyahoga County). In 2009, Republic completed the divestiture of the two facilities by selling them to Rumpke Waste Systems, a large regional privately held firm based in Hamilton County (Cincinnati). The divestiture requirement of the U.S. Department of Justice was expected to make the landfill market more competitive, with Waste Management Inc., Republic, and Rumpke the major players in the marketplace, as well as other small haulers now competing for municipal, commercial, and industrial waste contracts. After six years in fact, collection of solid waste has become more competitive. Rumpke is now providing service in ten township and village communities in Lorain County. (See Section IV for more discussion of current collection of solid waste and recyclables in the District.)

C. Existing Incinerators and Resource Recovery Facilities

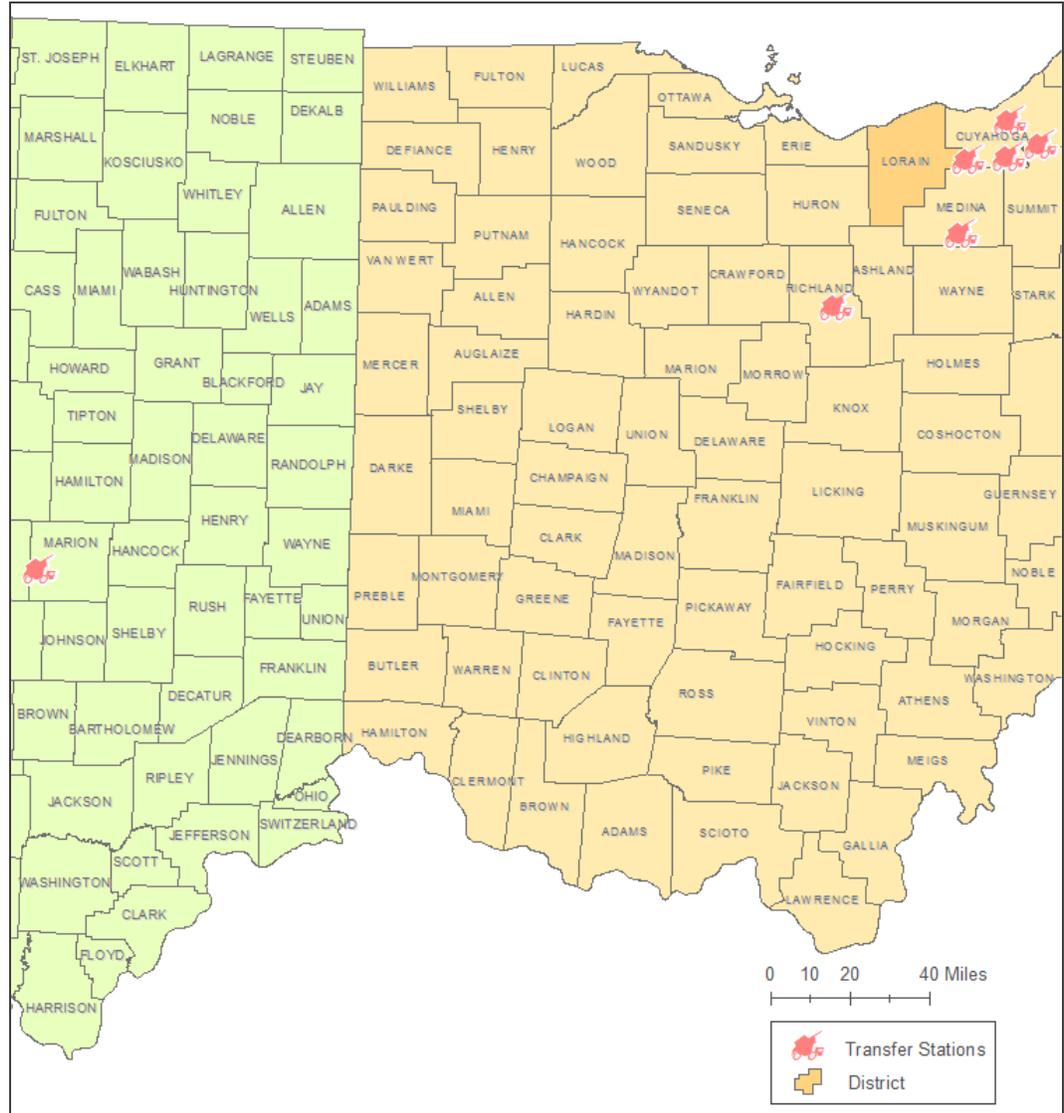
There were no existing incinerators or resource recovery facilities operating in the District. One out-of-district medical waste incinerator was used to manage a negligible amount of mater (7 tons) in 2013.

D. Existing Transfer Facilities

In 2013, District waste was delivered to seven transfer facilities: six were located out-of-district and one was located in Indiana. Five transfer facilities were privately-operated and two were operated by government entities. In 2013, the District did not own or operate transfer facilities. The transfer facilities managing Lorain County solid waste received 7,527 tons of waste (7,071 tons residential/commercial waste, 314 tons of industrial waste, and 142 tons of exempt waste).

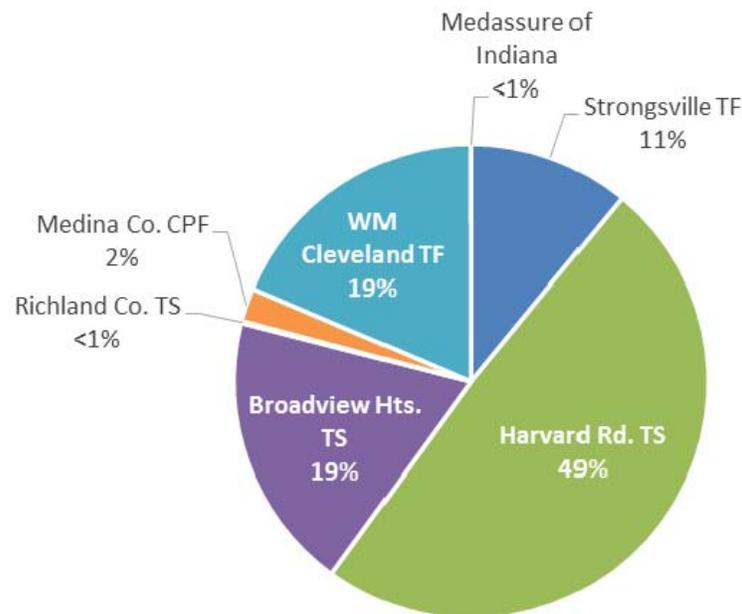
The facility in Indiana is not a typical transfer station, but it is classified as such for the purposes of this Plan Update. The facility accepts waste from a medical center in Elyria, Ohio. The materials are processed and landfilled. The following figure presents the locations of transfer stations used to manage District waste during the reference year.

2013 Transfer Stations Used to Manage District Waste



The following figure shows the percentages of District waste received by each of the five transfer facilities.

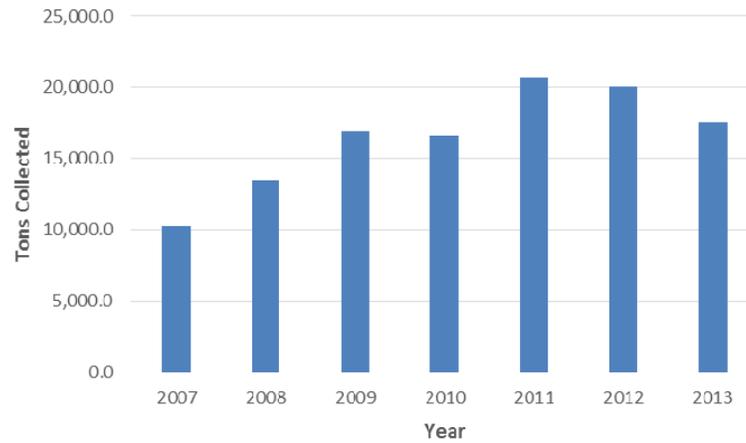
**District Waste Received at Transfer Stations:
Percent by Facility**



E. Existing Recycling and Household Hazardous Waste Collection Activities

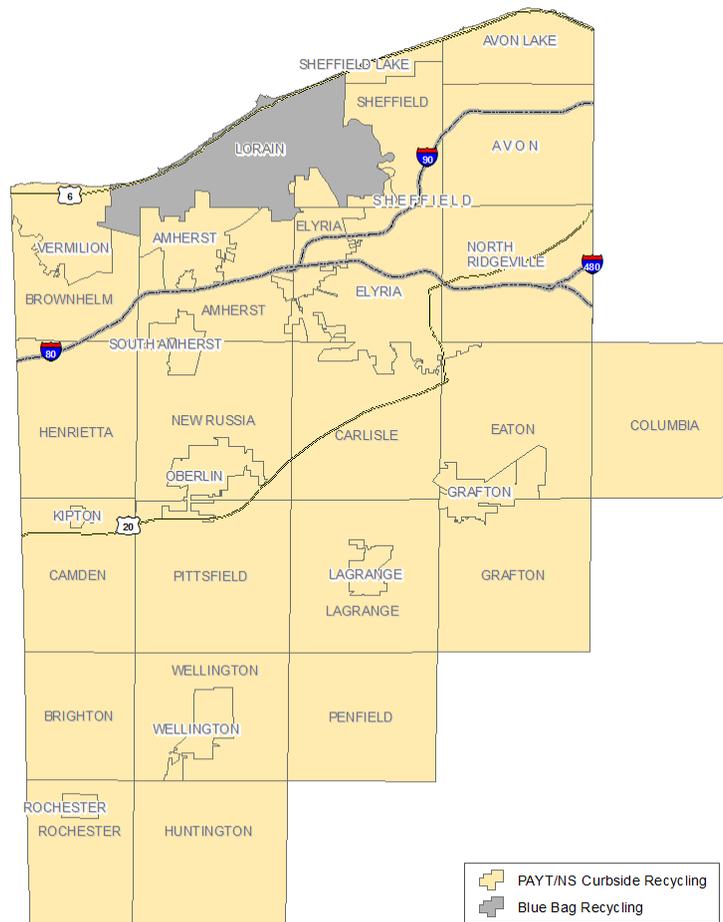
Existing Recycling Activities. Table III-4, “Residential Curbside Recycling Activities Used by the District”, presents data for 34 political jurisdictions that operated non-subscription curbside recycling programs in 2013. All but one of these curbside programs is a volume-based system, using either carts or limited use of cans. Volume-based programs have increased in number from thirteen in 2008, and have generally collected more material from 2007 through 2013.

Recyclables Collected from District Curbside Programs



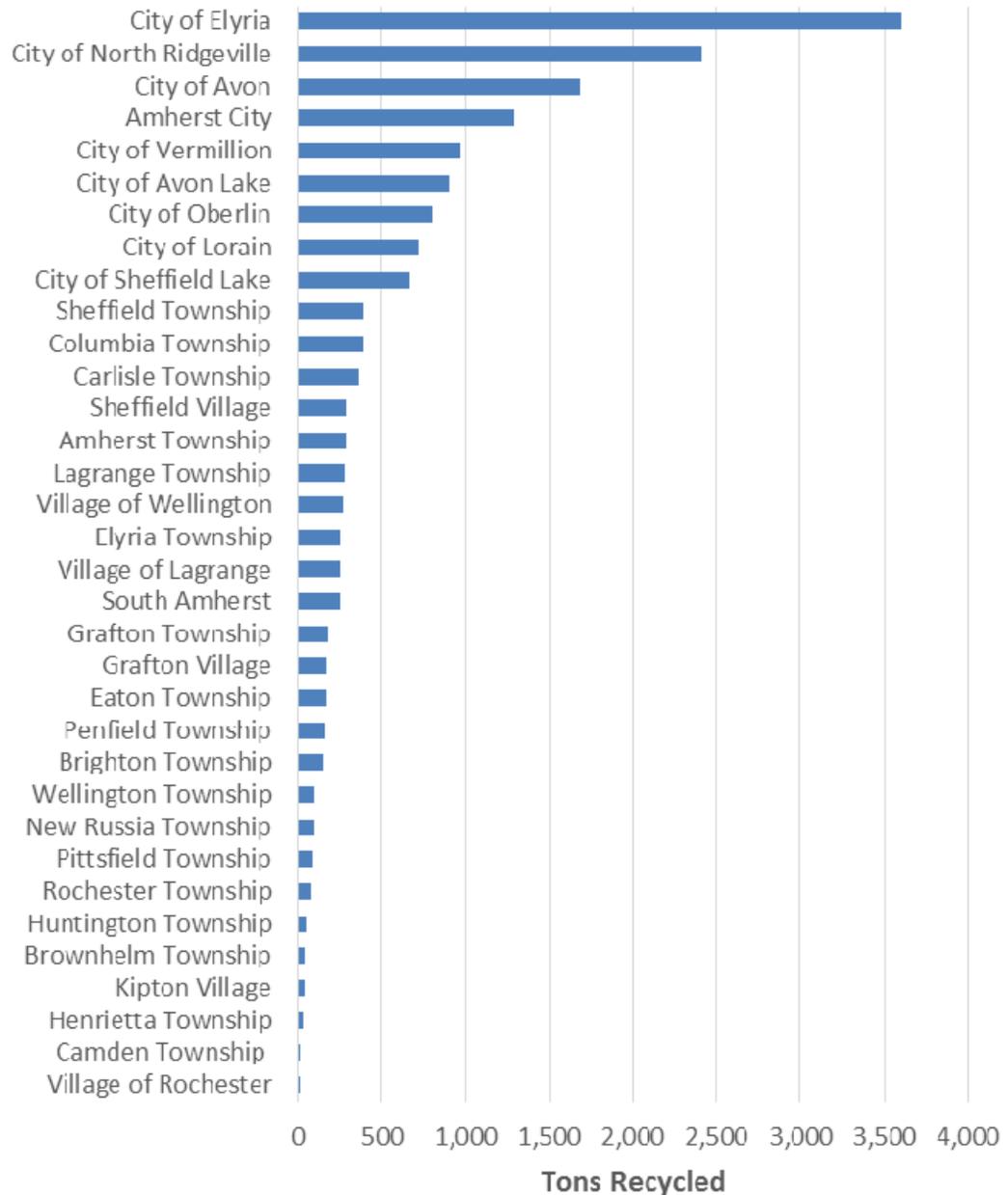
The following figure presents the type of curbside program (“PAYT/NS”: Pay-As-You-Throw, Non-subscription; or “Blue bag recycling”) operating in each political subdivision throughout the District:

District Curbside Recycling Programs



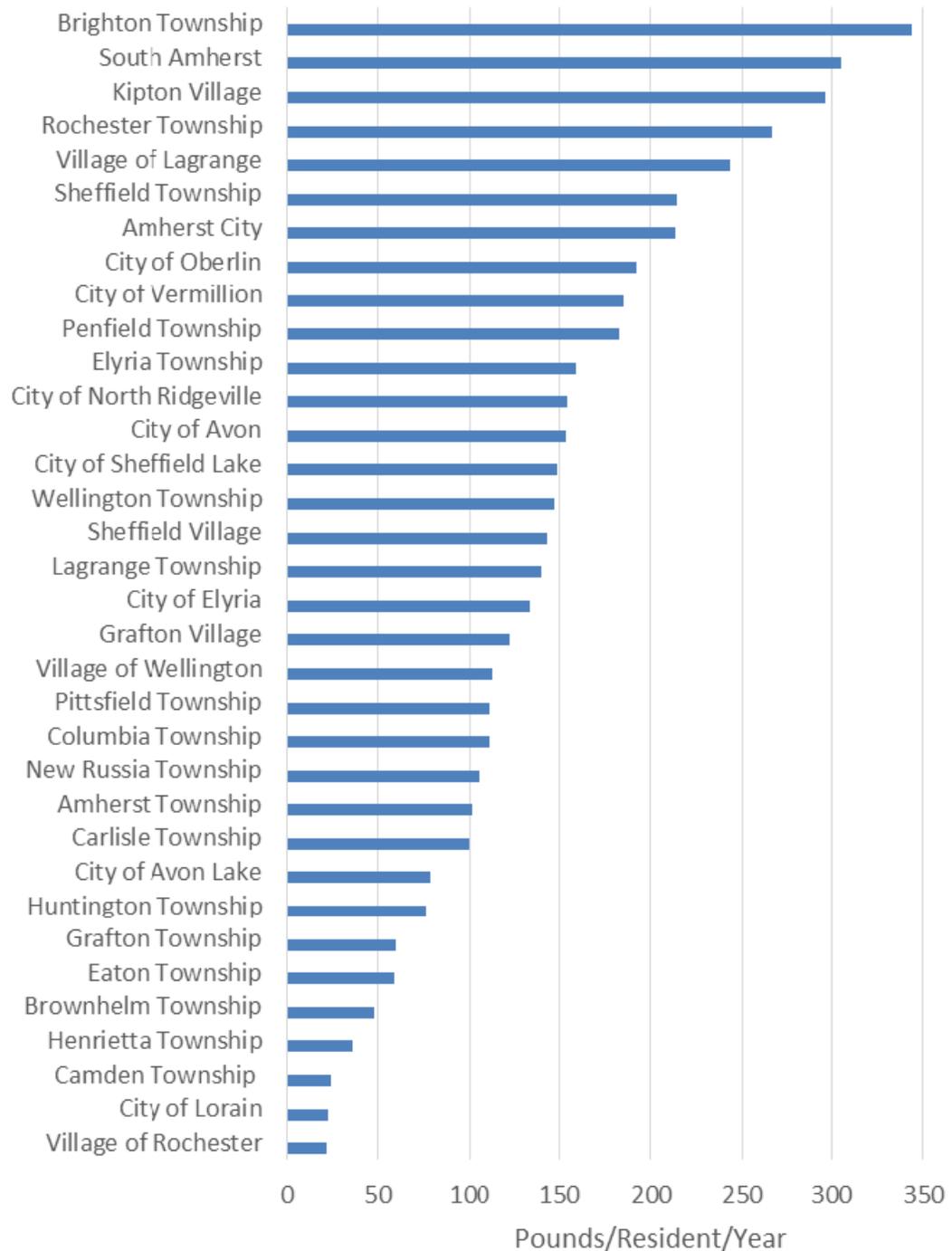
The following figure lists the communities which have implemented a curbside program and presents the tons of material recycled by each community for 2013. The cities of Elyria and North Ridgeville collected the largest quantity of curbside recyclables in 2013.

Lorain County Curbside Recycling Programs in 2013



Populations among Lorain County’s political jurisdictions vary. The following figure presents the average pounds of materials recycled per resident in 2013:

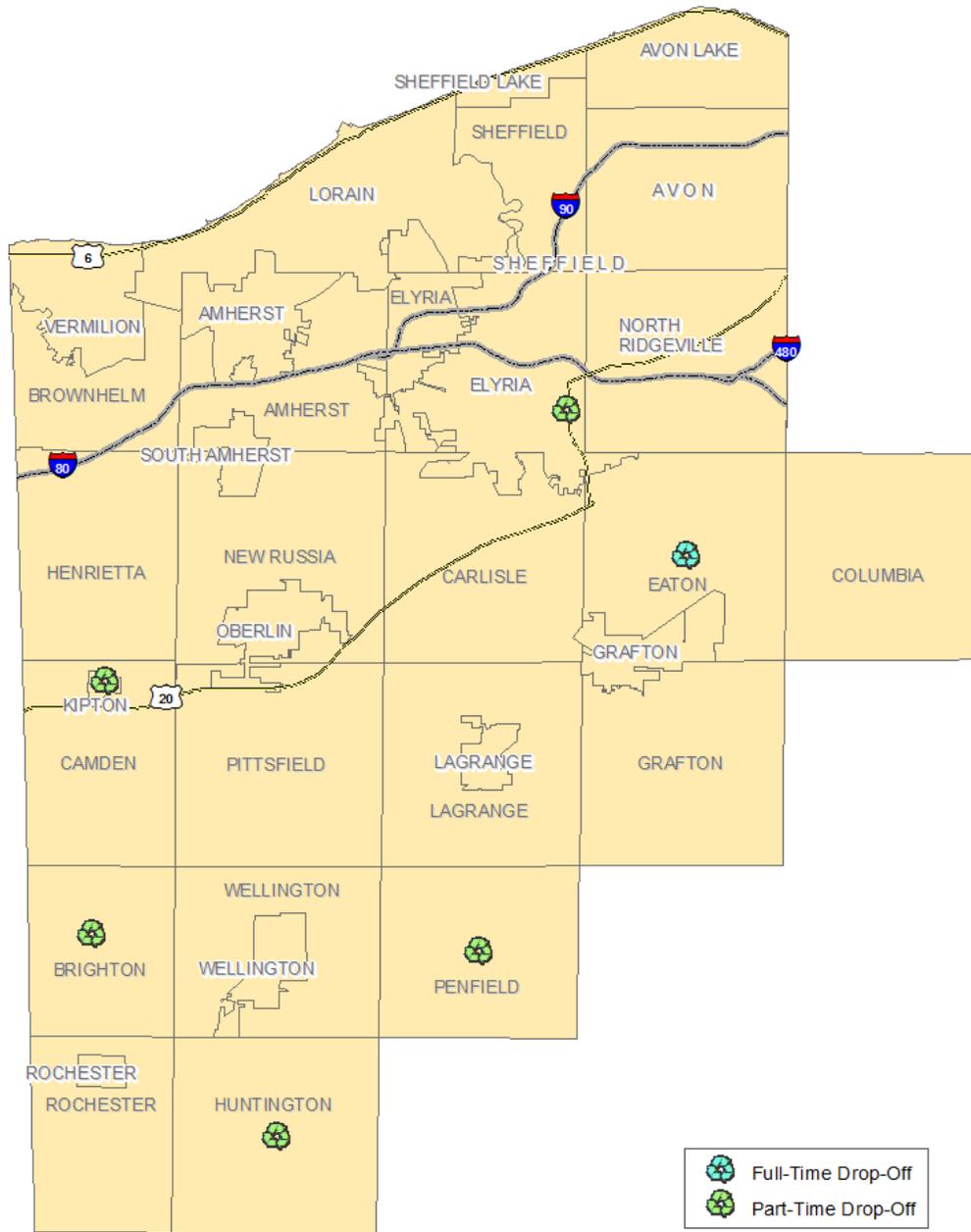
Per Capita Curbside Recycling in 2013



Brighton Township, South Amherst, Kipton, Rochester Township, and LaGrange had the highest per capita curbside recycling totals in 2013.

In addition to the curbside programs, there were six drop-off recycling locations available throughout the District. Table III-5, "Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District", lists the drop-off recycling locations. Five were operated by townships and one was operated by the District. One of the township-operated drop-offs was a full-time drop-off, while the rest were part-time (less than 40 hours per week). The following figure presents locations of each part-time and full-time recycling drop-off throughout the District.

2013 Drop-off Program Locations



Each of the drop-off programs collected aluminum cans, steel containers, glass containers, plastic, cardboard, and newspaper. The total recycling collected from each drop-off was not available for community-operated drop-offs because haulers reported a combined curbside and drop-off recycling total. The full-time drop-off operated by the District at the Collection Center also accepted other materials such as tires, appliances, and miscellaneous metals.

More than 200 Abitibi Paper Retriever bins were available for residents and businesses to recycle paper for free. Goodwill also accepted limited materials for reuse or recycling.

In addition to drop-offs, there were several other scrap dealers and recyclers that accepted materials from business and industry within the District. Most of the scrap dealers accepted aluminum, steel and other metals.

Existing HHW Activities. In 2010, the Lorain County Solid Waste Management District completed construction of a Special Waste Collection Center (Collection Center) designed to collect and process special waste materials not typically collected at curbside or drop-off recycling programs. The facility, which opened in June of 2010, received 6,545 vehicles by the end of that year. This facility was created to provide a greater opportunity for residents to dispose and recycle HHW and other special wastes, and control the costs associated with special, one-day collection events.



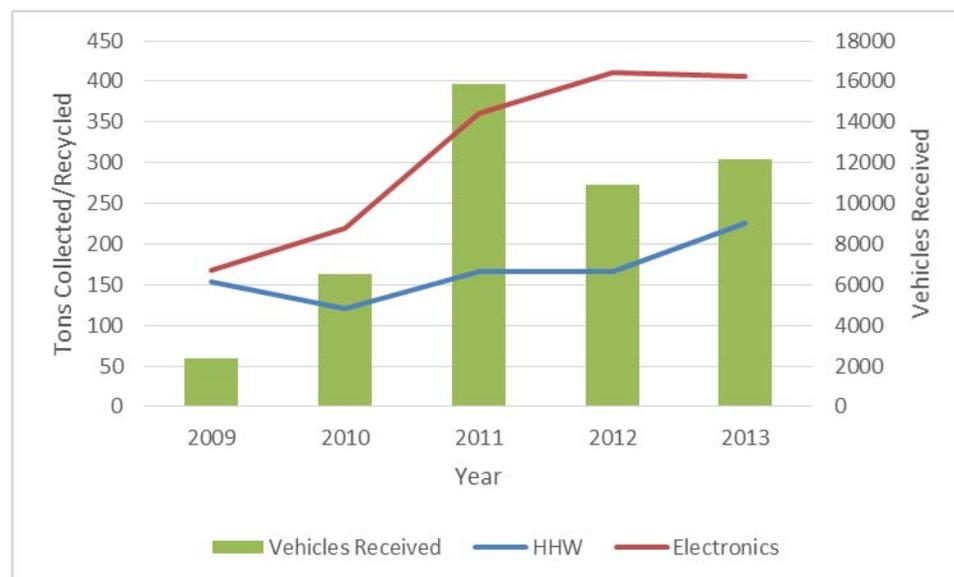
The Collection Center processed a total of 28,632 vehicles representing 34,558 households during the first two years of operation. The following list shows the types of materials collected:

- Household hazardous waste
- Scrap tires
- Electronics
- Fluorescent bulbs/ballasts
- Shred days
- Books
- Batteries
- OCC
- Metals

- Christmas trees
- Construction materials

In general, more than 90 percent of these materials collected are diverted for recycling or reuse. The District’s more than 300,000 residents may use the facility year around. The following figure shows tonnage for two of the materials which are collected, as well as the number of vehicles which were received at the one-day collection event in 2009 versus the Collection Center from 2010 through 2013. In general, the tons collected and the number of vehicles have increased during this time period with the operation of the Collection Center.

Annual Collection of HHW and Electronics: 2009-2013



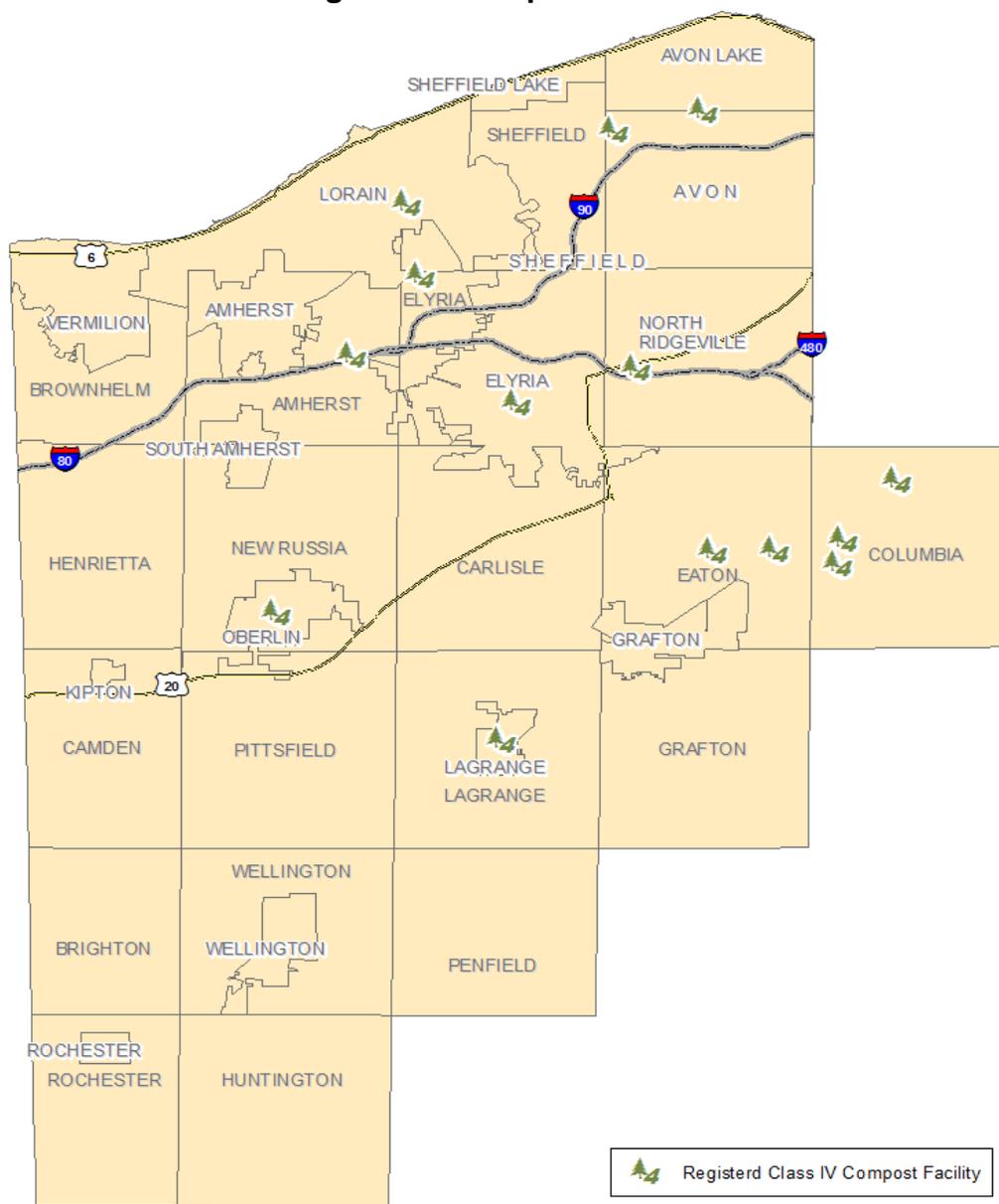
The District continues to maintain two permanent scrap tire collection sites in addition to the Collection Center: the Lorain City Garage, and the Grafton Township Hall. More than 34,000 passenger tires were collected in 2013, or approximately 681,900 pounds of scrap tires.

F. Existing Composting/Yard Waste Management Facilities

Table III-6, “Composting/Yard Waste Management Activities Used by the District” includes fourteen in-district and four out-of-district compost facilities which were registered with Ohio EPA in 2013. All of the facilities operating in the District were registered Class IV compost facilities and processed a total of 36,603 tons of yard waste and bulking agents. The out-of-district facilities reported receiving 988 tons from Lorain County, with 354 tons characterized as food waste. The total amount of yard waste and bulking agents composted by all facilities was 37,237 tons.

Other organics management activities in the District during 2013 included food waste haulers who reported collecting 606 tons, and the City of Avon Lake which generated 150 tons of wood chips through maintenance operations. The following figure presents the registered compost facilities located within the District. As stated above, the District also used four out-of-district compost facilities in 2013 to manage organic waste.

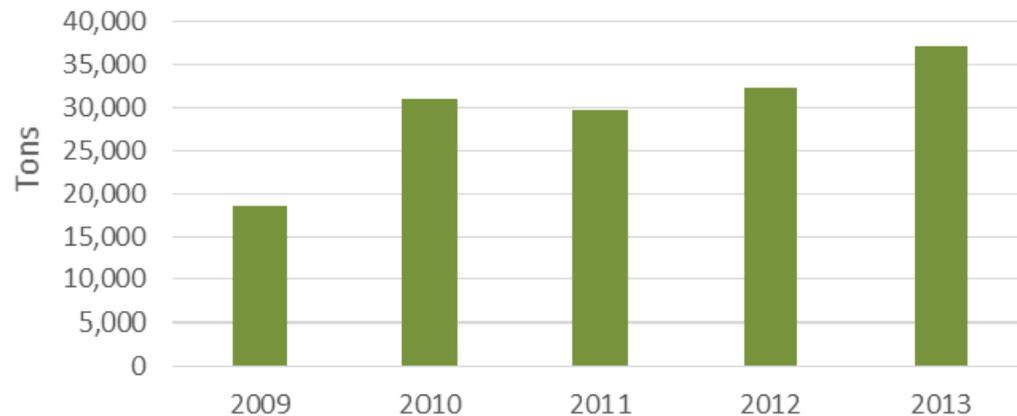
Registered Compost Facilities



The amount of composted yard waste has gradually increased during the past five years as shown in the following figure. One potential reason for the increase may be due to better reporting through the annual report

process. The increase may also be attributed to expanded collection activities within the District.

District Historical Yard Waste Management



G. Existing Open Dumps and Waste Tire Dumps

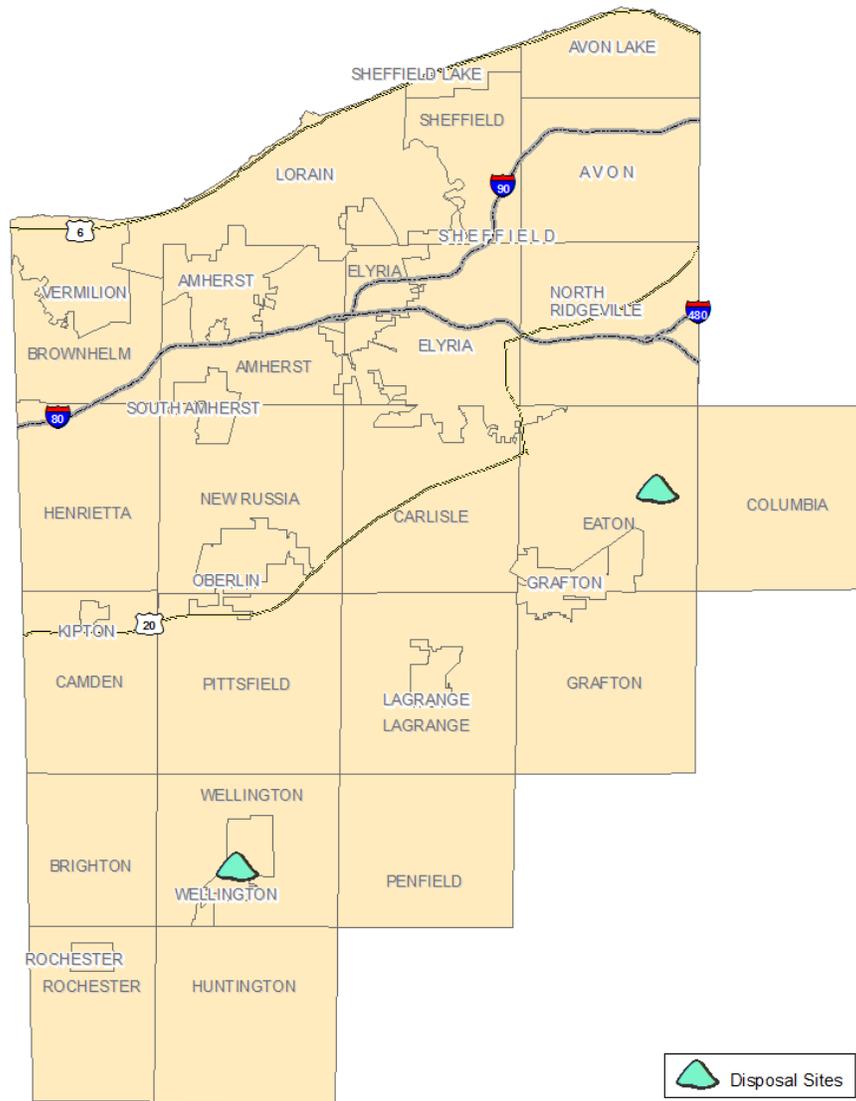
The three health departments in the District did not identify any existing open dumps or waste tire dumps during 2013. (See Table III-8.)

The District continues to fund two deputy sheriffs to assist with the investigation and prosecution of open dump sites. The Environmental Crime Unit investigated 108 potential criminal charges in 2013 related to a variety of violations. The District also continues to provide financial assistance to the local health districts to investigate open dumping cases and enforce solid waste regulations. (See Section IV of the *Plan Update* for further discussion of these programs.)

H. Ash, Foundry Sand and Slag Disposal Sites

There was one ash disposal site and one foundry sand disposal site identified in 2013. First Energy owns a coal ash site which is approximately 230 acres. The facility has been in existence since 1994. The District is unsure of its operational status. According to Ohio EPA records, there is a foundry sand disposal site operated by Sterling Foundry in Wellington. Ohio EPA records indicate that this site remains active. The following figure identifies the locations of these two disposal sites in the District.

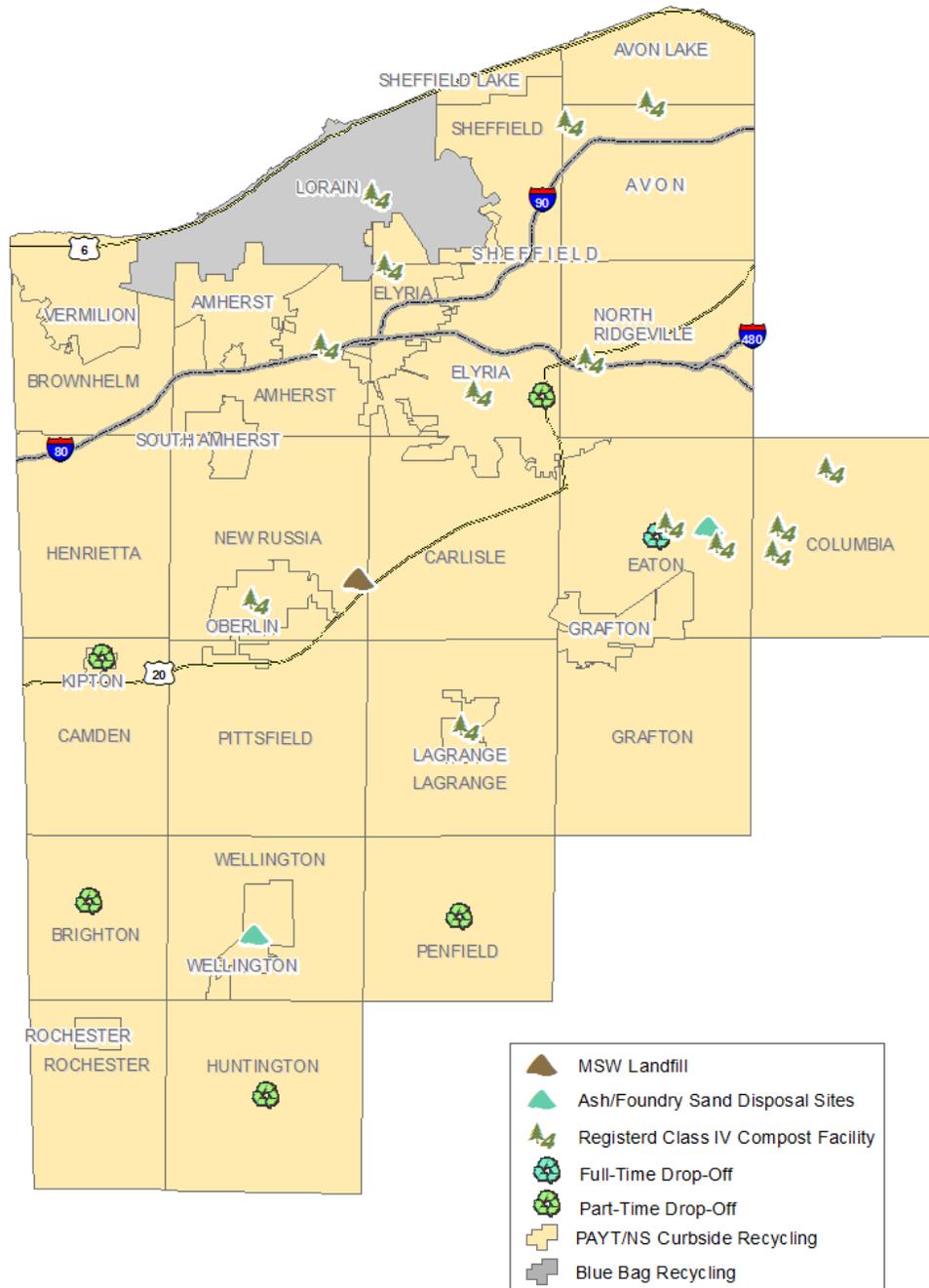
Ash, Foundry Sand and Slag Disposal Sites



I. Map of Facilities and Sites

A map of the District's facilities is included in Appendix E. The following figure is a smaller version of this map which has been included for reference.

District Facilities



J. Existing Collection Systems – Haulers

Table III-10, “Solid Waste Haulers Operating in the District”, includes two municipal hauling operations in the City of Elyria and the City of Oberlin. These two municipal operations combined collected 23,500 tons of solid waste. There are also four private sector haulers listed in Table III-10. Republic Waste, which collected most of the residential waste in 2013 did

not report tonnage hauled to the District. The year 2014 will likely show significantly higher amounts collected by Rumpke Waste due to the contract with the Lorain County Consortium which was awarded to this company in late 2013. (See Section IV for further discussion of the Lorain County Consortium.) In communities that do not hold contracts with Republic or are not a member of the Lorain County Consortium, there may be additional haulers providing residential waste collection service. Waste Management provided service to commercial and industrial businesses. Waste Management reported collecting 616 tons from the District in 2013.

**Table III-1
Landfills Used by the District**

Facility Name	Type	Location		Waste Received from the SWMD (TPY)			
		County	State	Residential/ Commercial	Industrial	Exempt	Total
In-District Landfills							
Lorain County Landfill (Republic Services)	PO, PA	Lorain	Ohio	201,398	38,842	111,826	352,066
Out-of-District Landfills							
Countywide Landfill (Republic Waste)	PO, PA	Stark	Ohio	10	34	0	44
Pine Grove Regional Facility (Republic Waste)	PO, PA	Fairfield	Ohio	0	1	0	1
American Landfill, Inc. (Waste Management)	PO, PA	Stark	Ohio	514	8,000	0	8,513
Noble Road Landfill (Rumpke)	PO, PA	Richland	Ohio	3,804	290	92	4,186
Port Clinton Landfill (Republic Services)	PO, PA	Ottawa	Ohio	119	2	0	121
Evergreen Recycling and Disposal Facility (Wood Co. Commissioners)	GO, PA	Wood	Ohio	54	20	0	74
Kimble Sanitary Landfill Kimble Companies	PO, PA	Tuscarawas	Ohio	0	354	0	354
Erie County Sanitary Landfill (Erie Co. Commissioners)	GO, PA	Erie	Ohio	1,559	0	912	2,472
Sunny Farms Landfill (Sunny Farms Landfill LLC)	PO, PA	Seneca	Ohio	0	0	0	0
Out-of-State Landfills							
None	N/A	N/A	N/A	0	0	0	0
Landfill Total				207,457	47,544	112,830	367,831
Waste-to-Energy Transfer Facilities							
Stericycle - Medical Waste	M-INCIN	Geauga	Ohio	7	0	0	7
Out-of-District Transfer Facilities							
Various (See Table III-3)	PA	Various	Ohio	7,071	314	142	7,527
Total				214,534	47,858	112,972	375,365

PA = publicly available, PO = privately operated, GO = government operated, N/A = not applicable

Note: Transfer Station Annual Operational Report Data is included in this table to demonstrate the total amount landfilled in 2013.

Source(s) of information: Annual Operational Reports for Landfills 2013

**Table III-2
Solid Waste Incinerators and Waste-to-Energy Facilities Used by the District**

Facility Name	Type	Location		Waste Received from the SWMD (TPY)			Total Ash Produced (TPY)
		County	State	Residential/Commercial	Industrial	Exempt	
In-District Facilities							
None	N/A	N/A	N/A	0	0	0	0
Out-of-District Facilities							
Stercycle - Medical Waste	M-INCIN	Geauga	Ohio	6.91	0	6.91	2,073
Out-of-State Facilities							
None	N/A	N/A	N/A	0	0	0	0
Totals				7	0	7	2

M-INCIN = medical incinerator

**Table III-3
Solid Waste Transfer Facilities Used by the District**

Facility Name	Type	Location		Waste Received from the SWMD (TPY)			Recyclables Processed	
		County	State	Residential/Commercial	Industrial	Exempt	Recovered from Waste	Total
In-District Facilities								
None	N/A	N/A	N/A	0	0	0	0	0
Out-of-District Facilities								
Strongsville Solid Waste Transfer Facility	GO, PA	Cuyahoga	Ohio	821	0	4	824	0
Harvard Road Transfer Station	PO, PA	Cuyahoga	Ohio	3,613	0	79	3,691	0
Broadview Heights Transfer Station	PO, PA	Cuyahoga	Ohio	1,373	0	56	1,429	0
Richland County Transfer Station	PO, PA	Richland	Ohio	7	0	4	11	0
Medina County Material Recovery Facility	GO, PA	Medina	Ohio	171	0	0	171	0
Waste Management Cleveland Transfer	PO, PA	Cuyahoga	Ohio	1,085	314	0	1,399	0
Out-of-State Facilities								
Medassure of Indiana Treatment Facility	PO, PA	Marion	Indiana	1.38	0	0	1.38	0
Totals				7,071	314	142	7,527	0

PA = publicly available, PO = privately operated, GO = government operated

Source(s) of information: Annual Operating Reports for 2013

**Table III-4
Residential Curbside Recycling Activities Used by the District**

Community Name, Address, Phone	Type	Population Served	Collection Frequency	Average # of Households Participating	Service Area		Types of Materials Accepted							Recyclables Processed from SWMD (TPY)	
					County	Township/City	AC	GL	PL	ONP	OCC	SC	MxP		ST
Volume Based System Curbside Recycling															
Amherst City 206 S. Main Street Amherst, Ohio 44001 (440) 988-4380	VBS	12,112	Weekly	4,772	Lorain	Amherst City	X	X	X	X	X	X	X	X	1,292
Amherst Township 7857 Oberlin Road Elyria, Ohio 44035 (440) 233-5744	VBS	5,663	Weekly	2,249	Lorain	Amherst Township	X	X	X	X	X	X	X	X	287
Avon City 36774 Detroit Road Avon, Ohio 44011 (440) 937-7807	VBS	22,017	Weekly	7,584	Lorain	City of Avon	X	X	X	X	X	X	X	X	1,687
Avon Lake City 750 Avon Blendon Road Avon Lake, Ohio 44012 (440) 933-6141	VBS	22,998	Weekly	8,900	Lorain	City of Avon Lake	X	X	X	X	X	X	X	X	901
Brighton Township 19996 Baird Road Wellington, OH 44090 (440) 647-4340	VBS	908	Weekly	334	Lorain	Brighton Township	X	X	X	X	X	X	X	X	156
Brownhelm Township 1940 North Ridge Road Vermilion, OH 44089 (440) 984-2243	VBS	1,797	Weekly	636	Lorain	Brownhelm Township	X	X	X	X	X	X	X	X	43
Camden Township 15374 Baird Road Oberlin, OH 44074 (440) 775-2015	VBS	1,416	Weekly	497	Lorain	Camden Township	X	X	X	X	X	X	X	X	17

**Table III-4 (continued)
Residential Curbside Recycling Activities Used by the District**

Community Name, Address, Phone	Type	Population Served	Collection Frequency	Average # of Households Participating	Service Area		Types of Materials Accepted							Recyclables Processed from SWMD (TPY)		
					County	Township/City	AC	GL	PL	ONP	OCC	SC	MxP		ST	
Carlisle Township 11969 LaGrange Road LaGrange, Ohio 44050 (440) 458-4491	VBS	7,455	Weekly	3,018	Lorain	Carlisle Township	X	X	X	X	X	X	X	X	X	373
Columbia Township 25496 Royalton Road Columbia, Ohio 44028 (440) 236-8802	VBS	7,094	Weekly	2,576	Lorain	Columbia Township	X	X	X	X	X	X	X	X	X	396
Eaton Township 12043 Avon Belden Road Grafton, OH 44044 (440) 748-2236	VBS	5,777	Weekly	2,149	Lorain	Eaton Township	X	X	X	X	X	X	X	X	X	170
Elyria City 328 Broad Street Elyria, Ohio 44035 (440) 326-1417	VBS	53,956	Weekly	22,400	Lorain	City of Elyria	X	X	X	X	X	X	X	X	X	3,609
Elyria Township 41416 Griswold Road Elyria, Ohio 44035 (440) 324-9462	VBS	3,233	Weekly	1,398	Lorain	Elyria Township	X	X	X	X	X	X	X	X	X	257
Grafton Township 17109 Avon Beldon Road Grafton, OH 44044 (440) 926-2166	VBS	6,007	Weekly	1,003	Lorain	Grafton Township	X	X	X	X	X	X	X	X	X	180
Grafton Village 960 Main Street Grafton, OH 44044 (440) 926-2401	VBS	2,831	Weekly	965	Lorain	Grafton Village	X	X	X	X	X	X	X	X	X	174

**Table III-4 (continued)
Residential Curbside Recycling Activities Used by the District**

Community Name, Address, Phone	Type	Population Served	Collection Frequency	Average # of Households Participating	Service Area		Types of Materials Accepted							Recyclables Processed from SWMD (TPY)	
					County	Township/City	AC	GL	PL	ONP	OCC	SC	MxP		ST
Henrietta Township 10413 Vermilion Road Oberlin, OH 44074 (440) 965-4122	VBS	1,853	Weekly	714	Lorain	Henrietta Township	X	X	X	X	X	X	X	X	33
Huntington Township 26309 State Route 58 Wellington, OH 44090 (440) 647-0040	VBS	1,334	Weekly	491	Lorain	Huntington Township	X	X	X	X	X	X	X	X	51
Kipton Village 299 State Rd. Kipton, OH 44049	VBS	243	Weekly	108	Lorain	Kipton Village	X	X	X	X	X	X	X	X	36
Lagrange Township 18563 S.R. 301 Lagrange, Ohio 44050 (440) 355-6071	VBS	4,050	Weekly	2,225	Lorain	Lagrange Township	X	X	X	X	X	X	X	X	283
Lagrange Village P.O. Box 597 Lagrange, Ohio 44050 (440) 355-5555	VBS	2,105	Weekly	726	Lorain	Village of Lagrange	X	X	X	X	X	X	X	X	256
New Russia Township 46268 Butternut Ridge Rd. Oberlin, Ohio 44074 (440) 775-7782	VBS	1,932	Weekly	719	Lorain	New Russia Township	X	X	X	X	X	X	X	X	102
North Ridgeville City 7307 Avon Blenden Road N. Ridgeville, Ohio 44039 (440) 353-0853	VBS	31,269	Weekly	11,500	Lorain	City of North Ridgeville	X	X	X	X	X	X	X	X	2,414

**Table III-4 (continued)
Residential Curbside Recycling Activities Used by the District**

Community Name, Address, Phone	Type	Population Served	Collection Frequency	Average # of Households Participating	Service Area		Types of Materials Accepted						Recyclables Processed from SWMD		
					County	Township/City	AC	GL	PL	ONP	OCC	SC		MxP	ST
Oberlin City 85 S. Main Street Oberlin, Ohio 44074 (440) 775-7251	VBS	8,390	Weekly	2,730	Lorain	City of Oberlin	X	X	X	X	X	X	X	X	806
Penfield Township 41012 OH-8 Wellington, OH 44090 (440) 315-5607	VBS	1,792	Weekly	650	Lorain	Penfield Township	X	X	X	X	X	X	X	X	164
Pittsfield Township 18938 Pitts Road Wellington, Ohio 44090 (440) 775-3352	VBS	1,593	Weekly	610	Lorain	Pittsfield Township	X	X	X	X	X	X	X	X	89
Rochester Village 103 Middle Street Rochester, Ohio 44090 (440) 647-3968	VBS	182	Weekly	77	Lorain	Village of Rochester	X	X	X	X	X	X	X	X	2
Rochester Township 52185 Griggs Rd. Wellington, OH 44090 (440) 647-3731	VBS	624	Weekly	233	Lorain	Rochester Township	X	X	X	X	X	X	X	X	83
Sheffield Lake City 4750 Richelieu Avenue Sheffield, Ohio 44054 (440) 949-6259	VBS	9,067	Weekly	3,721	Lorain	City of Sheffield Lake	X	X	X	X	X	X	X	X	675
Sheffield Township 5166 Clinton Avenue Lorain, OH 44055 (440) 277-4215	VBS	3,702	Weekly	1,506	Lorain	Sheffield Township	X	X	X	X	X	X	X	X	397

**Table III-4 (continued)
Residential Curbside Recycling Activities Used by the District**

Community Name, Address, Phone	Type	Population Served	Collection Frequency	Average # of Households Participating	Service Area		Types of Materials Accepted										Recyclables Processed from SWMD
					County	Township/City	AC	GL	PL	ONP	OCC	SC	MxP	ST			
Sheffield Village 4340 Colorado Avenue Sheffield Lake, OH 44054 (440) 949-6032	VBS	4,017	Weekly	1,581	Lorain	Sheffield Village	X	X	X	X	X	X	X	X	X	X	288
South Amherst 103 W. Main Street South Amherst, OH 44001 (440) 986-2202	VBS	1,671	Weekly	665	Lorain	South Amherst	X	X	X	X	X	X	X	X	X	X	255
City of Vermillion 5511 Liberty Avenue Vermillion, OH 44089 (440) 204-2400	VBS	10490	Weekly	4,183	Lorain	City of Vermillion	X	X	X	X	X	X	X	X	X	X	970
Wellington Township PO Box 425 Wellington, OH 44090 (440) 647-2219	VBS	1,398	Weekly	531	Lorain	Wellington Township	X	X	X	X	X	X	X	X	X	X	103
Wellington Village 115 Willard Memorial Square Wellington, OH 44090 (440) 647-2113	VBS	4,820	Weekly	1,956	Lorain	Village of Wellington	X	X	X	X	X	X	X	X	X	X	273
Volume Based System - Total Recycled in 2013																	
Non-Subscription Curbside Recycling																	
Lorain City 200 W. Erie Ave Lorain, OH 44052 (440) 246-6886	NS	63,707	Weekly	25,529	Lorain	City of Lorain	X	X	X	X	X	X	X	X	X	X	724
Non-Subscription Curbside - Total Recycled in 2013																	
Total Recycled in 2013																	
16,822																	
17,546																	

VBS=Volume Based Recycling; NS=Non-Subscription Curbside Recycling; S=Subscription Curbside Recycling
 AC=Aluminum Containers; GL=Glass containers; PL=Plastic containers; ONP=newspaper; OCC=cardboard; SC= Steel Containers; MxP=Mixed Paper; ST=Scrap
Source(s) of information: 2013 Annual Report; Re-TRAC Connect; District Information. Population/Number of Households - ODOT - Estimated Housing Units for Ohio Places, County and County Subdivisions

Table III-5
Drop-offs, Buybacks, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District

Facility/Activity Name, Address, Phone	Type of Facility or Activity	Types of Materials Accepted												Service Area			Hours Available to Public	Recyclables Processed from the SWMD (TPY)	Processing Capacity (tons)							
		AC	GL	PL	ONP	OCC	SC	LAB	Mag	OHF	MxP	ST	App	OM	Oth	County			Townships/Cities	Population Served	Transports Materials	% of Material from Sector	Daily (TPD)	Annual (TPY)		
Full Time/Full Service Drop-Off Recycling Centers																										
Eaton Township Recycling Center 12043 Avon Belden Rd. Grafton, OH 44044	PA: DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Lorain	Eaton Township	6,007	No	24 hrs/day, 7 days/week	Totals Combined with Curbside Table III-4.	100% R	DNR	DNR
Part Time/Full Service Drop-Off Recycling Centers																										
Lorain County Collection Center 540 S Abbe Rd. Elyria, OH 44035	PA: DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Lorain	District	307,506	No	12 to 6 p.m., Mon. & Wed.: 9 a.m. to 6 p.m. Sat.	36	100% R	DNR	DNR
Brighton Township Recycling Center 21451 State Route 511 North Wellington, OH 44090	PA: DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Lorain	Brighton Township	915	No	4.5 hours per month	Totals Combined with Curbside Table III-4.	100% R	DNR	DNR
Camden Township/Kipton Village Recycling Center 417 State St. Kipton, OH 44049	PA: DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Lorain	Camden Township Village of Kipton	1,668	No	2nd & 4th Sat. 8am - 1pm (M&P & OCC anytime)	Totals Combined with Curbside Table III-4.	100% R	DNR	DNR
Huntington Township 27001 State Route 58 Wellington, OH 44090	PA: DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Lorain	Huntington Township	1,341	No	Saturday 10 am - 2 pm	Totals Combined with Curbside Table III-4.	100% R	DNR	DNR
Penfield Township 41012 Route 18 Wellington, OH 44090	PA: DO	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Lorain	Penfield Township	1,799	No	Wednesday 3pm-7pm Saturday 10am-3pm	Totals Combined with Curbside Table III-4.	100% R	DNR	DNR
Other Drop-off Facilities																										
Abitibi Consolidated Various schools and public and private organizations	PA: DO																	Lorain	District	307,506	N/A	24 hrs/day, 7 days/week	2,735	50% R 50% C	DNR	DNR
Goodwill	PA: DO																	Lorain	District	307,506	N/A	Business hours	1,014	94% R/C 6% I	DNR	DNR
Brokers, Processors, Buy Back Centers																										
Associated Paper Stock 11510 South Ave. North Lima, OH 44452 330-549-5311	B																	Lorain	District	307,506	Yes	DNR	146	100% C	DNR	DNR
Carustar Recovered Fiber Group 3400 Vega Avenue Cleveland, Ohio 44113 216-961-5060	B																	Lorain	District	307,506	Yes	DNR	518	100% I	DNR	DNR
D&B Auto Wrecking 11097 Jaquay Rd. Columbia Station, OH 44028	BB																	Lorain	District	307,506	DNR	6 days per week	2,400	DNR	DNR	DNR
Dobie Pallets, Inc 35544 Lorain Rd North Ridgeville, OH 44039 440-327-2255	B, P.A: DO																	Lorain	District	307,506	Yes	Mon-Fri 8:00am-4:00pm	1,300	2% R 18% C 80% I	DNR	DNR

**Table III-6
Composting/Yard Waste Management Activities Used by the District**

Facility Name or Activity	Type	County	Waste Received from the SWMD		
			Address/Phone	Materials	Amount (Tons)
<i>In-District Registered Compost Facilities</i>					
Avon Lake Central Fueling	Class IV	Lorain	750 Avon Beldon Rd. Avon Lake, OH 216-933-6141	YW	4,498
Amherst Township Yard Waste Collection Site	Class IV	Lorain	7595 Oberlin Rd. Elyria, OH	YW	747
Carlisle Township	Class IV	Lorain	11969 LaGrange Rd. LaGrange, OH 440-458-6688	YW	1,037
Eaton Township Composting Center	Class IV	Lorain	12043 Avon Belden Rd. Grafton, OH 440-748-2236	YW	532
City of Elyria	Class IV	Lorain	45 Xchestnut Rd. Elyria, OH 440-322-9406	YW	7,272
JDS Trucking, Inc	Class IV	Lorain	27230 Royalton Rd. Columbia Station, OH 440-236-6575	YW	400
JS Composting	Class IV	Lorain	38599 Center Ridge North Ridgeville, OH 440-327-6010	YW	177
Kurtz Bros Inc	Class IV	Lorain	1180 Miller Rd. Avon, OH 44011 216-857-0147	YW	18,444
City of Lorain	Class IV	Lorain	3000 East 28th St. Lorain, OH 440-244-4294	YW	1,583
M & B Trucking Express Corp.	Class IV	Lorain	27457 Royalton Rd. Columbuia Station, OH	YW	874
Morton's Landscape Development Co.	Class IV	Lorain	Jaquay Rd. Columbia Station, OH 440-236-3550	YW	339
Oberlin Compost	Class IV	Lorain	44436 State Route 511 E Oberlin, OH 216-775-7204	YW	700
Alman Brothers Excavating	Class IV	Lorain	33590 Royalton Rd. Grafton, OH	DNR	0
DDBK LLC	Class IV	Lorain	875 N. Ridge Road. E Lorain, OH	DNR	0
Subtotal					36,603
<i>Out-of-District Registered Compost Facilities</i>					
Rosby Resource Recycling	Class II	Cuyahoga	54 East Schaaf Rd. Brooklyn Heights, OH	FW	241
				YW	72
Yard Waste Recovery - Barnes Nursery	Class II	Erie	1630 Camp Rd. Huron Twnshp, OH	FW	113
				YW	539
Sand Road Ent., Inc.	Class IV	Huron	4352 Sand Rd. Norwalk, OH	YW	10
#1 Landscape	Class IV	Medina	3775 Ridge Rd. Medina, OH	YW	13
Subtotal					988
<i>Other Activities</i>					
Food Waste Haulers	N/A	Lorain	Various	FW	606
Various Political Jurisdictions	N/A	Lorain	Various	Wood chips	150
Subtotal					756
Grand Total					38,347

DNR = did not report, NA = not applicable, YW = yard waste, FW = food waste

Source(s) of information: 2013 Draft Compost Facility Planning Report

**Table III-7
Facilities Used by the District Which are Located Outside Ohio: Additional Data**

Facility Name	Facility Mailing Address	Facility Owner, Contact	Facility Operator, Phone	Daily Waste Receipt Limit, (TPD)	Number of Days Facility Open/Year
Medassure of Indiana Treatment Facility	1013 South Girls School Road Indianapolis, IN 46231	Medassure of Indiana LLC Izekiel Mendlowitz	Joseph Dellioacovo 732-363-7444	N/A	DNR

Source(s) of information: 2013 Ohio EPA Data

**Table III-8
Open Dumps and Waste Tire Dumps Located in the District**

Site Location (description)	Land Owner Mailing Address/Phone	Description of Materials Dumped	Approximate Size of Site (acres)	Time Period Site has Existed	2013 Update
<i>Open Dump Sites</i>					
None.	N/A	N/A	N/A	N/A	N/A
<i>Waste Tire Dump Sites</i>					
None.	N/A	N/A	N/A	N/A	N/A

N/A=Not available

Source(s) of information: Lorain County Health Department; City of Elyria Health Department; City of Lorain Health Department

**Table III-9
Ash, Foundry Sand, and Slag Disposal Sites Used by the District**

Site Location (describe briefly)	Land Owner Mailing Address/Phone	Description of Materials Dumped	Approximate Size of Site (in Acres)	Time Period Site has Existed
Westwood Facility S.R. 82 & 83 Grafton	FirstEnergy 6670 Beta Drive Mayfield Village, OH 44143 (216) 604-9874	Coal Ash	230	1994
Sterling Foundry 201 Erie St. Wellington, OH 44090	Sterling Foundry 201 Erie St. Wellington, OH 44091	Foundry Sand Bag House Dust Metal Fragments Slag General Refuse	8	1920's to present

Source(s) of information: Ohio EPA - Christopher Germain via email 6/3/2014

**Table III-10
Solid Waste Haulers Operating in the District**

Hauler	Mailing Address	Service Area	Materials Collected	Tons Collected from District	Name of Facility Used by Hauler
<i>Private Sector Haulers</i>					
Republic Services (Allied)	40195 Butternut Ridge Rd. Elyria, OH 44035 440-458-5191	Avon, Avon Lake, Amherst, Lorain, Carlisle, Grafton, LaGrange, North Ridgeville, Sheffield Lake, Sheffield, South Amherst, Vermilion, Wellington Numerous Townships	MSW and Recyclables	N/A	Lorain County Landfill
Waste Management Inc.	7450 Oakleaf Rd. East Cleveland, OH 44146 440-786-1300	Commercial and Industrial customers throughout Lorain County	MSW and Recyclables	616	Oakwood, Harvard, and Strongsville Transfer Facilities
Rumpke Waste Systems	3131 E Royalton Rd. Broadview Hts, OH 44147 (216) 386-4558	Residential and Commercial Customers in Amherst, Eaton Township, Grafton, Sheffield, Columbia Station, Elyria, Lorain, Avon, Wellington, and North Ridgeville	MSW and Recyclables	1,226	Broadview Heights Transfer Station, Greenstar
Mike's Hauling Services, LLC	36598 Center Ridge Rd. North Ridgeville, OH 44039	Residential customers in North Ridgeville, Avon, and Elyria	MSW	20	Fabrizi Disposal
<i>Public Sector Haulers</i>					
City of Elyria	328 Broad Street Elyria, OH 44035 216-322-9406	City of Elyria	MSW and Recyclables	19,965	Lorain County Landfill
City of Oberlin	85 S. Main Street Oberlin, OH 44074 440-775-7217	City of Oberlin	MSW and Recyclables	3,537	Lorain County Landfill
Total				25,363	

Source(s) of information: 2013 District Survey and Phone Survey

IV. Reference Year Population, Waste Generation and Waste Reduction [ORC Section 3734.53(A)(5)-(6)]

This section of the *Plan Update* presents information regarding the District's population, waste generation, and waste reduction estimates for the reference year.

A. Reference Year Population and Residential/Commercial Waste Generation

Table IV-1, "Reference Year Population and Residential/Commercial Generation," includes an estimate of the 2013 population for the District. The population estimate of 302,827 for Lorain County is from the Ohio Development Services Agency (ODSA) document *2013 Population Estimates by County, City, Village & Township*, May 2014. This population estimate does not include adjustments for political subdivisions located in more than one solid waste district.

Population Adjustments

The following adjustments were made for political subdivisions located partially within the District and partially within surrounding solid waste districts. In accordance with Ohio law, the entire population of political subdivisions located in more than one solid waste district was credited to the district containing the largest portion of the jurisdiction's population.

- The City of Vermilion had more than 50% of the population living inside Lorain County and less than 50% living inside Erie County. The population of the City of Vermilion in Erie County (4,679) was added to the District's population total.

The total adjusted population for the District in 2013 was 307,506.

B. Residential/Commercial Waste Generation

The District projected the 2013 residential/commercial waste generation using historical data, which is summarized in the following table:

Year	Waste + Recycling	Population	Per Capita Generation Rate (PPD)	Change in Per Capita Generation Rate
2009	283,297	304,444	5.10	
2010	295,672	306,098	5.29	3.66%

Year	Waste + Recycling	Population	Per Capita Generation Rate (PPD)	Change in Per Capita Generation Rate
2011	321,752	306,567	5.75	7.96%
2012	302,402	307,036	5.40	-6.56%
2009 – 2012 Average Per Capita Generation Rate:				1.69%

The reference year residential/commercial waste generation was calculating by increasing the per capita generation rate reported in 2012 (5.40 PPD) by the average annual rate of change in per capita residential/commercial waste generation from 2009 through 2012 (1.69%) based upon historical generation rates. Historical generation rates were based on tonnage reported on the Annual District Reports as well as population reported by the Ohio Development Services Agency. Population used to calculate per capita generation rates is different than the population reported in the District's annual reports because updated population estimates were released after the reports were submitted to Ohio EPA.

The 2013 per capita residential/commercial waste generation projection was 5.49 pounds per person per day. Table IV-1 shows the formula used for estimating the residential/commercial waste generation. This methodology calculated the District's residential/commercial waste generation to be 307,981 tons in 2013. This estimate is approximately 19,000 tons more than the 289,114 tons of residential/commercial waste generated that was recorded by landfills, incinerators, and transfer stations for 2013 (214,534 tons) plus reported recycling and source reduction activities for 2013 (74,577 tons). For further discussion on reconciling the waste generation values, see Section IV.H of this *Plan Update*.

C. Industrial Waste Generation

The District conducted an Industrial Survey in 2013 to support this *Plan Update*. Copies of the commercial and industrial survey forms and a summary of industrial survey results are included in Appendix F. Table IV-2 presents the results of the District's 2013 Industrial Survey. The District used information from industries responding to the survey as well as Appendix JJ of the Ohio EPA Plan format to estimate the total waste generated by the industrial sector in the District during 2013.

The District identified a total of 442 industries in SIC codes 20 and 22-39. Approximately 11% of the industries (47) responded to the survey. Almost 9,200 (or 39%) of the total number of employees were represented by the survey results. Approximately 92,300 tons of waste generation were reported in the surveys.

The following table presents the types of industries that reported the largest per capita solid waste generation rates:

SIC Code	Description	Solid Waste Generation Rate (Tons/Employee)	Total Tons Reported on Survey
33	Primary Metal Industries	47.77	80,444
39	Miscellaneous Manufacturing Industries	4.83	3,765
28	Chemicals And Allied Products	4.74	223
34	Fabricated Metal Products, Except Machinery And Transportation Equipment	3.76	3,151

Three of the four types of industries (SIC codes 33, 29, and 34) that reported the highest per capita solid waste generation rates also had the highest overall tons reported. Industries with a SIC code of 38 (Measuring, Analyzing, and Controlling Instruments; Photographic, Medical and Optical Goods; Watches and Clocks) did not report notably high per capita solid waste generation rates, but industries in this category were among to the highest in terms of total tons reported, which was 1,358 tons.

The District calculated the generation rate and tons of waste generated per employee for each SIC code from the survey respondents. Then the District calculated the amount of industrial waste generated for survey non-respondents. For those industries that did not respond, the District used the generation rate from Appendix JJ of the Ohio EPA Plan Format to estimate total waste generated. Using this projection methodology, a total of 131,583 tons of industrial waste was generated in the District from non-responding industries. The resulting total is 223,897 tons generated by both responding and non-responding industries.

D. Exempt Waste

Exempt waste is material that is not defined as solid waste, such as construction and demolition debris. Exempt wastes can be managed in landfills that have different and often less stringent environmental control requirements. Table IV-3 shows that the total exempt waste generated by the District was 112,972 tons. This includes the exempt waste reported by the landfills and transfer stations receiving the District's waste in Table III-1. The generation rate was 2.01 pounds per person per day.

All except 142 tons of exempt waste originating from Lorain County was directly hauled to a solid waste landfill. In addition, the Lorain County Landfill received nearly all (98.9%) of the District's exempt waste. The total

exempt waste disposed is likely to fluctuate depending upon the business cycle from year to year. Looking at historical trends, the amount of exempt waste generated in the District has decreased more than 17,000 tons since 2010. Despite the notable decrease in tonnage, exempt waste still represents a significant portion of the District's overall waste generation.

E. Total Waste Generation

Table IV-4, "Reference Year Total Waste Generation for the District," presents the total waste generated using District data and statewide projections. Using these sources of information, the District estimated that approximately 644,851 tons of waste was generated in 2013. The total generation rate is calculated to be 11.49 pounds per person per day. This included 307,981 tons (Table IV-1) of residential/commercial waste, 223,897 tons (Table IV-2) of industrial waste, and 112,972 tons (Table IV-3) of exempt waste. The total waste generation listed in Table IV-4 is approximately 104,325 tons more than the total in Table IV-8 (540,526 tons) as calculated using tonnage reported by disposal facilities and tonnage reported from recycling and waste reduction activities. For further discussion on reconciling the waste generation values, see Section IV.H.

F. Reference Year Waste Reduction

The District surveyed communities, businesses, recycling facilities, haulers and brokers to obtain data on residential, commercial/institutional and industrial recycling in 2013. The residential/commercial waste reduction reported in Table IV-5 and industrial waste reduction reported on Table IV-6 was obtained from these surveys as reported in the Annual District Report. The District was careful to eliminate double counting as described in the sections below.

Residential Data

The District requires cities, villages and townships to annually report quantities of recyclable materials as a condition to participate in the Community Incentive Grant program. In 2013, communities in Lorain County continued to use the web-based data management system, Re-TRAC Connect to enter data throughout the year on recycling, solid waste and composting activities. The District works with the communities to ensure that they are entering data quarterly and cross references tonnage totals with reports from haulers to ensure that they are entering data correctly.

Each spring, once it is determined that the rate of community response is adequate, the data is reviewed for accuracy. The data reported directly by

the communities for the Community Incentive Grant program was the only information used to calculate residential recycling for the Annual District Report submitted in June 2013 and for this *Plan Update*. Survey results from recyclers were not included in the tabulation of residential recycling.

Commercial, Institutional, and Industrial Data

A survey of commercial businesses was completed by the District in the spring of 2014 to gather recycling and disposal data for the District in 2013. The District used a mail house to send survey requests directing individuals to the Re-TRAC Connect system via the U.S. Postal Service. Commercial businesses and institutions in SIC codes 42-45, 47-65, 67, 70, 73, 78-84, 86, 87, and 91-95 and industries in SIC codes 20 and 22-39 received a survey request. Follow-up emails were sent to commercial, institutional, and industrial entities if they provided contact information on a previous survey. The results of these individual surveys were used to compile recycling by commercial, institutional and industrial facilities. Recycling tonnage from processors, brokers or haulers was not blended with generator data to calculate the 2013 recycling tonnage. As an additional step in assuring quality data, the destination of recycled materials reported on surveys was reviewed to ensure that tonnage was not double-counted.

Residential/Commercial Waste Reduction

Table IV-5, "Reference Year Residential/Commercial Waste Reduction in the District," shows that the District reduced/recycled 74,577 tons of residential/commercial waste in 2013. The material recycled within the District in the greatest amount during 2013 was composted yard waste (37,237 tons). The yard waste accounted for approximately 50% of the District's residential/commercial recycled material in 2013. This percentage was an increase over the previous years for two reasons: the amount yard waste composted has increased and the reported residential/commercial reduction and recycling has decreased.

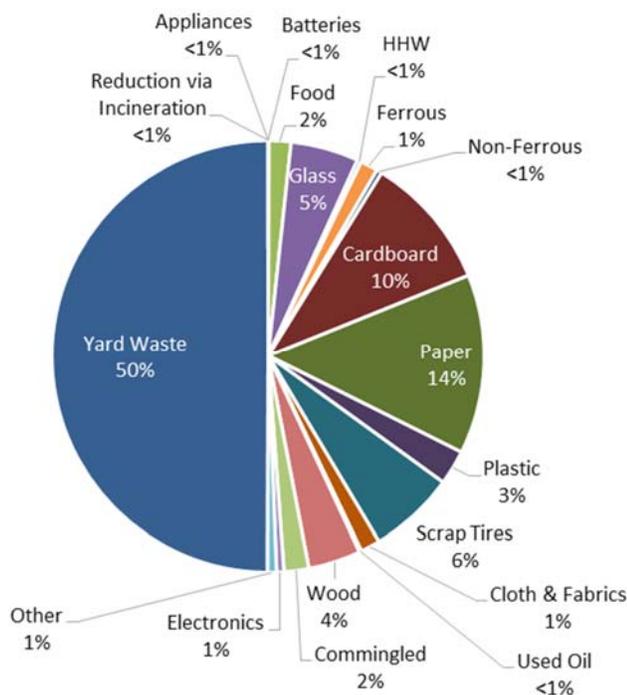
Other large components of residential/commercial recycling include paper (10,069 tons), cardboard (7,509 tons), scrap tires (4,820 tons) and glass (3,794 tons). The following table summarizes the residential and commercial recycling totals by commodity:

Commodity	2013 Tons
Yard Waste	37,237
Paper	10,069
Cardboard	7,509
Scrap Tires	4,820
Glass	3,794
Wood	2,916

Commodity	2013 Tons
Plastic	1,935
Commingled	1,381
Food	1,227
Cloth & Fabrics	1,090
Ferrous	981
Other	518
Electronics	406
Non-Ferrous	296
HHW	226
Used Oil	124
Batteries	42
Reduction via Incineration	5
Appliances	2
Total	74,577

The following figure depicts the waste reduction percentages for the residential/commercial sector.

Residential/Commercial Waste Reduction: 2013



Industrial Waste Reduction

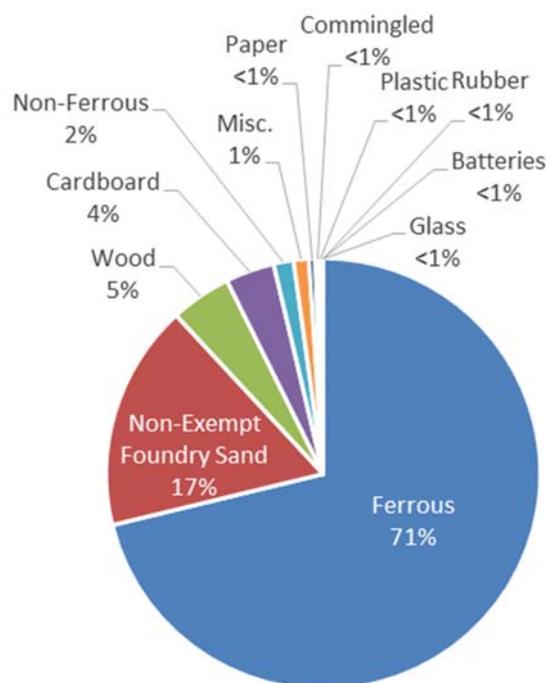
Table IV-6, "Reference Year Industrial Waste Reduction in the District" shows that the District reduced/recycled 90,589 tons of industrial waste in

2013. Ferrous metals (64,484 tons) accounted for over 71% of the industrial sector recycling. Non-exempt foundry sand (15,377 tons) is the second largest component comprising approximately 17% of industrial reduction/recycling. The following table summarizes the industrial recycling totals by commodity:

Commodity	2013 Tons
Ferrous	64,484
Non-Exempt Foundry Sand	15,377
Wood	4,103
Cardboard	3,300
Non-Ferrous	1,341
Misc.	1,034
Paper	415
Commingled	269
Plastic	206
Rubber	57
Batteries	3
Glass	1
Total	90,589

The following figure presents the commodities recycled by the industrial sector in 2013.

Industrial Waste Reduction in the District: 2013



G. Existing Waste Reduction/Recycling Activities for Residential, Commercial and Industrial Sectors

The strengths and challenges of District programs are presented following each program description.

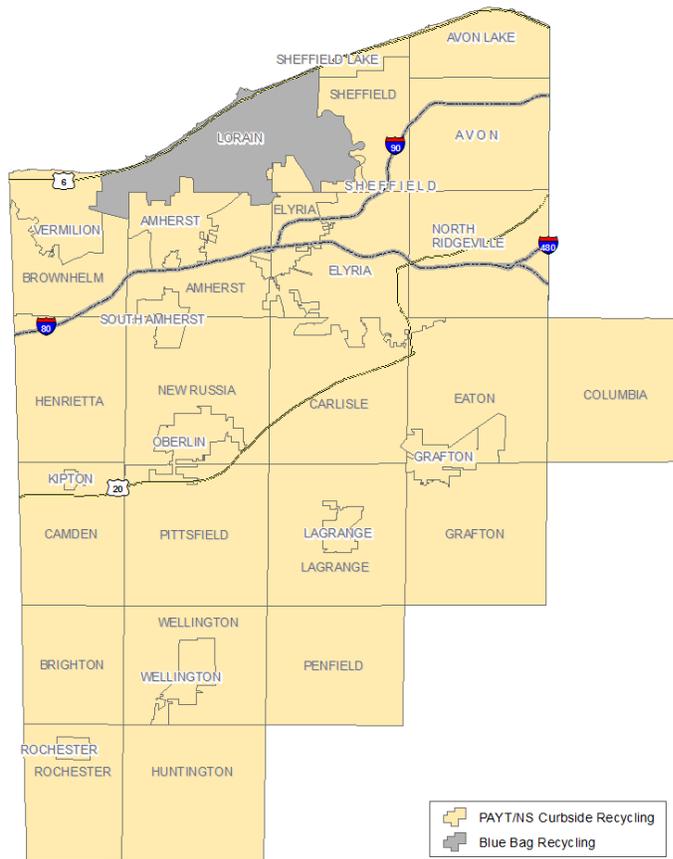
RESIDENTIAL/COMMERCIAL RECYCLING AND COLLECTION PROGRAMS

Political subdivisions are responsible for developing and implementing recycling programs. The District provides financial resources, technical assistance, solid waste management expertise and other consulting services to political subdivisions, businesses, residents, haulers and policymakers. The following recycling efforts were in operation in 2013.

1. Non-Subscription Curbside Recycling

In 2013, there were thirty-four non-subscription curbside programs operating in the District. The following figure presents the coverage and type of curbside recycling programs throughout the District.

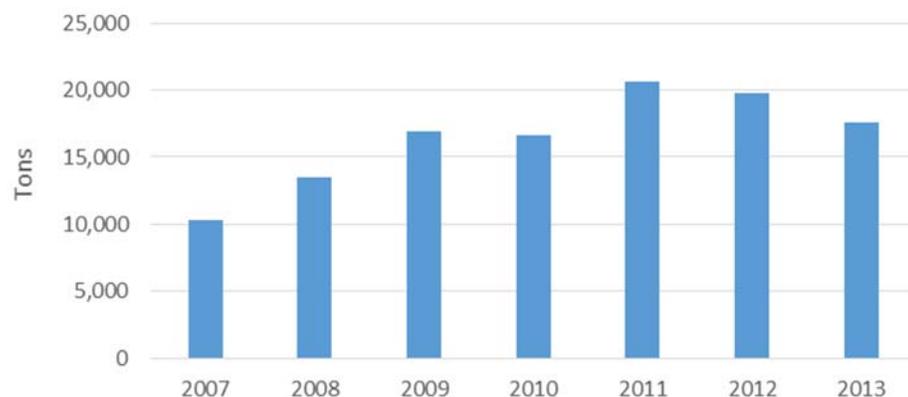
2013 Curbside Recycling Programs



With the exception of the City of Lorain, all of those programs were volume-based systems (VBS), also known as pay-as-you-throw/non-subscription based curbside recycling systems (PAYT/NS).

Each political subdivision was responsible for maintaining its own program within its own jurisdiction. In 2013, the non-subscription programs reported collecting 17,546 tons of recyclable materials. The following figure shows the historical trend in collection from non-subscription curbside programs in the District.

Recyclables Collected from Non-Subscription Curbside Programs



Although experiencing an overall decline in the tons collected in 2012 and 2013, the District has increased the amount of recycling from these communities more than 70 percent from 2007 through 2013. The following factors likely caused the 2013 decrease in tonnage:

- Lorain County Recyclery was temporarily closed to be remodeled and expanded. Tonnage was exported out-of-District to Kimble and Greenstar during this time and may not have been reported.
- A waste and recycling consortium was established and a number of communities had to transition to a slightly different system for curbside recycling.
- The City of Oberlin had a fire that destroyed all recycling and refuse collection vehicles. During the interim, the City unfortunately had to discontinue processing of curbside recyclables.

The District anticipates that moving forward, curbside recycling totals will increase naturally.

The communities that operate VBS in conjunction with non-subscription curbside recycling primarily use the cart system. Typically, a 96 gallon cart is supplied by the hauler. Several communities have also selected a second cart for recyclables. This is preferable to the blue bag system because it is more convenient for residents, it is more aesthetically pleasing, and it allows for automated trash collection and recycling collection. Automated collection requires only one driver who uses an automated arm to lift carts and empty the contents into a packer truck. Automated collection is significantly more time efficient than manual or semi-automated collection and safer for collection crews.

The City of Oberlin has used a variation of the VBS by allowing residents to set out a maximum of three 32-gallon containers per week. For residents needing collection of additional trash, bags may be set out at a charge of \$1 per bag. For recycling, metal cans, glass bottles, and plastic containers must be placed into one of three 5-gallon plastic buckets. Cardboard and mixed paper must be bundled separately and placed at the curb with the other recyclables.¹

The District implemented a financial incentive program to encourage communities to transition to a VBS. Special incentive funding was provided for any community that passed a resolution by January 1, 2010 indicating they would make the conversion to a VBS program. Larger communities were presented with an option to switch the entire political subdivision to the VBS or implement a two-year pilot study on one route. This program was completed in 2012, and resulted in all but one political subdivision in the county switching to a VBS. The grant program was restructured after 2012 to focus on increasing curbside recycling tonnage (see LC-17).

The following table summarizes the operation of the program in the reference year:

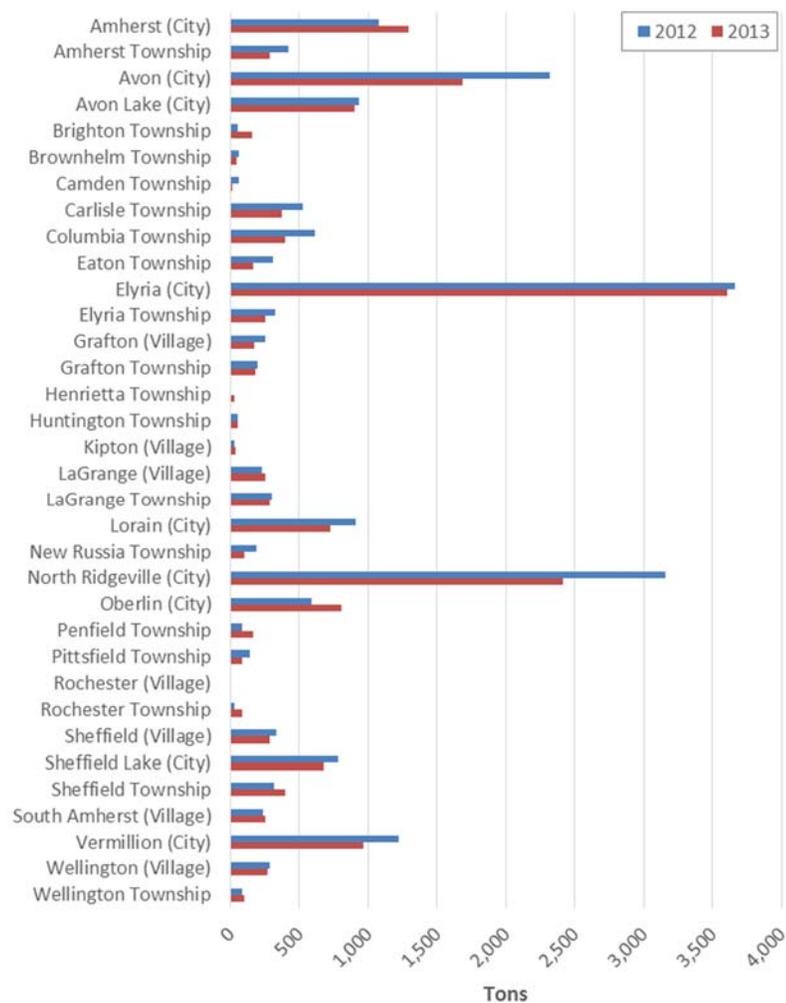
Curbside Recycling Program Summary	
Description	Details
District Budget Number	LC-1
OEPA Program Number	6695-6703, 6705-6719, 8510, 8511, 8520-8524, 8893
Entity Responsible for Maintaining Program	34 Lorain County Political Subdivisions
Service Area for Program	Lorain County

¹ In 2014, Oberlin City Council adopted a “Zero Waste Plan” which includes automated collection of trash and recyclables using carts. See pages IV-50-51 for further discussion of the Zero Waste Plan.

Curbside Recycling Program Summary	
Description	Details
Materials Reduced/Recycled	Steel cans, glass, plastic, newspaper, paperboard, magazines, cardboard and other metals
2013 Recycled Tonnage	17,546
2013 Program Costs	Varies by Political Subdivision
Program Operator/Contractor	Republic, City of Elyria, City of Oberlin

The following figure presents the recycling tonnages collected in 2012 and 2013 from communities in the District operating non-subscription curbside programs. The majority of these programs collected less recyclables in 2013 compared to 2012.

2012-2013 Tons Collected from Curbside Recycling



The strengths of the Curbside Recycling program include:

- Political subdivisions that have switched to the VBS have shown significant increases in recycling.
- Almost every city and village has a non-subscription program.
- Expansion of materials collected in VBS political subdivisions.
- Local recycling facility in the District.

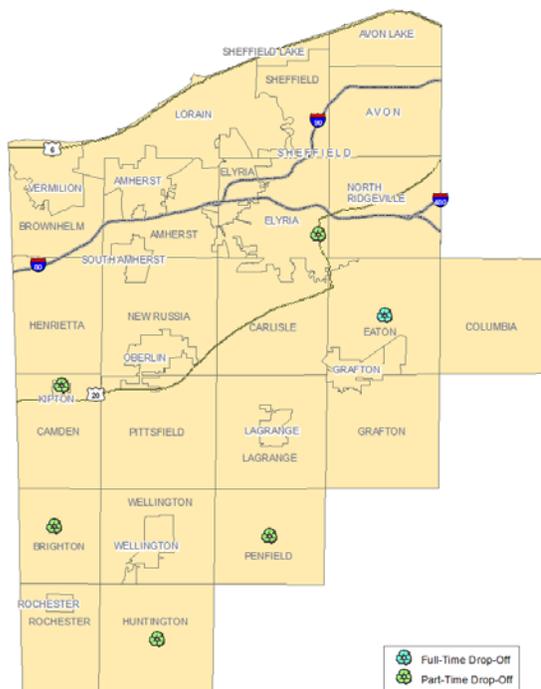
The challenges of the Curbside Recycling program include:

- Lack of service for multi-family units.
- Inconsistent participation rates.
- Inconsistent communications to residential customers.

2. Drop-off Recycling

Six drop-off locations collected materials in 2013. All locations accepted aluminum, bi-metal, plastic, glass and newspaper. The following figure presents the locations of drop-offs located throughout the District.

2013 District Drop-Offs



One drop-off operated on a full-time basis, meaning it was accessible to residents for 40 or more hours per week, and five drop-offs operated on a part-time basis. Five of the drop-offs were owned, operated, and maintained by individual townships. Some of the townships use private operators to manage the drop-offs. The District continued to operate a part-time drop-off at the Lorain County Collection Center (see page IV-17 for further discussion of the Collection Center).

A total of 269 paper retriever bins placed in various locations throughout the County by Abitibi Consolidated resulted in the collection of more than 2,700 tons of paper. Finally, four EcoRewards containers collected 23 tons of mixed recyclables in 2013.

The following table summarizes the operation of the drop-off program in the reference year:

Drop-off Recycling Program Summary	
Description	Details
District Budget Number	LC-2
OEPA Program Number	6720, 6759, 6760, 6761, 8512-8514, 8517, 8519
Entity Responsible for Maintaining Program	Lorain County Political Subdivisions, Abitibi, District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Aluminum and steel cans, glass, plastic, newspaper
2013 Recycled Tonnage	Included in curbside program totals
2013 Program Costs	District drop-off costs are included in Collection Center Costs
Program Operator/Contractor	Political subdivisions, Abitibi, District

The strengths of the Drop-off Recycling program include:

- Convenient locations for residents that do not have access to non-subscription curbside recycling.
- The District's drop-off at the Collection Center offers more types of materials to be recycled than curbside programs.

- Townships are responsible for local promotion of drop-offs, which is accomplished through newsletters, which are mailed directly to residents, as well as township websites.

The challenges of the Drop-off Recycling program include:

- Drop-off hours are limited in some cases.
- Not as convenient as curbside program.
- There are no drop-offs located in a number of urban areas (political subdivisions with populations of more than 5,000 residents)

3. Yard Waste Management

The District had a comprehensive program for managing yard waste. There were 12 registered public and private compost facilities operating within Lorain County, and the District also utilized four out-of-district facilities for yard waste management. These facilities processed a total of 37,387 tons of yard waste and municipal wood waste in the reference year. The District did not operate a yard waste management facility in 2013. The following figure presents the yard waste facilities that operated within the District during the reference year:

2013 Lorain County Yard Waste Facilities



In 2013, the following organized yard waste collection programs operated:

2013 Yard Waste Collection Programs

Community	Program	Operator
City of Amherst	Seasonal weekly curbside collection (spring, summer, and fall)	Republic
Amherst Township	Free drop-off for township residents at 7530 Oberlin Rd., Elyria, OH open M-F 8AM-3PM and Sat. 8AM-11AM.	Township
City of Avon	Seasonal weekly curbside collection April – December	Republic
City of Avon Lake	Seasonal weekly curbside collection	Republic
	Leaf pick-up late October – mid-December	City
Carlisle Township	Seasonal leaf collection	City and Jay's Landscaping
Eaton Township	Free yard waste drop-off for township residents open Sat. 10AM-4PM mid-April – November	Township
City of Elyria	Seasonal curbside collection	City
	Free drop-off for city residents at 45 Chestnut St. from April - December	Barnes Nursery
Village of Grafton	Seasonal weekly curbside yard waste and brush collection April – November	Republic
Village of LaGrange	Seasonal weekly curbside collection April – November	Republic
LaGrange Township	Brush and wood waste collection and mulching (as needed basis)	Township
City of Lorain	Seasonal leaf collection	City
	Free leaf drop-off for city residents at 3000 E. 28 th St.	City
City of North Ridgeville	Seasonal weekly curbside collection April – November	Republic
City of Oberlin	Seasonal weekly curbside collection; residents must purchase \$1.00 tags for each yard waste bag	City

Community	Program	Operator
Sheffield Township	Seasonal leaf and brush collection	Township
City of Sheffield Lake	Seasonal weekly curbside collection	Republic
City of Vermillion	Seasonal weekly curbside collection (fall/spring)	Republic

During 2013, the District issued a Request for Proposals (RFP) for an organics processing facility to be sited and operated within the District. Two proposals were received and the Policy Committee recently authorized discussions to begin with one of the respondents. Negotiations on locations and technology to be used at the facility will be completed in 2014. It is envisioned that this facility will manage both yard waste and food waste generated within Lorain County, and that the District will provide a to-be-determined amount of funding for the project.

The District continued to work with the Ohio State University Agricultural Agent to provide education on the advantages and benefits of composting and vermicomposting (worm composting), and continued to fund a portion of the Agent's salary. In 2013, the Agricultural Agent made presentations to local schools, fairs and community organizations, and participated in a radio program. The District encourages residents within the District to mulch grass clippings and engage in backyard composting through presentations and brochures. The following table summarizes the operation of the program in the reference year:

Yard Waste Management Program Summary	
Description	Details
District Budget Number	LC-3
OEPA Program Number	6723
Entity Responsible for Maintaining Program	Lorain County Political Subdivisions
Service Area for Program	Lorain County
Materials Reduced/Recycled	Leaves, brush, grass, brush, yard waste
2013 Recycled Tonnage	37,387 ²
2013 Program Costs	\$17,400 for Ag Agent
Program Operator/Contractor	Various Private Sector Facilities, Political Subdivisions, and OSU Ag. Agent

² A total of 38,347 tons of organics was composted by facilities which received yard waste and food waste from the District.

The strengths of the Yard Waste Management program include:

- The County Agricultural Agent provides a comprehensive education program to students.
- The organics management facility contracted to be developed in 2014 will provide additional processing capacity for yard waste within the District.

The challenges of the Yard Waste Management program include:

- Accurate data collection remains a weak point of the program for both the residential programs and the compost facilities.
- Limited access to yard waste recycling.
- Food waste organics currently are required to leave the District for processing.

4. Household Hazardous Waste (HHW) Collection – The Lorain County Collection Center



In response to the challenges for the HHW program identified in the last Plan Update, the District developed the Lorain County Collection Center ("Collection Center"), and began operating this facility in June 2010. This facility is available for all District residents. In addition to HHW, the Collection Center also accepts: residential recyclables, scrap tires, rechargeable batteries, ballasts, scrap metal, books, paper, cardboard, fluorescent bulbs, and electronics.

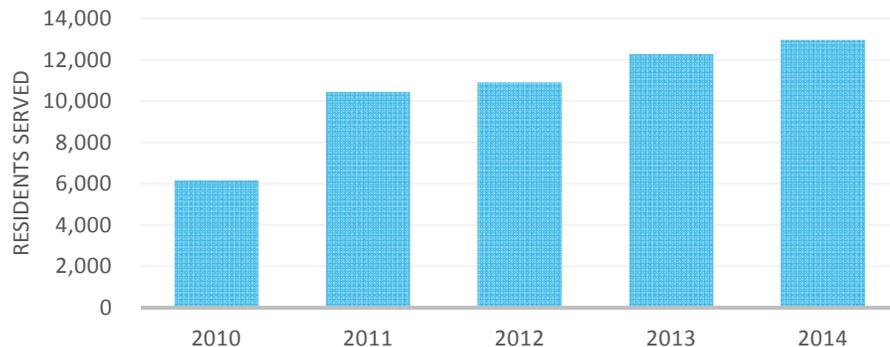
The Collection Center has not only provided residents a convenient, accessible option for managing HHW and other specialized materials, but also allowed the District to eliminate separate collection programs which were previously held a limited number of times each year for items such as batteries, electronics, and scrap tires. Electronics, rechargeable batteries, and other materials were

also collected by a number of businesses, organizations, and political subdivisions in 2013.

In 2013, the District was nationally recognized when it received a SWANA Excellence Award in the Special Waste Management Division. SWANA Excellence Awards represent the best solid waste management practices in North America. The District was judged by a board of peers and selected to be an award recipient.

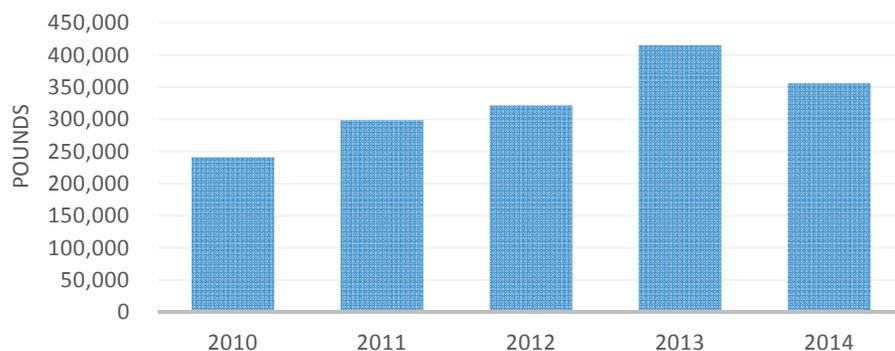
Since the Center opened in 2010, it has consistently increased the total number of residents served annually. The following figure presents the total residents served at the Collection Center each year:

2010 – 2014 Residents Served at Collection Center

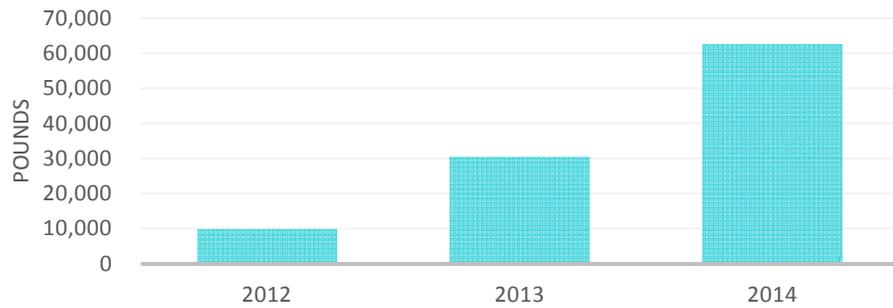


The following figures present the total materials collected each year since the Collection Center has been operating. Figures that begin with dates after 2010 indicate materials that began being accepted after the Collection Center opened.

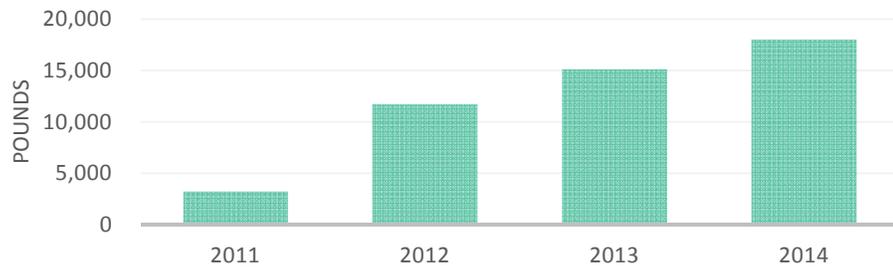
2010 – 2014 HHW Collection



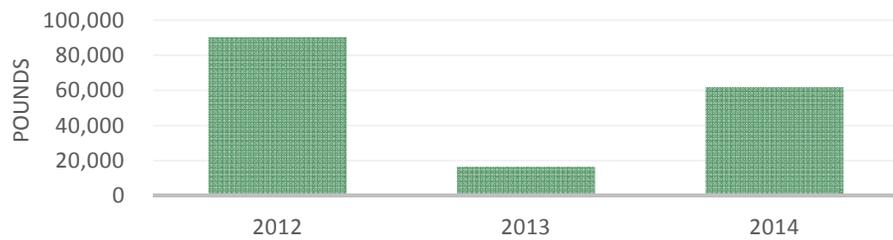
2012 – 2014 Cardboard Collection



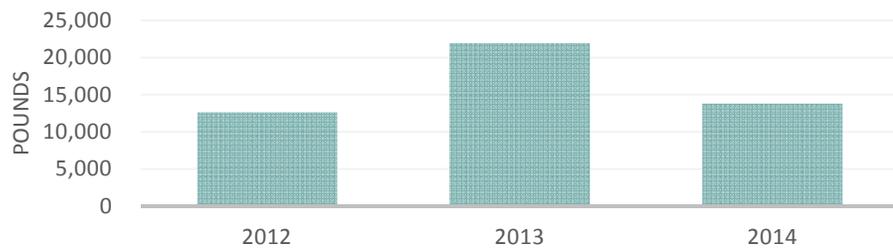
2011 – 2014 Rechargeable Battery Collection



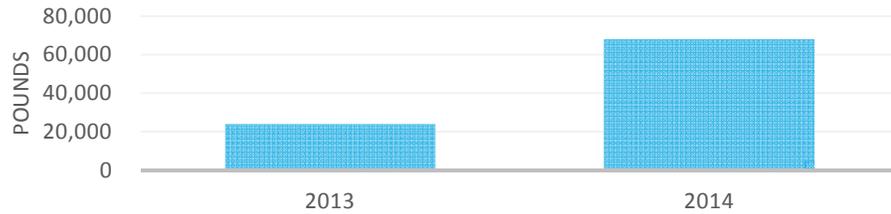
2011 – 2014 Book and Paper Collection



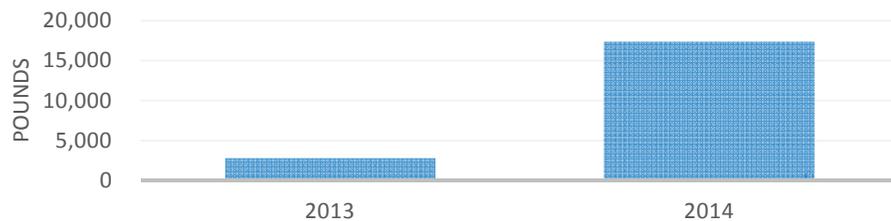
2012 – 2014 Scrap Metal Collection



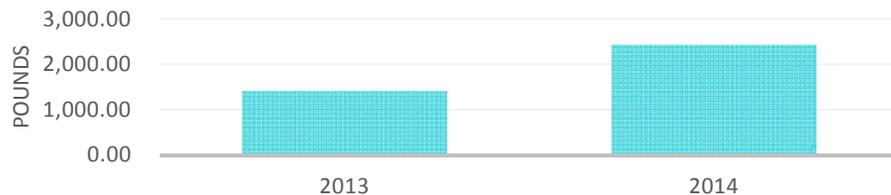
2013 – 2014 Mixed Residential Recycling Collection



2013 – 2014 Used Motor Oil Collection



2013 – 2014 Used Cooking Oil Collection



The HHW Collection program budget provided in the following table includes the cost of maintaining the following materials at the Collection Center:

Material
Rechargeable batteries
Books and paper
HHW
Cardboard
Scrap metal
Motor oil
Vegetable oil
Residential recycling (plastic, aluminum, steel, and glass containers and mixed paper)

Budgets for other programs that operate out of the Collection Center, such as the Electronics Recycling program (LC-5) or the Printer

Cartridge and Cell Phone Recycling program (LC-6) are listed separately. The following table summarizes the operation of the program in the reference year, and the tonnages in the table reflect the amount collected from the Collection Center as well as other in-district sources:

HHW Collection Program Summary	
Description	Details
District Budget Number	LC-4
OEPA Program Number	6724, 6734, 8514
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Paints, solvents, pesticides, herbicides, poisons, cleaners, used oil, propane tanks, lead-acid batteries, electronics, rechargeable batteries, mercury-containing devices, scrap tires, and other materials
2013 Recycled Tonnage	15 (Cardboard) 11 (Scrap metal) 217 (HHW only; Other materials collected at the Collection Center are listed in separate program tables)
2013 Program Costs	\$129,834
Program Operator/Contractor	Solid Waste District Chemtron Corp.

The strengths of the HHW Collection program include:

- Multiple HHW materials are collected.
- Materials in addition to HHW are accepted.
- Participation in the program is excellent.
- Facility is available to residents year-round.

The challenges of the HHW Collection program include:

- Preventing businesses from abusing the Collection Center’s programs that are intended only for residents.
- Maintaining properly trained staff

5. Electronics Recycling



The District accepts electronics at the Collection Center. Residents with small loads of electronic waste (less than 12 pieces) can drop off items anytime the Collection Center is open. Individuals with larger loads are required to prepackage the items and contact the District. The

District provides pallets, Gaylord boxes, stretch wrap, and other supplies for packaging e-waste at no charge.

The District requires its e-waste recycling contractor to assemble up to 150 refurbished computers annually from materials received at the Collection Center. The functioning, refurbished computers are distributed to qualified organizations upon request. All organizations except private, for-profit businesses may apply. This includes, but is not limited to, local governments, public schools, private schools (if they have non-profit status), libraries, churches, charitable groups, and other non-profit organizations. Groups must be able to demonstrate that they are considered a non-profit by the IRS, under Regulation 501(3)(c), or any similar regulation, in the U.S. Tax Code.

Goodwill also accepted e-waste from residents. The District promoted Goodwill on its website. The following table summarizes the operation of the program in the reference year, and the tonnages in the table reflect the amount collected from the Collection Center as well as other in-district sources:

Electronics Recycling Program Summary	
Description	Details
District Budget Number	LC-5
OEPA Program Number	6726
Entity Responsible for Maintaining Program	District

Electronics Recycling Program Summary	
Description	Details
Service Area for Program	Lorain County
Materials Reduced/Recycled	E-waste (computers, TVs, office equipment)
2013 Recycled Tonnage	406 (296 from the Collection Center)
2013 Program Costs	\$47,773
Program Operator/Contractor	RET 3 Job Corp.

The strengths of the Electronics Recycling program include:

- Participation in the program is excellent.
- Facility is available to residents year-round.
- Provides assistance to individuals and businesses with larger and small quantities of e-waste.
- Reduces the amount of e-waste generated by refurbishing computers using recycled components.
- Provides electronic equipment to local not-for-profit organizations.

The challenges of the Electronics Recycling program include:

- The District has not identified any viable recycling opportunities for console televisions or televisions with a screen greater than 27”.

6. Printer Cartridge and Cell Phone Recycling



The District continued its partnership with the Lorain County Office on Aging to collect used printer cartridges and cell phones throughout the County. The program was available to any business or organization that would like to participate. Cell phones and ink cartridges were gathered from residents and businesses at the Collection Center and packaged and then marketed by volunteers with the Lorain County Office on Aging.

These materials are shipped to a recycling vendor which puts new ink in the cartridges and makes them available for sale.

The Office on Aging receives revenue from the recycling vendor for each printer cartridge, and the revenue is used to support the Office on Aging programs to aid senior citizens in Lorain County. The following table summarizes the operation of the program in the reference year:

Printer Cartridge and Cell Phone Recycling Program Summary	
Description	Details
District Budget Number	LC-6
OEPA Program Number	6727
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Printer cartridges, cell phones
2013 Number Recycled	588 printer cartridges 911 cell phones
2013 Program Costs	\$0
Program Operator/Contractor	Collect Inc. and other vendors

The strengths of the Printer Cartridge and Cell Phone Recycling program include:

- The program provides income to the Lorain County Office on Aging.
- The program encourages seniors to participate in recycling.
- Reduces the amount of printer cartridges and other materials landfilled through re-use or recycling.

The challenges of the Printer Cartridge and Cell Phone Recycling program include:

- None.

7. Scrap Tire Collection

The District continued to provide residents with several options for managing scrap tires to reduce their potential impact on the environment. Lorain County residents were able to drop off scrap tires to the Lorain County Collection Center, or deliver them to one of the other permanent drop-off sites within the District (Lorain City Garage or Grafton Township Hall). There was no charge to Lorain County residents for the disposal of scrap tires.



A total of 341 tons of scrap tires were collected and recycled at the permanent drop-off sites. Fifteen different tire recyclers and tire dealers located in Lorain County and surrounding counties also accepted scrap tires from Lorain County residents. The total amount of scrap tires collected and processed by District programs and tire dealers was 4,820 tons. The following table summarizes the operation of the program in the reference year:

Scrap Tire Collection Program Summary	
Description	Details
District Budget Number	LC-7
OEPA Program Number	6728
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Passenger and light truck tires
2013 Recycled Tonnage	4,820 (341 from the Collection Center)
2013 Program Costs	\$27,340
Program Operator/Contractor	Liberty Tire

The strengths of the Scrap Tire Collection program include:

- Residents can bring scrap tires to one of the permanent drop-off sites throughout the year, or deliver tires to a designated scrap tire recycler or tire dealer.
- The amount of scrap tires recycled and not disposed in landfills is increasing.

- Provides an alternative to dumping tires and reduces risks from fire and mosquitoes.

The challenges of the Scrap Tire Collection program include:

- This program is expensive to operate.
- Tire retailers receive a fee from consumers to manage scrap tires when a new tire is purchased and an old tire must be disposed. The District suspects that some tire retailers are keeping the fee and delivering scrap tires to the District's scrap tire collection sites. Stopping tire retailers from abusing the District's program is a challenge.

8. Appliance Recycling

The Lorain County Collection Center accepted microwave ovens. The District also maintained an up-to-date listing of establishments that have certified Freon recovery programs. The following table summarizes the operation of the program in the reference year:

Appliance Recycling Program Summary	
Description	Details
District Budget Number	LC-8
OEPA Program Number	6729
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Microwave ovens
2013 Recycled Tonnage	2
2013 Program Costs	\$0
Program Operator/Contractor	District, privately owned appliance recyclers

The strengths of the Appliance Recycling program include:

- Residents are informed about resources available to dispose of broken or old appliances.
- The District offers technical assistance on the proper handling and recycling of appliances.
- The program is offered throughout the year.

The challenges of the Appliance Recycling program include:

- Finding new ways to promote the program and reaching out to a broader audience.
- Making sure the list of companies is up-to-date.

9. Phone Book Recycling

Phone books and other books were accepted for recycling at the Collection Center and Abitibi Paper Retriever bins (260) located throughout Lorain County. The following table summarizes the operation of the program in the reference year:

Phone Book Recycling Program Summary	
Description	Details
District Budget Number	LC-9
OEPA Program Number	6730
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Phone books, books, catalogs
2013 Recycled Tonnage	8.31 (Collection Center)
2013 Program Cost	\$0
Program Operator/Contractor	Better World Books, Abitibi

The strengths of the Phone Book Recycling program include:

- Collects a material that is not collected in regular recycling programs.

The challenges of the Phone Book Recycling program include:

- None.

10. Fluorescent Bulb and Ballast Recycling

The District collected and recycled fluorescent and high intensity discharge (HID) light bulbs and their ballasts as well as compact fluorescent lamps (CFLs) at the Collection Center in 2013. Compact fluorescent lamps have become increasingly used in recent years. The collected material was repackaged to conform to the EPA Universal Waste Rules, and transported to a certified recycling contractor in Bowling Green, Ohio. In 2013, the Collection Center

recycled approximately 12 tons of ballasts and 15 tons of lamps. Businesses and organizations are the primary source of these materials. The following table summarizes the operation of the program in the reference year:

Fluorescent Bulb and Ballast Recycling Program Summary	
Description	Details
District Budget Number	LC-10
OEPA Program Number	6731
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Fluorescent bulbs, ballasts, and lamps
2013 Recycled Tonnage	27
2013 Program Costs	\$44,235
Program Operator/Contractor	Environmental Recycling Group of Bowling Green

The strengths of the Fluorescent Bulb and Ballast Recycling program include:

- The program addresses a key need of local area businesses and government for these materials.
- Allows for year around recycling for these materials.
- Provides residents with a safe way to dispose of CFL bulbs used in their home.

The challenges of the Fluorescent Bulb and Ballast Recycling program include:

- The program is costly and reduces a small percentage of the overall waste stream.

11. Commercial Sector Paper Recycling

The District obtained 22-gallon recycling bins for no cost through an initiative sponsored by the Alcoa Foundation. Similar containers retail for approximately \$13.00 per bin. The District provides these recycling bins to organizations to collect paper for recycling upon request when containers are available. In 2013, the District provided 7 green Alcoa bins to organizations, resulting in the collection and recycling of 580.5 pounds of paper.

The District also promoted a variety of programs available to the commercial sector for paper recycling, including the following:

- The District and County offices recycled 15 tons of paper with proceeds going to the Office on Aging.
- Abitibi’s Paper Retriever program: Provides free access to paper recycling drop-offs at more than 260 locations throughout the county.
- Abitibi Eco-Rewards program: Provides businesses with single stream recycling drop-off and provides monetary incentives to host business for recycling.
- Republic Waste Services for commercial/industrial sector.

In 2013, the Paper Retriever program collected 2,734 tons of paper. The EcoRewards program was used by 4 businesses and collected a total of 23 tons of paper and other materials. The following table summarizes the operation of the program in the reference year:

Commercial Sector Paper Recycling Program Summary	
Description	Details
District Budget Number	LC-11
OEPA Program Number	6732
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Paper
2013 Recycled Tonnage (Abitibi, Republic, and District Alcoa Bin Programs)	3,132
2013 Program Costs	\$0
Program Operator/Contractor	Abitibi, Republic, District

The strengths of the Commercial Sector Paper Recycling program include:

- A significant amount of paper is recycled in this program that would not have been collected through the District’s mixed recyclable drop-offs and curbside programs.

The challenges of the Commercial Sector Paper Recycling program include:

- Program promotion.

- Cost of containers is high and affects the ability of the District to provide enough containers. There were no costs for 2013 because the District distributed previously purchased bins.

12. Specialized Bottle/Can Collection

Upon request, the District provided schools, businesses, and organizations with containers designed to collect bottles and cans for recycling. In 2013, three organizations requested bins. The following table summarizes the operation of the program in the reference year:

Specialized Bottle/Can Collection Program Summary	
Description	Details
District Budget Number	LC-12
OEPA Program Number	6733
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	PETE, HDPE, Aluminum, Glass
2013 Recycled Tonnage	N/A
2013 Program Costs	\$0
Program Operator/Contractor	Determined by participant

The strengths of the Specialized Bottle/Can Collection program include:

- District provides collection containers for entities that would like to recycle bottles and cans.

The challenges of the Specialized Bottle/Can Collection program include:

- Program promotion.
- Cost of recycling containers. There were no costs listed for 2013 because previously purchased bins were distributed.
- Difficulty determining the amount of bottles and cans collected.

RESIDENTIAL/COMMERCIAL EDUCATION AND AWARENESS PROGRAMS

1. Residential Recycling Education

The District conducted a recycling education program for residents in Lorain County. The following section summarizes the 2013 education and awareness program:

Brochures

The District maintains a variety of flyers on source reduction, recycling, and composting. These brochures are updated on an as-needed basis and distributed at community events including the County Fair, the Labor Festival, the Apple Festival, and the Senior Living Fair. Brochures are also available in the District's office, at the Collection Center, and online.

Telephone Information Line

The District operates a hotline for residents and businesses to call for questions related to recycling, HHW disposal, or other solid waste related issues. In 2013, the District answered 3,326 calls, or an average of 277 calls per month logging 4,250 minutes of one-on-one technical assistance with area residents.

Contests



The District continued to hold its annual calendar contest for Lorain County students grades K-12. Students were given the option to create a recycling or litter prevention-themed picture for their entry. Twelve winners were selected to have their pictures used in the calendar. The drawings

were made into calendars that were distributed at fairs, festivals and other District events. More than 900 students from 27 schools participated in the contest.

School Presentations



The District's Community Outreach Coordinator performed 282 school presentations reaching 6,408 students. Presentations focused on the importance of the 3 R's (Reduce, Reuse and Recycle), including specifically which items to recycle in Lorain County, litter prevention, waste reduction, landfills and disposing of hazardous materials properly. Teachers can request school presentations by contacting the District's Community Outreach Coordinator by phone (440-328-2249) or email (bschnell@loraincounty.us). Age-appropriate presentations were developed for each grade from first grade to sixth grade. Two presentations (a basic presentation covering the 3 R's and an activity lesson on papermaking) were not designed for a specific age group and could be adapted to work well with any grade level.

The District's school presentation program is very popular among local school Districts. Due to the overwhelming number of presentation requests, the District no longer does presentations for Kindergarten classes but will provide Kindergarten classes with books, movies, and coloring activities focused on recycling or litter prevention.

Adult Presentations

Two civic presentations were given at the Grafton Correctional Institute and the St. Mary's Women's Group to approximately 100 adults. The District also sponsored a creative financing seminar which was attended by approximately 50 residents. The creative financing seminar was organized by the Lorain Community Development Department and sponsored by the Lorain County Community Alliance for local businesses to learn about creative financing programs available to help businesses. Presenters included the District, the County Commissioners, the Small Business Administration, the State Treasurer, and the Department of Jobs and Commerce from the Ohio Department of Transportation. The District discussed grants, loans, and other financial assistance programs operated by the District that are available to businesses.

Collection Center Tours

The District gave three tours of the Collection Center to 43 participants in 2013. Tours are available to individuals and groups upon request and are tailored to fit each group's individual educational needs.

Events



The District sets up an educational booth and attends community events. During community events, the District distributes information related to District events and programs while engaging with the public.

On America Recycles Day (November 15) in 2013, the District collected 1,892 pledges from students and residents vowing to recycle more.

Lending Library

A library of reference materials is available to school districts and educators. The library contains books, videos, CDs and DVDs for teachers to borrow for classroom use. Reference material topics include waste reduction, recycling, solid waste, household hazardous waste and litter management. The majority of the teachers who use the lending library use the materials with younger students (i.e. preschool through first grade). Materials can be requested online or in person at the District's offices, located in the Lorain County Administration Building on the 5th floor in the Growth Partnership. The library is open 8AM to 4:30PM Monday through Friday.

Additional materials such as environmentally-themed coloring sheets, word searches, anti-litter certificates, and activity books are available for educators to print directly from the website.

District Website

The District maintained several pages of information within its general website for the Lorain County government. The District's main page can be accessed at: www.loraincounty.us/solidwaste.

The website is regularly updated and includes the District’s contact information, background on solid waste districts in Ohio, social media connections, upcoming District events, drop-off recycling locations for traditional and special materials, District news, dates of policy committee meetings, educational services and materials, recycling tips, annual reports, publications, information for reporting environmental crimes, and more. The following table summarizes the operation of the program in the reference year:

Residential Recycling Education and Awareness Program Summary	
Description	Details
District Budget Number	LC-13
OEPA Program Number	6736-6741
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$22,027
Program Operator/Contractor	District

The strengths of the Residential Recycling Education and Awareness program include:

- Multiple age groups are targeted with audience specific material.
- The program focuses on primarily targeting school age children.

The challenges of the Residential Recycling Education and Awareness program include:

- The District must coordinate changes to their web pages and social media accounts through another County department.

RESIDENTIAL/COMMERCIAL MARKET DEVELOPMENT PROGRAMS

1. Recycling/Market Development Grant Program

The objective of the Recycling/Market Development Grant Program is to identify grant opportunities from a variety of federal state, and local sources that are applicable to the District and/or Lorain County businesses or political subdivisions.

Grants that may be applied for by the District include the following:

- Ohio EPA Recycling and Litter Prevention Grants
 - Litter Cleanup and Tire Amnesty Grant
 - Community Grant
 - Market Development Grant
 - Scrap Tire Grant
- Coca-Cola/Keep America Beautiful Recycling Bin Grant
- USDA Rural Development Solid Waste Management Grants
- Other grants as identified

The District applied for and was awarded two grants from Ohio EPA in 2013. The District was awarded \$8,000 for the Litter Collection Prevention Grant and \$25,000 for the Community Recycling Grant. The Litter Collection Prevention Grant was used to fund Pride Day activities. The Community Recycling Grant was used to expand the drop-off recycling program for scrap tires by obtaining a bobcat and accessories and expanding the Collection Center services. The following table summarizes the operation of the program in the reference year:

Recycling/Market Development Grant Program Summary	
Description	Details
District Budget Number	LC-14
OEPA Program Number	6743
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$4,000 (50% match on Litter Grant) (Included in Other Expense (Admin-29) in Table VIII-5)
Program Operator/Contractor	District

The strengths of the Recycling/Market Development Grant program include:

- The District is available to assist businesses and municipalities with obtaining grants.

The challenges of the Recycling/Market Development Grant program include:

- Staff time to research, promote and implement grants.

- Grant funding has been cut back statewide and grants are more competitive.
- Many grants require a funding match.

2. Recycling Revolving Loan Program

The District operated a Recycling Revolving Loan Fund (RRLF) for businesses and organizations (including non-profits) that utilize post-consumer recyclable materials either in their building materials or in their manufacturing processes. The fund contains \$500,000 that was available to Lorain County businesses. The objectives of the RRLF were:

- To promote recycling business opportunities;
- To provide additional markets for recycled materials;
- To retain or create recycling related jobs; and
- To increase manufacturing capacity for recyclable materials in Lorain County by working with existing businesses and attracting new businesses to the region to utilize the recyclable materials collected locally.

In 2013, there were no applications processed. One loan for Bluestar Recycling Center located in Elyria, Ohio was retired. Two loans obtained by Prime Industries in Lorain, Ohio and ADI Wind in Sheffield Village, Ohio remained active during the reference year. The following table summarizes the operation of the program in the reference year:

Recycling Revolving Loan Program Summary	
Description	Details
District Budget Number	LC-15
OEPA Program Number	6744
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Recycling Revolving Loan program include:

- Supporting local business and recycling economy.

The challenges of the Recycling Revolving Loan program include:

- Finding qualified and interested business to participate in the program.
- Funding for business loans may not be enough to support the purchase of high cost equipment.

3. District Market Development Grants (Commissioner Grants)

The District provided grants for special projects initiated by the Lorain County Commissioners. These projects included market development opportunities and buy recycled projects. The District and the Commissioners support the philosophy that the recycling of recycled content materials products and equipment (Market Development) creates jobs, economic growth and a better environment for Lorain County residents and businesses.

The projects have promoted recycled materials markets including the following materials and or equipment:

- Recycled Content Carpet;
- Recycled Content Plastic Furniture and Benches; and
- Other Materials and or Equipment as Identified.

The District awarded one Market Development Grant in 2013 to the Children’s Development Center in Amherst for a playground upgrade using recycled tire chips sourced from Liberty Tire. The following table summarizes the operation of the program in the reference year:

District Market Development Grants Program Summary	
Description	Details
District Budget Number	LC-16
OEPA Program Number	6745
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0 (Funds were distributed in 2014)
Program Operator/Contractor	District

The strengths of the District Market Development Grants program include:

- Creates a local market for recycled content building materials and equipment.
- Provides support for improvement projects at District facilities.

The challenges of the District Market Development Grants program include:

- Continuing the program at the same level of funding.
- Funding for maintenance of the materials and equipment is not provided by the District.

RESIDENTIAL/COMMERCIAL GRANT PROGRAMS

1. Community Incentive Grant Program

The District operates an annual Community Incentive Grant program to encourage political subdivisions with curbside recycling to continue or improve their programs. To participate in the grant program, political subdivisions are required to submit recycling and compost tonnage information to the District's online data collection system, Re-TRAC Connect.

Diversion tonnage submitted by political subdivisions participating in the grant program are reviewed for accuracy and cross-checked against totals submitted to the District by each community's hauler. The District divides the total funds available for the grant program by the quantity of creditable tons reported by communities and determines the grant's per ton value. The level of funding available for the grant program is based on a formula dependent on disposal fees collected by the District.

Political subdivisions that recycle more are eligible for larger sums of grant funding. In order for 100% of a political subdivision's reported recycling tonnage to count, the political subdivision must operate a non-subscription curbside recycling program in conjunction with a pay-as-you-throw or volume-based disposal system. This system is considered to be the most effective system for maximizing recycling and participation rates for the residents in single-family housing units. The City of Lorain is the only municipality in the District that does not operate such a system. Only 50% of the recyclables reported by the City of Lorain are creditable toward the grant

program. When the City upgrades its curbside recycling system, 100% of the recyclables reported will count toward the grant.

Annual incentive grant funding is be determined in the first quarter of the year based on the previous 12 months revenues (checks received January thru December minus dollars rebated through the Agreement to Republic Waste). The table below illustrates the availability of grant funding based on County revenues. Based on the District’s revenue, the available level of grant funding for 2013 was \$300,000.

County Revenues	Available Grant Funding
\$2 million to \$2.1 million	\$200,000
Over \$2.1 million to \$2.2 million	\$225,000
Over \$2.2 million to \$2.3 million	\$250,000
Over \$2.3 million to \$2.4 million	\$275,000
Over \$2.4 million to \$2.5 million	\$300,000
Over \$2.5 million to \$2.6 million	\$335,000
Over \$2.6 million to \$2.7 million	\$370,000
Over \$2.7 million to \$2.8 million	\$405,000
Over \$2.8 million to \$2.9 million	\$445,000
Over \$2.9 million to \$3.0 million	\$485,000
Over \$3.0 million to \$3.1 million	\$525,000
Over \$3.1 million to \$3.2 million	\$575,000
Over \$3.2 million to \$3.3 million	\$625,000
Over \$3.3 million to \$3.4 million	\$675,000
Over \$3.4 million to \$3.5 million	\$735,000
Over \$3.5 million	\$60,000 for each \$100,000

In 2012, 33 of the 34 communities reporting recycling quantities already had non-subscription curbside recycling with a volume-based (VB) waste collection program. The total tons of recycling collected by communities with a VB program in 2012 were 18,565 tons. There was one community using a blue bag program that collected 909 tons of recyclable material. The blue bag community is only credited for 50% of their recycling since they did not switch to a VB program. Therefore, they are credited with 454 tons of recyclables in 2012. The total recyclables credited for the 2013 Community Incentive Grant would be 19,019 tons (18,565 + (909/2)). The District used the following formula to determine funding levels on a per ton basis:

$$\frac{\text{Available Grant Funding } (\$300,000)}{\text{Total Tons Recycled VBS} + (\text{Blue Bag Tons} \div 2)}$$

$$\$300,000 \div 19,019.4 \text{ tons} = \$15.77 \text{ dollars per ton}$$

The following table presents the Community Incentive Grant Funding available by community in 2013:

Lorain County Community	Type of Recycling Program	2012 Tons	Grant Amount
City of Amherst	NS, PAYT	1,077.2	\$16,696.64
Amherst Township	NS, PAYT	418.4	\$6,485.11
Brighton Township	NS, PAYT, DO	57.5	\$890.91
Brownhelm Township	NS, PAYT	62.7	\$971.35
Camden Township	NS, PAYT	61.5	\$952.44
Carlisle Township	NS, PAYT, DO	528.4	\$8,189.91
City of Avon	NS, PAYT	2,315.5	\$35,888.69
City of Avon Lake	NS, PAYT	933.5	\$14,468.75
City of Elyria	NS, PAYT	3,665.2	\$56,808.31
City of Lorain*	Blue Bag	454.5	\$7,044.04
City of Oberlin	NS, PAYT	590.5	\$9,153.05
City of Sheffield Lake	NS, PAYT	784.9	\$12,164.91
City of Vermillion	NS, PAYT	1,224.9	\$18,984.67
Columbia township	NS, PAYT	610.7	\$9,464.75
Eaton Township	NS, PAYT, DO	306.1	\$4,745.00
Elyria Township	NS, PAYT	329.8	\$5,111.88
Grafton Township	NS, PAYT	200.1	\$3,101.55
Henrietta Township	NS, PAYT	0.0	\$0.00
Huntington Township	NS, PAYT, DO	50.5	\$782.57
LaGrange Township	NS, PAYT	304.1	\$4,713.85
New Russia Township	NS, PAYT	190.8	\$2,956.68
North Ridgeville	NS, PAYT	3,160.7	\$48,989.76
Penfield Township	NS, PAYT, DO	82.8	\$1,283.51
Pittsfield Township	NS, PAYT	143.7	\$2,227.27
Rochester Township	NS, PAYT	32.9	\$510.40
Sheffield Township	NS, PAYT	317.4	\$4,919.22
Village of Grafton	NS, PAYT	254.2	\$3,939.76
Village of Kipton	NS, PAYT	27.6	\$727.01
Village of LaGrange	NS, PAYT	230.0	\$3,565.03
Village of Rochester	NS, PAYT	2.7	\$41.23
Village of Sheffield	NS, PAYT	336.2	\$5,210.14
Village of South Amherst	NS, PAYT	234.4	\$3,633.23
Village of Wellington	NS, PAYT	283.1	\$4,387.28
Wellington Township	NS, PAYT	83.3	\$1,291.11
Totals		19,019.4	\$300,000

In 2013, the District awarded \$300,000 to communities. However, due to grant funding cycles, the actual expenditures for this program exceeded \$300,000 in 2013. The additional amount reflects a small portion of the grant funding that was awarded in the previous year.

The following table summarizes the operation of the program in the reference year:

Community Incentive Grant Program Summary	
Description	Details
District Budget Number	LC-17
OEPA Program Number	6746
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Aluminum and steel cans, glass, plastic, newspaper, cardboard and other paper
2013 Recycled Tonnage	17,546
2013 Program Costs	\$328,859
Program Operator/Contractor	District

The strengths of the Community Incentive Grant program include:

- The District has the ability to provide substantial financial assistance to many communities.
- The Grant Program encourages political subdivisions to keep or improve curbside recycling programs.
- The District receives nearly a 100% response rate on electronic community recycling surveys.

The challenges of the Community Incentive Grant program include:

- Not all communities participate in the VBS program.
- This program requires a large financial commitment from the District.
- Recycling tonnage has declined over the past few years despite providing significant levels of funding to communities to improve programs.
- Communities and haulers often report conflicting totals.

LITTER ABATEMENT PROGRAMS

1. Volunteer Litter Collection (Lorain County Pride Day)



The District hosted and promoted the Annual Lorain County Pride Day, a county-wide litter collection and beautification event. Each participating community was involved in the recruitment and scheduling of volunteers for the day's activities.

In 2013, 2,051 residents dedicated 6,500 hours to the program. Volunteers collected approximately 198 tons of trash from 50 miles of roadway, 142 acres of parkland, 10 miles of trails, 20 playgrounds and 1.5 miles of waterway. More than 148 flats of flowers were planted and an additional 75 pots were planted with flowers. One hundred Pride Day garden flags were placed in flower and vegetable gardens and other areas cleaned and beautified during the event. Volunteers recycled 231 bags of newspaper, donated 1,170 pounds of reusables to Goodwill, and abated a graffiti site. Six schools also participated in the event, with 139 students and faculty completing school yard cleanups.

Pride Day is part of Keep America Beautiful's (KAB) Great American Cleanup. The District has been a KAB affiliate since 1995 and has partnered with the local chapter, Keep Lorain County Beautiful (KLCB), on many programs and projects since its inception. During the reference year, KLCB's Board was expanded in hopes of improving programs and bringing new ideas to the table. The District works with KLCB's Board on Pride Day and similar events to identify opportunities for partnerships that further the mutual goals of both the District and KLCB. A copy of the bylaws for KLCB's Advisory Board are available in Appendix H.

The following table summarizes the operation of the program in the reference year:

Volunteer Litter Collection Program Summary	
Description	Details
District Budget Number	LC-18
OEPA Program Number	6747
Entity Responsible for Maintaining Program	District

Volunteer Litter Collection Program Summary	
Description	Details
Service Area for Program	Lorain County
Litter Removed During Pride Day	198 tons trash
2013 Recycled Tonnage	231 bags recyclables 0.6 tons reusables
2013 Program Costs	\$5,285.10
Program Operator/Contractor	District

The strengths of the Volunteer Litter Collection program include:

- Lorain County is a cleaner and safer place because of this program.
- The program may enhance property values.
- The program promotes economic development opportunities through cleaner communities.
- The program promotes increased tourism in the county and waterfront recreational areas because the communities are cleaner.
- Promotes residents to take ownership in their community.
- The program eliminated all open dumps in the county.

The challenges of the Volunteer Litter Collection program include:

- The program has limitations with regard to availability of volunteers and frequency of clean-ups.
- The program has limited funding allocated.

2. Open Dump and Scrap Tire Clean-Up

The Boards of Health (Lorain County, City of Elyria, and City of Lorain) can apply for funding to clean-up open dump sites. Open dumps include illegally disposed solid waste or scrap tires. The funding is allocated from the general plan implementation line item. Open dump clean-up funds were not expended in 2013 because there were no reported open dumps. The District feels confident that open dumps did not exist in the District during 2013. The Environmental Crimes Unit (LC-22) patrols the County and responds

to solid waste related complaints year round. The following table summarizes the operation of the program in the reference year:

Open Dump and Scrap Tire Clean-Up Program Summary	
Description	Details
District Budget Number	LC-19
OEPA Program Number	6748
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	0
2013 Recycled Tonnage	0
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Open Dump and Scrap Tire Clean-Up program include:

- Lorain County is a cleaner and safer place because of this program.
- Political subdivisions save money and time by not having to clean-up illegally disposed solid waste along roadways and other areas of the county.

The challenges of the Open Dump and Scrap Tire Clean-Up program include:

- None.

3. Litter Strike Force Program

The Litter Strike Force (LSF) is comprised of teams that respond to problem areas in Lorain County to stop the spread and accumulation of litter. LSF teams are comprised of students or temporary workers and the program operates primarily in the summer months when temporary student labor is more readily available. In 2013, this program had no activity. The following table summarizes the operation of the program in the reference year:

Litter Strike Force Program Summary	
Description	Details
District Budget Number	LC-20
OEPA Program Number	6753
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County

Litter Strike Force Program Summary	
Description	Details
Litter Removed	0
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Litter Strike Force program include:

- Lorain County is a cleaner and safer place because of this program.
- Provides work experience for young adults.

The challenges of the Litter Strike Force program include:

- Limited funding available.
- Time necessary to train workers.

4. C.A.B. (Clean and Beautiful)



The District created a new program in 2013 after receiving a grant from Keep America Beautiful in 2012. The District staff collaborated to create a design for an enclosed landscape trailer to be used for litter cleanups and beautification activities. The trailer was branded “C.A.B.” (Clean And Beautiful)

wrapped and stocked with equipment and supplies. Community groups or organizations are able to borrow the trailer to complete clean-ups, community gardens or other beautification projects at no cost. There were numerous requests to borrow the C.A.B. trailers in 2013. By 2014, the program’s popularity had grown so successfully that a waiting list needed to be created for the C.A.B. trailers. This program received the following feedback:

“Having the wonderful variety of tools makes community projects easier to manage. Plus, there’s an added bonus of the beautiful artwork on the trailer that brings attention to our community project. Thank you for the C.A.B.!!!”

Sandy Kish Jordan, Vermilion in Bloom

“Thank you Solid Waste for helping us revamp our LaGrange Lions park with your equipment from the CAB trailer. It made our work easier to have all the things like the rakes, brooms, lawnmower, blower, etc. and the big plus was the garbage bags on hand.”

*The LaGrange Lions Club
President, Jerry Smith & Kay Hegadore*

The following table summarizes the operation of the program in the reference year:

C.A.B. Program Summary	
Description	Details
District Budget Number	LC-21
OEPA Program Number	Not assigned
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$701
Program Operator/Contractor	District

The strengths of the C.A.B. program include:

- Free resource for community groups and organizations to complete litter clean-up or beautification projects.
- Trailers are multi-use and can be used to assist local organizations with food drives or donation events when not in use.
- Program required low-capital investment and reused existing, under-utilized equipment.

The challenges of the C.A.B. program include:

- None.

RESIDENTIAL/COMMERCIAL OTHER PROGRAMS

1. Sheriff's Department Funding

The District funds the Environmental Crimes Unit (ECU) which is staffed by two deputy sheriffs. The ECU investigates and prosecutes open dump sites and other related environmental crimes. In 2013, the ECU investigated 108 potential criminal charges related to open dumping (8), littering (12), littering from a motor vehicle (2), open burning (1), polluting state lands and waters (1), other Ohio Revised Code violations (13), abandon vehicles (60), and miscellaneous violations (11). The total number of environmental crimes investigations decreased approximately 50% from the previous year. The following table summarizes the operation of the program in the reference year:

Sheriff's Department Funding Program Summary	
Description	Details
District Budget Number	LC-22
OEPA Program Number	8516
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$117,815
Program Operator/Contractor	Sheriff's Office, District

The strengths of the Sheriff's Department Funding program include:

- Identifying and prosecuting open dump violators.
- Assisting with District rule violations.
- Completing and seeing cases through the system.

The challenges of the Sheriff's Department Funding program include:

- Working with haulers to ensure flow control provisions are followed and that the origin of waste is properly characterized.

- Keeping up with the number of violations.

2. Health Department Financial Assistance

The District continued to provide financial assistance to the City of Lorain and the City of Elyria Boards of Health and the Lorain County Health Department for enforcement of solid waste regulations. This included inspection of landfills, open dumps, solid waste nuisance complaints and other health-related solid waste issues. Each Health District submitted an annual report on how the funds were spent in 2013. Funding for the Health Districts will not be approved without the receipt of the annual report. In 2008, these three Health Districts received \$170,000 in funding for solid waste enforcement activities. The following table summarizes the operation of the program in the reference year:

Health Department Financial Assistance Program Summary	
Description	Details
District Budget Number	LC-23
OEPA Program Number	8518
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$170,000
Program Operator/Contractor	District

The strengths of the Health Department Financial Assistance program include:

- Solid waste enforcement issues are managed locally.
- Licenses for facilities are addressed adequately through this program.
- All three health departments are involved with solid waste management.

The challenges of the Health Department Financial Assistance program include:

- Ensuring complete reports on Department activities.

3. County Assistance (Engineer)

The District provided \$50,000 in funding to the County Engineer for road repairs which were due to excess truck traffic from solid waste haulers in 2013. The following table summarizes the operation of the program in the reference year:

County Assistance (Engineer) Program Summary	
Description	Details
District Budget Number	LC-24
OEPA Program Number	6749
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$50,000
Program Operator/Contractor	County Engineer, District

The strengths of the County Engineer Program include:

- Lorain County roads near solid waste management facilities are safer and maintained better because of this program.

The challenges of the County Engineer Program include:

- None identified.

4. Legal

The District may solicit legal advice for important solid waste management issues from the prosecutor's office as well as outside counsel. Counsel representing the District may assist with issues related to the negotiation of contracts, enforcement, flow control, and other legal issues impacting the District. In 2013, no legal assistance was required by the District. The following table summarizes the operation of the program in the reference year:

Legal Program Summary	
Description	Details
District Budget Number	LC-25
OEPA Program Number	8515
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County

Legal Program Summary	
Description	Details
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Legal program include:

- Provides an opportunity to get professional assistance with important solid waste issues affecting the District.

The challenges of the Legal program include:

- Outside professional legal services can incur significant costs to the District.

5. **New Programs Funding (General Plan Implementation)**

The District reserves a fund of \$150,000 to assist programs that required additional funding or to establish new programs. The District may provide funding for any existing or additional new programs (including existing grant programs) or organizations (including non-profits) for projects or grants that utilize recycled materials. In 2013, the District allocated \$701 from New Programs Funding to establish the CAB (Clean and Beautiful) program (see LC-21) and \$21,000 to establish a Consortium for Waste Services (LC-30). The following table summarizes the operation of the program in the reference year:

New Programs Funding Program Summary	
Description	Details
District Budget Number	LC-26
OEPA Program Number	6750
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$21,701 (broken down in Table VIII-5 into LC-21 and LC-30)
Program Operator/Contractor	District

The strengths of the New Programs Funding program include:

- Provides an opportunity to provide extra funding to popular District programs.

The challenges of the New Programs Funding program include:

- None identified.

6. Emergency Management

The District’s Disaster Debris Management Plan remains incorporated in the master emergency plan for Lorain County. The disaster debris management chapter of the Plan identifies the services and needs of the County in the event a debris management emergency or a solid waste management service emergency exists.

The Disaster Debris Management Plan provides guidance to officials in the event of a disaster event. The guidance may range from simple education programs to funding clean-up efforts.

An annual budget of \$25,000 is reserved for this program. If there is a need for disaster debris management funding in Lorain County that exceeds the annual budget, the District may allocate up to 25% of excess District funding. The District, EMA and the County will make every effort to seek reimbursement from the state and federal funding sources. In 2013, no funds were expended. The following table summarizes the operation of the program in the reference year:

Emergency Management Program Summary	
Description	Details
District Budget Number	LC-27
OEPA Program Number	6752
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Emergency Management program include:

- There are now limits on how District funds may be spent for debris clean-up activities.

- The District will be eligible for FEMA reimbursement of funds used to clean-up after a disaster.

The challenges of the Emergency Management program include:

- The District does not have a separate and more detailed Disaster Debris plan outside of the Disaster Debris chapter of the Lorain County Emergency Management Plan.
- Contracts need to be reviewed annually and updated accordingly to assure that they are valid when a disaster strikes.

7. Third Party Financial Audit

To maximize confidence in the District and transparency between the District and policy committee, the District solicits a third party financial audit on a biannual basis. The last third party audit was completed for the 2012 accounting year and the next audit is scheduled for the 2014 accounting year. The audit is conducted to ensure proper expenditures under the general accounting requirements of the State of Ohio. The audit also ensures that expenditures are in compliance with the ten allowable uses of solid waste disposal fees and the District budget. The District also presents a financial overview of revenue and expenditures at most policy committee meetings to keep members informed and maintain transparency between audits. The following table summarizes the operation of the program in the reference year:

Program Summary – Third Party Financial Audit	
Description	Details
District Budget Number	LC-28
OEPA Program Number	6754
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Third Party Financial Audit program include:

- Audits assure that District money is being spent within the ten allowable uses.

The challenges of the Third Party Financial Audit program include:

- None.

8. Host Community Agreement

The District reserves the right to negotiate a host community agreement with any solid waste facility operator where the Board of Directors believes an agreement is in the best interests of the District. Approval of a Host Community Agreement must be in accordance with all applicable Ohio laws and regulations. In 2013, there was no new activity on the part of the District for this program. The Host Community Agreement between Republic Waste Services remained in effect. The Agreement requires Republic Waste Services to pay \$0.60 for each ton of out-of-district waste delivered to the Lorain County Landfill. The following table summarizes the operation of the program in the reference year:

Host Community Agreement Program Summary	
Description	Details
District Budget Number	LC-29
OEPA Program Number	6755
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Host Community Agreement program include:

- Provides funding for community cleanup programs.
- Provides services to county facilities.

The challenges of the Host Community Agreement program include:

- None.

9. Consortium for Waste Services

In early 2013, the District received a call from a Trustee concerned with pricing and the quality of service from the Township’s solid waste hauler. The District surveyed townships in Lorain County and discovered that the average cost per household per quarter for the

collection of trash and recyclables was \$70, but some residents costs were more than \$100. The District was invited to a meeting with the Township Trustees Association to discuss strategies to obtain better pricing and services from solid waste and recyclables haulers. At the meeting, the concept of working together and developing a joint bid for services was explained. Consortium bidding aggregates the purchasing power of multiple political subdivisions which creates leverage.

Multiple meetings with interested communities were organized. The District agreed to assist with funding a consortium if communities would bid on volume-based waste collection and non-subscription curbside recycling with carts.

Interested communities agreed to the District's terms and the District assembled a team to assist with the joint-bidding process. The District provided the start-up seed money for the consortium.

During meetings with interested communities, service preferences, such as days of the week for service, dumpsters needed for township buildings and special collections, and other requests were identified. Participants were educated with regard to options available and the advantages of joint bidding.

The District's professional team that was assembled to assist communities with the joint bidding process drafted the request for proposals (RFP) and hosted a mandatory bid meeting for interested haulers. Bids were received by two of the three haulers that attended the meeting, but neither bid included services for yard waste which caused an issue for one consortium member.

The RFP was re-written for the member that required a yard waste service bid. Through the consortium, some townships were able to lower waste hauling costs by more than 50% per household. After the bids were received, communities were given the option to stay in or opt-out of the consortium. The consortium will result in an estimated \$5 million in savings over the 5-year contract term. Services started January 1, 2014. The following table summarizes the operation of the program in the reference year:

Consortium for Waste Services Program Summary	
Description	Details
District Budget Number	LC-30
OEPA Program Number	Not assigned
Entity Responsible for Maintaining Program	District

Consortium for Waste Services Program Summary	
Description	Details
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$21,000
Program Operator/Contractor	District, Eastman & Smith, GT Environmental

The strengths of the Consortium for Waste Services program include:

- Townships and cities were able to leverage purchasing power to lower rates and improve services.
- Bidding consortium will result in more than \$5 million in savings over the 5-year contract term.

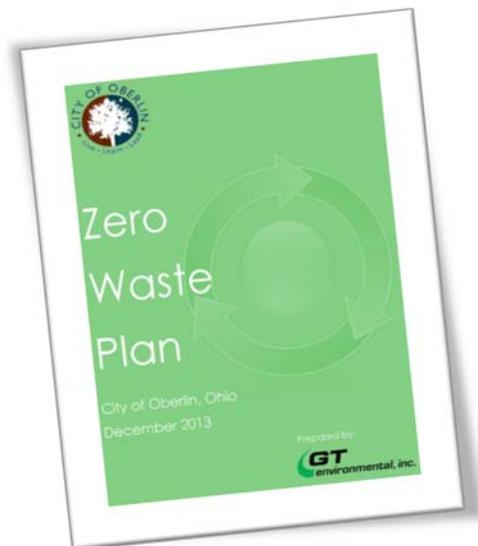
The challenges of the Consortium for Waste Services program include:

- Kickoff on January 1 caused some start-up problems.
- There were hauler issues with communications.

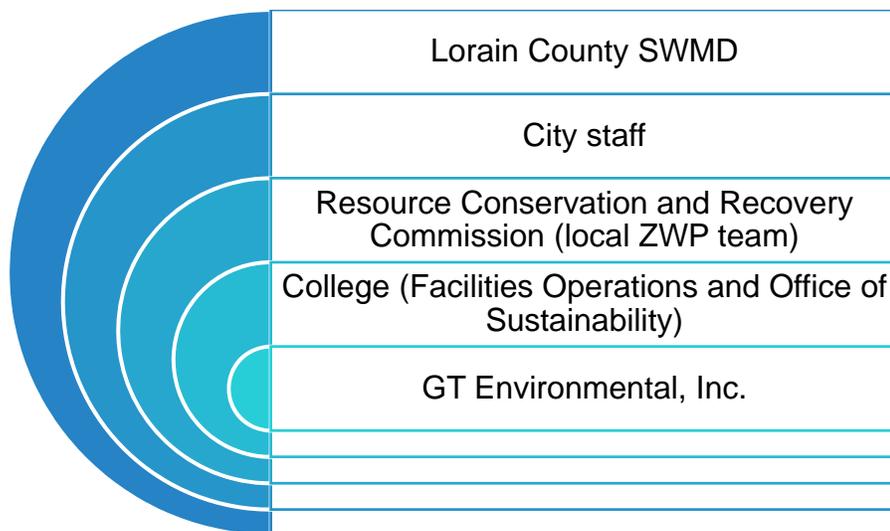
10. Zero Waste Planning

The District has been achieving and exceeding the state’s goals for residential and commercial sector diversion (25%) for many years. As a progressive District, the Lorain County SWMD identified zero waste planning for political subdivisions as a priority. The District identified candidates for its initial zero waste planning effort by selecting political subdivisions that were already participating in voluntary municipality-wide environmental sustainability initiatives.

The District identified the City of Oberlin as a prime candidate and organized a meeting with the City to gauge interest in taking part in the program. The City agreed to participate in zero waste planning and entered into a memorandum of understanding (MOU) with the District. The MOU stated that the District would provide consulting services and technical assistance to develop a Zero Waste Plan (ZWP) for the City. At the outset of the process, a series of meetings were held for participants in the ZWP development:



Participants in ZWP Development



After an inventory of the City’s existing waste generation, recycling practices, and food waste recovery efforts was completed, the planning team began formulating possible changes to existing programs or proposing new programs which could be implemented to divert more waste from landfill disposal.

During the meetings, the City established a goal of 90% waste reduction or waste diversion by 2050 or sooner. The City also mentioned that waste minimization through incineration shall not be counted toward ZWP goals.

The goals outlined in the ZWP are achieved through a number of activities and programs, to be implemented in three phases. The amount of waste reduction, recycling, and composting was projected for each of the proposed programs, with volume-based automated collection and City-wide organics collection (including food waste) providing the majority of diversion increases.

The ZWP was presented to City Council in December of 2013 and was adopted by resolution in May of 2014. The City of Oberlin is the first municipality in Ohio to formally adopt a Zero Waste Plan. The following table summarizes the operation of the program in the reference year:

Zero Waste Planning Program Summary	
Description	Details
District Budget Number	LC-31
OEPA Program Number	Not assigned
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$20,000
Program Operator/Contractor	District, GT Environmental

The strengths of the Zero Waste Planning program include:

- The City of Oberlin is now at the forefront of waste diversion planning in Ohio.
- Planning process can be duplicated for other political subdivisions in the District or throughout Ohio.
- Zero waste initiatives are more aggressive and challenging than maintaining current state goals requiring only 25% diversion from the residential/commercial sector.

The challenges of the Zero Waste Planning program include:

- Obtaining buy-in from leadership for zero waste planning may be challenging politically in some areas.
- Political subdivisions need to devote resources in order to achieve intermediate and long-term goals in ZWP.

Commercial/Industrial and Other Waste Reduction Strategies

COMMERCIAL/INDUSTRIAL WASTE REDUCTION/RECYCLING AND EDUCATION PROGRAMS

1. Waste Audits

The District conducts waste assessments and audits for businesses, industries, and institutions that request the service. The District provided consulting services to complete a strategic materials management plan for the Lorain Mercy Regional Medical Center and provided similar assistance to the Lorain County Community College. These services included waste assessments for each location. The following table summarizes the operation of the program in the reference year:

Waste Audits Program Summary	
Description	Details
District Budget Number	LC-32
OEPA Program Number	6756
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	Included in Admin
Program Operator/Contractor	District

The strengths of the Waste Audits program include:

- Provides businesses, industries, institutions, and political subdivisions with an opportunity to explore waste reduction and recycling options.
- Fosters positive relationship with District and entities it assists.
- Typically provides in-depth, customized waste minimization solutions for large quantity waste generators.

The challenges of the Waste Audits program include:

- Advertising this service.
- Staff time to conduct the assessments.

2. Commercial/Industrial Recycling Recognition

The Commercial/Industrial Recycling Recognition program was designed to acknowledge businesses that have innovative recycling programs and that actively participate in the District's annual surveying efforts. The District did not operate this program in 2013 because the program was being restructured. The following table summarizes the operation of the program in the reference year:

Commercial/Industrial Recycling Recognition Program Summary	
Description	Details
District Budget Number	LC-33
OEPA Program Number	6757
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Commercial/Industrial Recycling Recognition program include:

- Provides businesses with an incentive to recycle.

The challenges of the Commercial/Industrial Recycling Recognition program include:

- Analyzing business recycling programs to determine winners.
- Making sure that businesses that did not win do not get discouraged.

3. Businesses Recycling Round Table

The District facilitates and promotes recycling roundtable discussions for the business community that focus on innovative recycling processes and applications related to solid waste and recycling contracts, cooperatives, programs, and other related matters. In 2013, two business roundtable meetings were held at the Lorain County Administration Building on January 22nd and March 26th. An average of 8 people attended each meeting. The first meeting focused on small business issues and the second meeting was an open forum regarding solid waste management.

The following table summarizes the operation of the program in the reference year:

Business Recycling Round Table Program Summary	
Description	Details
District Budget Number	LC-34
OEPA Program Number	6758
Entity Responsible for Maintaining Program	District
Service Area for Program	Lorain County
Materials Reduced/Recycled	Not applicable
2013 Recycled Tonnage	Not applicable
2013 Program Costs	\$0
Program Operator/Contractor	District

The strengths of the Business Recycling Round Table program include:

- Bringing businesses together to network and share common experiences.
- A forum to share District recycling programs aimed at the commercial and industrial sectors.

The challenges of the Business Recycling Round Table program include:

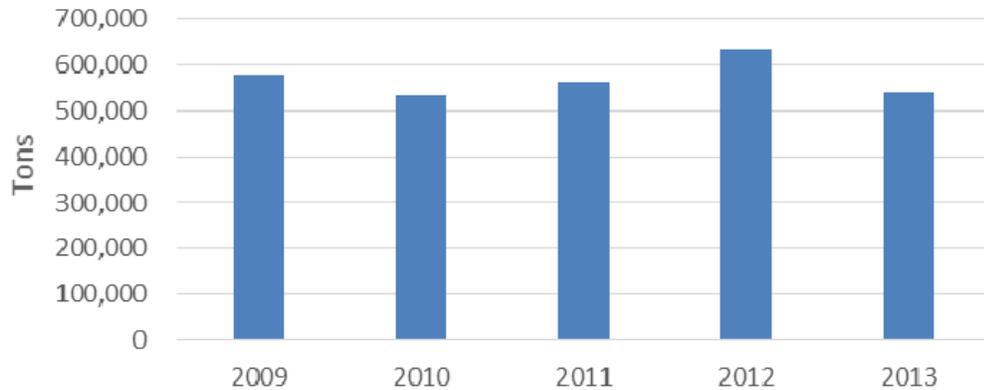
- Building interest for participants, speakers and presenters.
- Scheduling meetings during dates and times when the most participants can attend.

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

Table IV-7 presents the District's total waste generation patterns over a five year period spanning from 2009 to 2013. Total waste generation is calculated by summing the total waste landfilled (either by direct disposal or transfer), total tons recycled, and total tons composted. An examination of the District's total waste generation patterns over the five year period reveals that in 2012, a high of 633,600 tons was generated and in 2010, a low of 532,510 tons was generated. Waste generation has fluctuated over the five year period, mainly due to reported totals of industrial sector recycling. The following figure presents the District's historical total waste generation.

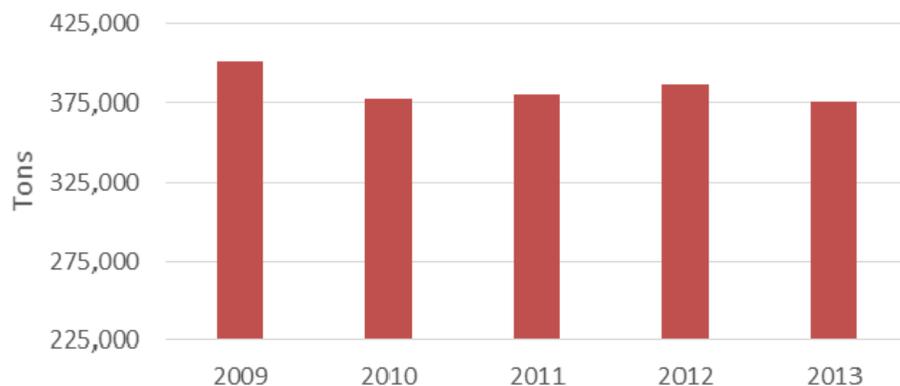
Table IV-7, “Total Waste Generation Based Upon Disposal Plus Waste Reduction, compiles data from the Annual District Reports and Ohio EPA Facility Data Reports. In 2013, the District generated 540,526 tons of solid waste based on landfill disposal, yard waste composting and recycling, or approximately 93,000 tons less than the previous year. Waste generation has fluctuated over the past five years as depicted in the following figure.

District Historical Waste Generation



Landfilled waste tonnage gradually increased from 2010 through 2012, then decreased in 2013. Landfilled waste has ranged from a high of approximately 401,600 tons in 2009 to a low of approximately 375,360 tons in 2013. The following figure presents the historical landfill totals from 2009 through 2013.

District Historical Landfill Disposal



The following figure shows the break-down of landfilled waste by category: residential/commercial, industrial, and exempt from 1998 to 2008. Over the last 15 years, residential/commercial waste disposed has generally decreased as a percentage of the total, while industrial waste fluctuated.

Exempt waste remained relatively constant until 2006, and then increased substantially.

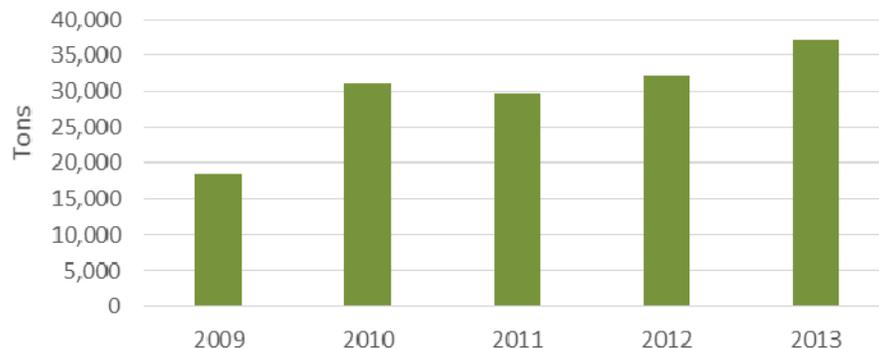
District Historical Landfill Disposal by Sector



In terms of tonnage, the amount of exempt waste landfilled increased by almost 109,000 tons in 2006 compared to the previous year. The District’s understanding is that the majority of exempt waste was generated at two power plants that began operating that year. One of the power plants ceased operations in 2009, causing a slight decline in the amount of exempt waste generated. The amount of landfilled exempt waste has remained relatively high through 2013 (compared with pre-2006 quantities), averaging more than 137,000 tons each year during this period.

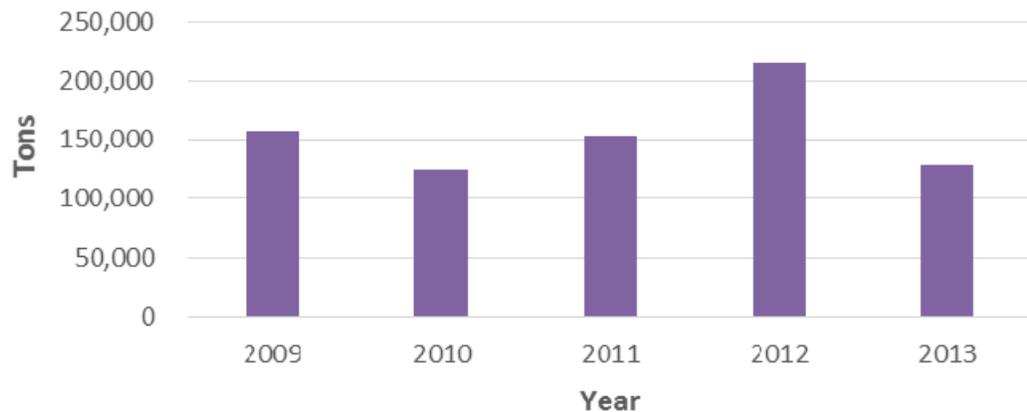
The amount of yard waste composted has steadily increased from 2009 through 2013. The tons of yard waste managed through composting has ranged from 18,577 tons to 37,237 during this period. The following figure depicts the historical yard waste totals from 2009 through 2013.

District Historical Yard Waste Management



Total waste reduction/recycling in the District has fluctuated since 2009, ranging from a low of 124,500 tons in 2010 to a high of 214,500 tons in 2012. The following figure presents the historical waste reduction and recycling totals from 2009 through 2013.

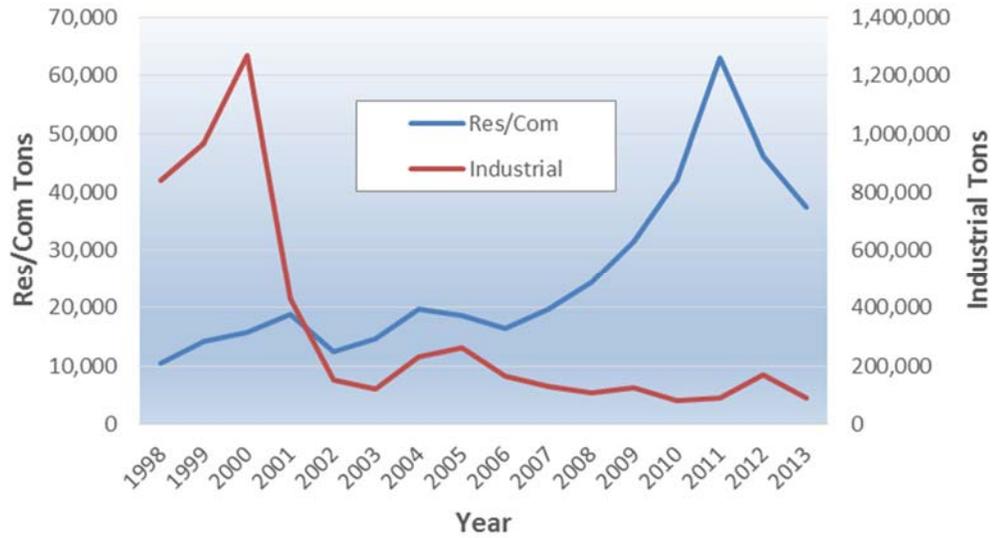
District Historical Waste Reduction/Recycling



Since 1998, waste reduction/recycling has decreased significantly, and this decrease can be primarily attributed to the industrial sector. The economic down-turns during this period has resulted in some industries closing facilities and in some cases, entire companies closing. A decrease in waste generation in the industrial sector has also resulted in a decrease in the amount of material recycled by industries.

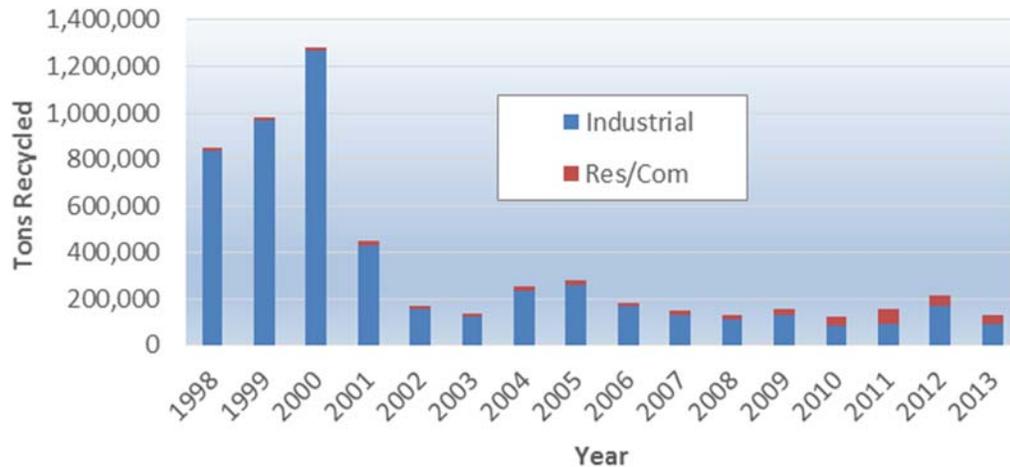
In general, the amount of waste reduction/recycling from the residential/commercial sector has steadily increased from 1998, with two notable exceptions. Reduction and recycling from this sector decreased in both 2012 and 2013. The following figure depicts the waste reduction/recycling quantities reported by the residential/commercial and industrial sectors from 1998 through 2013.

Residential/Commercial vs. Industrial Waste Reduction/Recycling



Overall, the industrial sector has contributed a much greater proportion to the total District waste reduction/recycling amounts. However, as illustrated in the following figure, the proportion of total waste reduction/recycling in the District from the industrial sector has decreased dramatically since years 2000 and 2001.

Residential/Commercial vs. Industrial Waste Reduction/Recycling (by percentage of total)



I. Reconciliation of Waste Generation

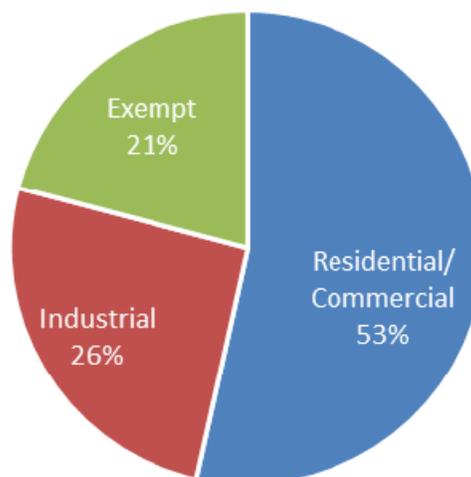
Table IV-8, “Adjusted Reference Year Total Waste Generation for the District”, presents adjusted reference year total waste generation for the District. This is based on actual reported recycling and disposal.

The District calculated waste generation using two methods. The first method outlined in Part D of this Section (see page IV-4) uses statewide generation estimates to determine industrial waste generation projections. Residential/commercial generation was determined based upon the rate of change in generation rate observed within the District during the past several years. Finally, exempt waste was obtained from actual landfill and transfer station operating reports. Using this methodology, the District estimated 644,851 tons of solid waste generated in 2013. The resulting total generation rate was 11.49 pounds per person per day (Table IV-4).

The second method used to calculate solid waste generation is based on actual reported recycling and disposal in the District during the reference year (Table IV-8). For 2013, District residents, businesses, and industry generated 540,533 tons. The total generation rate was 9.63 pounds per person per day (Table IV-8), which includes recycling and waste disposal from all sectors. The residential/commercial sector generated 289,107 tons or 5.15 pounds per person per day, which includes recycling and yard waste composting. Industrial waste was estimated to be 138,446 tons or approximately 2.47 pounds per person per day. Exempt waste generation was 112,972 tons or approximately 2.01 pounds per person per day.

The District selected the second method as the most accurate method of projecting waste generation because waste at the landfills and transfer stations is weighed. This method of collecting solid waste data has been fairly consistent for several years for the Lorain County Solid Waste Management District. The first method of projecting waste generation is based on surveys, projections, and secondary data sources, which are generally not as accurate as actually weighing the materials. The following figure depicts the reference year waste generation by sector based upon using the second method of waste generation estimation.

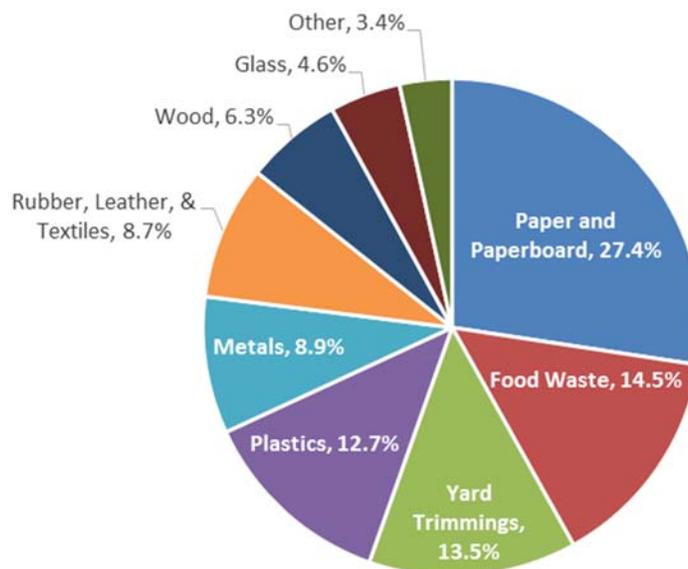
2013 District Adjusted Waste Generation by Sector



J. Waste Composition

The District estimated the composition of the total residential/commercial waste stream in Table IV-9, "Estimated Residential/Commercial Waste Stream Composition for the District for the Reference Year", using the most recently available national averages from US EPA (2012). The averages represent the total tons of waste materials generated before recycling. The largest component of the residential/commercial waste stream is projected to be paper and paperboard at 27.4% (79,215 tons), followed by food waste at 14.5% (41,921 tons), and yard trimmings at 13.5% (39,039 tons). The following figure depicts the residential/commercial waste composition for the reference year.

2013 District Estimated Residential/Commercial Waste Stream Composition

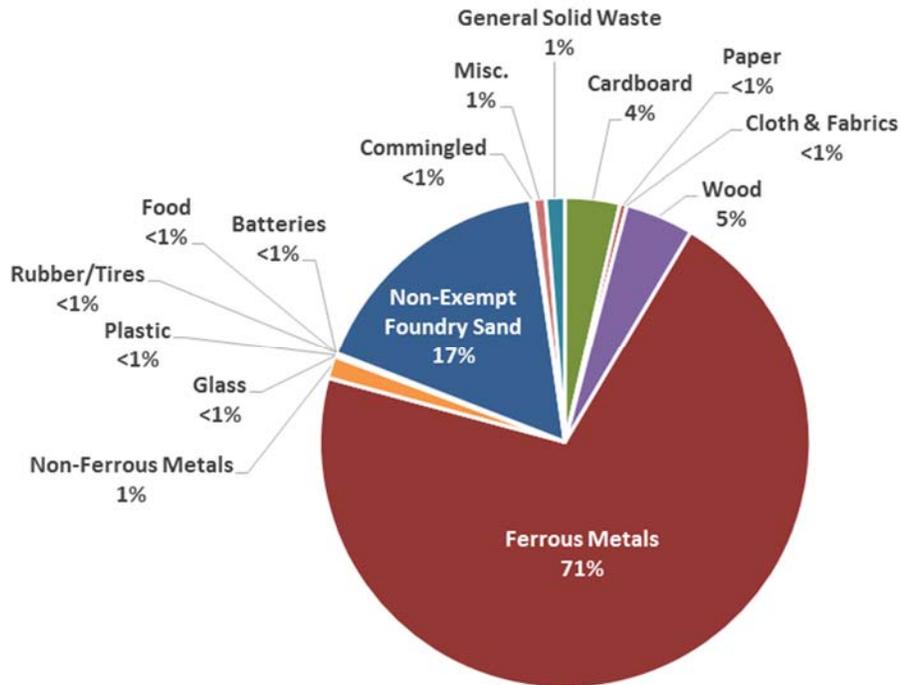


Similar to the residential/commercial waste stream, the purpose for reviewing the industrial waste stream is to determine what types of materials comprise the largest volumes and then determine if the necessary programs are in-place to manage these materials.

Industrial waste composition was estimated based on the amount of industrial waste that was landfilled and recycled (Table IV-10). Information for recycling was obtained from industrial facilities responding to the survey effort. Non-hazardous waste, concrete, ash and sludge were eliminated from the acceptable waste materials for recycling calculations only. All recycled materials are provided as actual totals. The remainder of material disposed in the landfill is categorized as general solid waste.

The largest component of the District’s industrial solid waste stream was ferrous metals (96,709 tons). Non-exempt foundry sand was the next largest component of the industrial waste stream at 23,061 tons. Other significant contributors to the industrial waste stream were wood, cardboard, and non-ferrous metals. The following figure depicts the industrial waste composition for the reference year.

2013 District Estimated Industrial Waste Stream Composition



**Table IV-1
Reference Year Population and Residential/Commercial Generation**

County/Community Name	2013 Population		2013 Generation Rate (lbs/person/day)	2013 District Residential/Commercial
	Before Adjustment	After Adjustment		
Lorain County	302,827	302,827		
City of Vermilion (Erie County portion) <i>Majority residing in Lorain County</i>	4,679	307,506	5.49	307,981
Total		307,506		

Source(s) of information:

Population - Ohio Development Services Agency Office of Research, "2013 Population Estimates by County, City, Village, and Township", May 2014.
 Generation Rate - 2013 residential/commercial generation rate was calculated using the District's average change in per capita generation rate from 2009 - 2012 as reported on Ohio EPA's ADR Review Forms.

Adjustments:

Note: Adjustment: The City of Vermilion had more than 50% of the population living inside Lorain County and a portion living inside Erie County. The population of the City of Vermilion in Erie County (4,679) was added to the District's population total.

Example calculations:

$$\begin{aligned} \text{Total Res/Com Generation} &= \frac{\text{Population} \times \text{Generation Rate (lbs/person/day)} \times 365 \text{ (days/year)}}{2,000 \text{ (lb/ton)}} \\ 307,981 \text{ tons} &= \frac{307,506 \times 5.49 \times 365}{2,000} \end{aligned}$$

**Table IV-2
Industrial Waste Generation Survey Respondents vs. Unreported**

Standard Industrial Classification (SIC) Code	Survey Respondents			Amounts Based Upon Secondary Data (Unreported)				Total Industrial Waste Generated
	# of Industries	# of Employees	Tons of Waste Generated	Generation Rate (T/employee)	# of Industries	# of Employees	Generation Rate (T/employee)	
20	0	0	0	0.00	9	271	13.92	3,772
22	0	0	0	0.00	1	35	9.99	350
23	0	0	0	0.00	11	49	2.80	137
24	1	5	7	0.00	13	104	51.62	5,368
25	0	0	0	0.00	7	290	1.79	519
26	0	0	0	0.00	4	557	17.50	9,748
27	0	0	0	0.00	38	503	6.70	3,370
28	4	47	223	4.74	12	488	12.43	6,066
29	0	0	0	0.00	3	16	7.33	117
30	3	232	4	0.02	29	1,961	7.29	14,296
31	0	0	0	0.00	0	0	3.41	0
32	0	0	0	0.00	18	719	10.55	7,585
33	7	1,684	80,444	47.77	20	442	36.93	16,323
34	8	839	3,151	3.76	72	3,440	11.16	38,390
35	3	573	492	0.86	93	3,649	5.72	20,872
36	2	13	13	1.03	19	969	2.98	2,888
37	2	3,978	2,857	0.72	10	153	3.21	491
38	4	1,044	1,358	1.30	6	351	1.74	611
39	13	779	3,765	4.83	30	147	4.62	679
Total	47	9,194	92,314	10.04	395	14,144	N/A	131,583
								223,897

Source(s) of information:

2012 District Industrial survey responses
Total number of industries and employees from Lexis Nexis Dossier report
Appendix JJ-2 was used to calculate unreported data.

Example calculations (SIC 28):

Survey Respondents:

$$\text{Generation Rate} = \frac{\text{Waste Generated}}{\text{\# of Employees}}$$

$$4.74 = \frac{223}{47}$$

Non-Respondents:

$$\text{Generation Rate} \times \text{Number of Employees (Unreported)} = \text{Tons of Waste Generation}$$

$$12.43 \times 488 = 6,066$$

**Table IV-3
Exempt Waste Generated in the District
and Disposed in Publicly Available Landfills**

Type of Waste Stream	Generation Rate (lb/person/day)	Total Exempt Waste Generation (TPY)
Construction/Demolition	2.01	112,972
Total	2.01	112,972

Source(s) of information:

2013 Landfill and Transfer Station Operation Reports; Table III-1

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Exempt Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

Example calculation:

$$2.01 = \frac{112,972 \times 2,000}{307,506 \times 365}$$

**Table IV-4
Reference Year Total Waste Generation for the District**

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/Commercial	5.49	307,981
Industrial	3.99	223,897
Exempt	2.01	112,972
Total Waste Generation	11.49	644,851

Source(s) of information:

Residential/Commercial- Table IV-1

Exempt -Table IV-3

Industrial- Tons/yr-Table IV-2

Industrial Generation Rate calculated using the following equation:

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Industrial Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

Example calculation:

$$3.99 = \frac{223,897 \times 2,000}{307,506 \times 365}$$

**Table IV-5
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	Net Waste Reduced
None	0	Paper	10,069	Incineration*	Ash	Net Incineration*
		Cardboard	7,509	7	2	5
		Scrap tires	4,820	Composting	Residuals	Net Compost
		Glass	3,794	37,237	0	37,237
		Wood	2,916	Resource Recovery	Ash	Net Resource
		Plastic	1,935	0	0	0
		Commingled	1,381			
		Food	1,227			
		Cloth & Fabrics	1,090			
		Ferrous	981			
		Other	518			
		Electronics	406			
		Non-Ferrous	296			
		HHW	226			
		Used Oil	124			
		Batteries	42			
		Appliances	2			
Subtotal	0		37,336	37,244	2	37,242
Grand Total						74,577

Source(s) of information:
2013 District Annual Report and Residential/Commercial Surveys

**Table IV-6
Reference Year Industrial Waste Reduction in the District**

Type of Waste Source Reduced	TPY	Type of Waste Recycled	TPY	Incineration, Composting, Resource Recovery		Net Waste Processed
				Total Waste Received	Residual Landfilled	
None	0	Ferrous	64,484	Incineration*	Ash	Net Incineration
		Non-Exempt Foundry Sand	15,377	0	0	0
		Wood	4,103	Resource	Ash	Net Resource
		Cardboard	3,300	0	0	0
		Non-Ferrous	1,341	Composting	Residuals	Net Composted
		Misc.	1,034	0	0	0
		Paper	415			
		Commingled	269			
		Plastic	206			
		Rubber	57			
		Batteries	3			
		Glass	1			
Subtotal	0		90,589	0	0	0
Grand Total						90,589

Source(s) of information:
2013 District Annual Report and Industrial Surveys

**Table IV-7
Total Waste Generation Based Upon Disposal Plus Waste Reduction**

Year	Management Method Used (TPY)										Total Waste Generation	
	Source Reduction & Recycling			Yard Waste Composting	Incineration			Landfill Disposal				
	Res/Com	Industrial	Total		Waste Incinerated	Ash Disposal	Net Reduction	Res/Com	Industrial	Exempt		Total
2009	31,499	125,878	157,377	18,577	5	0	0	233,216	39,881	128,520	401,617	577,571
2010	42,162	82,336	124,498	31,056	17	0	0	222,437	24,355	130,164	376,956	532,510
2011	63,038	90,184	153,222	29,700	10	0	0	229,004	29,661	121,649	380,314	563,236
2012	46,277	168,234	214,511	32,198	0	0	0	223,927	48,438	114,526	386,891	633,600
2013	37,341	90,589	127,929	37,237	7	2	5	214,529	47,858	112,972	375,360	540,526

Source(s) of information:
District Annual Reports and Ohio EPA Facility Data Reports.

Sample calculation (2013):

$$540,526 = 127,929 + 37,237 + 375,360$$

Table IV-8
Adjusted Reference Year Total Waste Generation for the District

Type of Waste	Generation Rate (lbs/person/yr)	Tons/Year
Residential/ Commercial	5.15	289,107
Industrial	2.47	138,446
Exempt	2.01	112,972
Total Waste Generation	9.63	540,526

Source(s) of information:

Exempt -Table IV-3

Residential/Commercial and Industrial - Tables III-1, IV-5 and Table IV-6

Example Calculation:

$$\text{Generation Rate (lbs/person/day)} = \frac{\text{Total Waste (tons/yr)} \times 2,000 \text{ (lb/ton)}}{\text{Population} \times 365 \text{ days/yr}}$$

$$9.63 = \frac{540,533 \times 2,000}{307,506 \times 365}$$

Table IV-9
Estimated Residential/Commercial Waste Stream
Composition for the District for the Reference Year

Waste Stream Type	Percentage of the Waste Stream	Tons
Paper and Paperboard	27.4%	79,215
Food Waste	14.5%	41,921
Yard Trimmings	13.5%	39,029
Plastics	12.7%	36,717
Metals	8.9%	25,731
Rubber, Leather, & Textiles	8.7%	25,152
Wood	6.3%	18,214
Glass	4.6%	13,299
Other	3.4%	9,830
Totals	100.0%	289,107

Source(s) of information:

Total tons - Table IV-8

Total MSW Generation (by material) from US EPA Municipal Solid Waste Generation, Recycling, and Disposal in the United States: Facts and Figures for 2012

**Table IV-10
Estimated Industrial Waste Composition for the Reference Year in the District**

Waste Stream Type	TPY	Waste Stream Type	TPY	Waste Stream Type	TPY
Cardboard	4,950	Glass	1	Commingled	402
Paper	621	Plastic	309	Yard Waste	0
Cloth & Fabrics	1	Rubber/Tires	8	Misc.	1,630
Wood	6,153	Food	1	General Solid Waste	2,585
Ferrous Metals	96,709	Batteries	5	Stone/Clay/Sand	0
Non-Ferrous Metals	2,011	Non-Exempt Foundry Sand	23,061	Concrete	0
Subtotal	110,445	Subtotal	23,386	Subtotal	4,616
Grand Total					138,446

Source(s) of information:

District Industrial Waste Survey for calendar year 2013 solid waste generation by type of waste and SIC number. Each industrial waste component was projected using the adjustment factor to account for nonrespondent industries.

Example Calculation:

$$\text{Adjustment Factor} = \frac{\text{Total Industrial Waste Generated (Table IV-8)}}{\text{Total Industrial Waste Generated (Table IV-2 - Survey)}}$$

$$\text{Adjustment Factor} = 1.4997 = 138,446 \div 92,314$$

$$\begin{matrix} \text{Type of Industrial} \\ \text{Waste Generated} \\ \text{(tons)} = \end{matrix} \quad \text{Type of Industrial Waste Generated (Appendix F) x Adjustment Factor}$$

$$4,950 \text{ (tons of cardboard)} = 3,300 \text{ (tons of cardboard from Appendix F)} \times 1.4997$$

V. Planning Period Projections and Strategies [ORC Section 3734.53(A)(5)-(6)]

This Section of the *Plan Update* includes population projections for the District, including communities that are located in more than one county. Projections and estimates are also provided for solid waste generation and recycling for the planning period. Existing District programs and activities that will continue are presented. Most of the detailed descriptions for existing programs refer the reader back to Section IV for details. The details for new programs and activities are described in this section of the *Plan Update*.

A. Planning Period

Solid waste management plans must provide projections for population, waste generation, and waste reduction for a planning period covering a minimum of ten years. Plans must also provide strategies to manage the District's current and foreseen waste management needs of the residents, businesses, and institutions. This *Plan Update* is based on a ten year planning period. The planning period for this *Plan Update* is January 1, 2016 to December 31, 2025. The projections and tables in this *Plan Update* include the years 2013 through 2025.

B. Population Projections

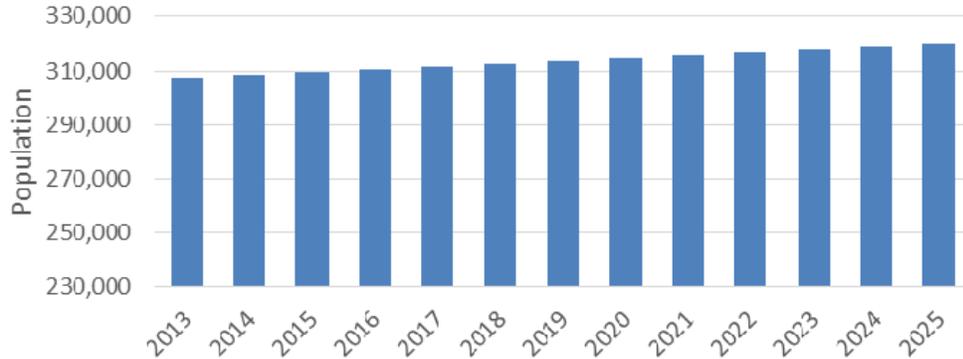
The District's population projections from the reference year (2013) through the end of the planning period are presented in Table V-1. The Ohio Development Services Agency's (ODSA) 2013 population estimates by county, city, village, and township were used to calculate a base population for the District. Using a second ODSA publication which presents population projections by county in 10-year intervals from 2010 to 2040, District population projections were interpolated for intermediate years using straight-line averages.

Ohio Law requires that the population of a political subdivision that lies within two or more solid waste management districts shall be credited to the district where the majority of the population resides. The District's reference year population was therefore adjusted from Lorain County's base population of 302,827 to include the portion of the City of Vermillion's population residing in Erie County (4,679) because the majority of this political subdivision's residents live inside Lorain County. The District's total adjusted reference year population was calculated to be 307,506.

The District anticipates modest but steady growth throughout the planning period. Population is expected to increase by 9,061 residents or 2.9% throughout the planning period. The District is projected to start the planning period in 2016 with a population of 310,596 and end in 2025 with

a total population of 319,657. The following figure presents the estimated District population from the reference year to the end of the planning period.

2013 – 2025 District Population Projections



C. Waste Generation Projections

1. Residential/Commercial Sector

The District’s residential/commercial waste generation projections are presented in Table V-2, “District Residential/Commercial Waste Generation (TPY).” Waste generation is presented for the 2013 reference year and each subsequent year through 2025. In 2013, the District calculated the per capita generation rate based on Ohio EPA’s Facility Data Reports for disposal and from the District’s 2013 Annual District Report for recycling (with adjustments). The following data was used for this calculation:

2013 Disposal tonnage:	214,529
2013 Recycling tonnage:	74,577
2013 Total generation:	289,107
2013 Residential/commercial per capita generation rate:	5.15

The total residential/commercial waste generation calculation for 2013 was 289,107 tons. Waste generation is projected to increase throughout the planning period from 2016 – 2025. The average change in per capita residential/commercial sector generation rates from 2009 to 2013 was used to project generation throughout the planning period.

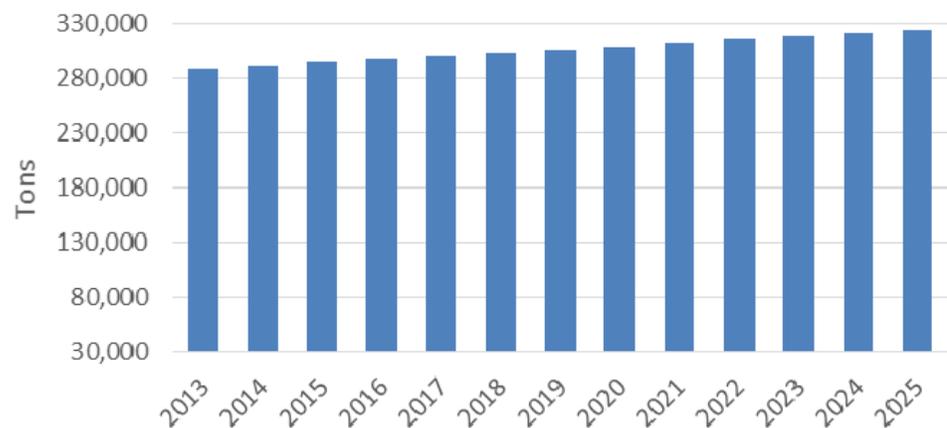
The following table shows the data used to prepare residential and commercial waste generation projections:

Year	Generation	Percent Change	Lbs/Person/Day
2009	283,297	N/A	5.06
2010	295,672	6.23%	5.38
2011	321,752	7.18%	5.76
2012	302,402	-5.97%	5.42
2013	289,107	-4.92%	5.15
2009 – 2013 Average:		0.63%	

Per capita generation rates are anticipated to increase at approximately 0.63% percent annually. Beginning in 2016, the first year of the planning period, residential/commercial waste is projected to be 297,561 tons. This is expected to increase to 324,034 tons in 2025, an 8.9% increase throughout the planning period.

The following graph presents the estimated residential/commercial waste generation throughout the planning period.

2013 – 2025 Residential/Commercial Waste Generation



2. Industrial Sector

The District’s industrial waste generation projections are presented in Table V-3. Industrial waste generation is presented by Standard Industrial Classification (SIC) code for the 2013 reference year through 2025.

The industrial waste generated by each SIC code in 2013 is based on the ratio of waste reported by industries in industrial SIC codes in

Table IV-2. The totals have been adjusted to correspond to the total industrial waste generation in Table IV-8, which is based on volumes recorded by landfills, transfer stations, waste-to-energy facilities, plus recycling and composting.

Industrial waste generation projections are based on historical data trends. The following table presents the rate of change annually reported for disposal. The recession affected industrial sector activity and tonnage fluctuated significantly from 2008 to 2013.

Year	Disposal	Disposal Rate of Change
2008	84,304	-52.7%
2009	39,881	-38.9%
2010	24,355	21.8%
2011	29,661	63.3%
2012	48,438	-1.2%
2013	47,858	

The job market in Ohio has changed and it is no longer realistic to project that industrial sector generation levels will return to pre-economic recession levels. The fastest growing occupations in the Cleveland-Elyria-Mentor MSA from 2010 to 2020 are personal and home care aides, diagnostic medical sonographers, market research analysts/marketing specialists, mental health counselors, and mental health/substance abuse social workers. ODJFS states in the 2013 publication *Manufacturing in Ohio: A Post-Recession Employment Outlook* that new technologies are increasing the efficiency of manufacturing productivity, resulting in the need for less workers. Changing product demand is also a contributing factor to the long-term decline of the industrial sector. An example of changing product demand from ODJFS's publication is the reduced demand for paper as a result of widespread digital communication. Additionally, many manufacturing companies are outsourcing work due to lower production costs outside the U.S. While many manufacturing subsectors are expected to continue declining after the recession, some subsectors are anticipated to grow. These subsectors include food manufacturing, plastic and rubber products, nonmetallic mineral products, fabricated metal products, and transportation equipment.

The effects of the economic recession on industrial sector activity is displayed in the significantly decreased disposal tonnage from 2009 to 2011. Disposal figures reported in 2012 and 2013 reflect a somewhat recovered industrial sector. Rather than expect a full

recovery in manufacturing, the District anticipates disposal figures will change at the same rate as tonnage reported from 2012 to 2013.

Like disposal tonnage, recycling totals fluctuated significantly (see following table). In 2012, an uncharacteristically high quantity of recyclables were reported. Industrial sector recycling projections were calculated to increase at a rate of 0.4% annually which is the rate of change measured from 2011 to 2013.

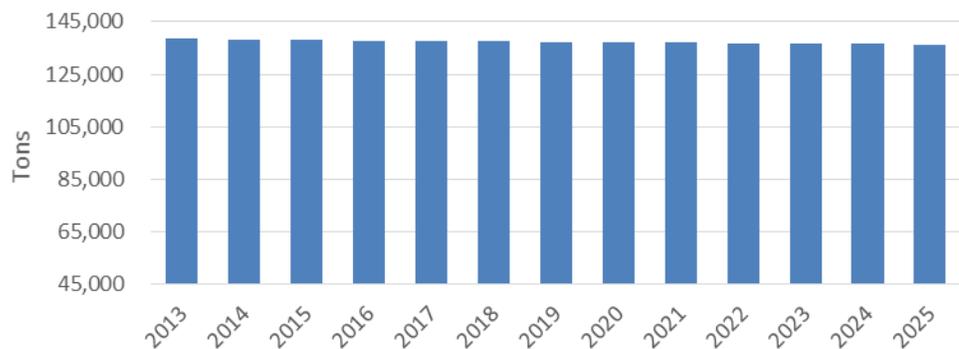
Year	Recycling	Recycling Rate of Change
2009	125,878	
2010	82,336	-34.6%
2011	90,184	9.5%
2012	112,453	24.7%
2013	90,589	-19.4%

} 2011 – 2013 Rate of Change = 0.4%

Tonnage in Table V-3 presents the industrial waste generation projections from the reference year through the end of the planning period.

The District projects industrial waste will decrease from 137,836 tons in the reference year to 136,437 tons in 2025, a 1.01% decrease. The following graph presents the estimated industrial waste generation throughout the planning period.

Figure V-3 – Industrial Generation



3. Total Waste Generation

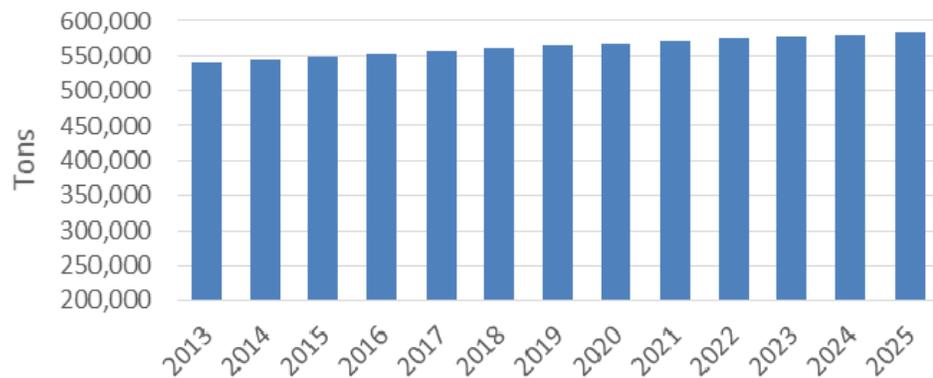
Total waste generation projections for the District during the planning period are presented in Table V-4. The total waste generation calculation for the 2013 reference year was 540,526 tons. This includes residential/commercial waste (289,107 tons), industrial waste (138,446 tons), and exempt waste (112,972 tons).

Exempt waste does not have a direct correlation to population or market/economic factors. Exempt waste is a term used to describe construction and demolition debris, nontoxic fly ash and bottom ash, spent nontoxic foundry sand, slag, and other materials excluded from the definition of solid waste in the Ohio Revised Code (ORC) § 3734.01(E). A trend was not identified in the exempt waste reported from 2009 to 2013. Therefore, the average tonnage from 2009 to 2013 was used as a flat line projection from 2018 to 2025. Tonnage for intermediate years (2014 to 2017) was projected to gradually increase to the 2009-2013 average in equal increments.

The overall generation rate which includes residential/commercial, industrial, and exempt waste generation in pounds per person per day (PPD) for the reference year is 9.63. The projected per capita generation rate will increase slightly to 10.04 PPD in the final year of the planning period. Total waste generation is projected to increase 28,512 tons over the ten-year planning period (2016-2025) from 553,525 tons to 582,037 tons, a 5.1% change.

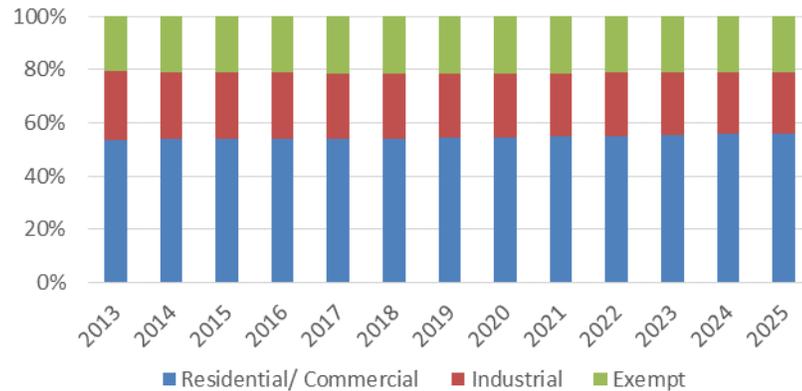
The following figure presents the District’s total waste generation projections throughout the planning period.

Total District Waste Generation (2013 – 2025)



The following figure presents waste generation by sector as a percentage of the District’s total waste generation.

Total District Waste Generation by Sector (2013 – 2025)



D. Projections for Waste Stream Composition

The District does not anticipate any major changes in the composition of the waste stream during the planning period. However, a change in economic conditions or the closure of a plant could greatly impact the industrial as well as residential/commercial projections. During 2012, two major plastics manufacturers closed plants in Lorain County. Additional closures or a significant reduction in workforce could reduce industrial waste generation and recycling in the District.

Responses to the District’s annual industrial sector survey should alert the District to any major changes in the industrial sector. Any significant changes in waste stream composition will be noted in the Annual Report.

E. Waste Reduction and Recycling Strategies through the Planning Period

The District must continue to develop recycling and waste reduction strategies to meet Goal #1 or Goal #2 and Goals #3-7 established in the *1995 State Plan*. The goals include:

Goal #1 Access to Alternate Waste Management Opportunities

The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses. At a minimum the District must provide access to recycling opportunities to 90% of its residential population.

Goal #2 Waste Reduction and Recycling Rates

The District shall reduce and/or recycle at least 25% of the solid waste generated in the residential/commercial sector

and at least 50% of the solid waste generated in the industrial sector.

Goal #3 Source Reduction

Provide informational and technical assistance on source reduction.

Goal #4 Technical and Informational Assistance

Provide informational and technical assistance on recycling, reuse and composting opportunities.

Goal #5 Restricted Wastes and Household Hazardous Waste

Develop strategies for managing scrap tires, yard waste, lead acid batteries and household hazardous waste (HHW).

Goal # 6 Annual Reporting of Plan Implementation

Districts are required to submit an annual report to Ohio EPA.

Goal # 7 Market Development Strategy (Optional)

The following table summarizes all of the District strategies for meeting the 1995 State Plan Goals:

Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Curbside Recycling	LC-1	✓	✓					
Drop-Off Recycling	LC-2	✓	✓					
Yard Waste Management	LC-3	✓	✓	✓	✓	✓		
Household Hazardous Waste (HHW) Collection – The Lorain County Collection Center	LC-4	✓	✓		✓	✓		
Electronics Recycling	LC-5	✓	✓		✓			
Printer Cartridge and Cell Phone Recycling	LC-6	✓	✓		✓			
Scrap Tire Collection	LC-7	✓	✓			✓		
Appliance Recycling	LC-8	✓	✓		✓			
Phone Book Collection	LC-9	✓	✓		✓			
Fluorescent Bulb and Ballast Recycling	LC-10	✓	✓		✓	✓		
Commercial Sector Paper Recycling	LC-11	✓	✓		✓			

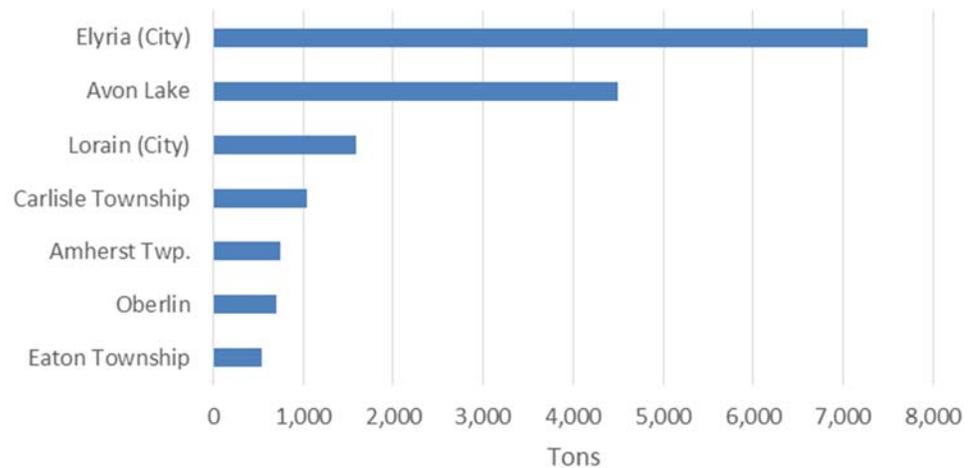
Program	Program #	1995 State Plan Goals						
		#1	#2	#3	#4	#5	#6	#7
Specialized Bottle/Can Collection Program	LC-12	✓	✓		✓			
Residential Recycling Education and Awareness	LC-13			✓	✓			
Recycling/Market Development Grant Program	LC-14							✓
Recycling Revolving Loan Program	LC-15							✓
District Market Development Grants (Commissioner Grants)	LC-16							✓
Community Incentive Grant Program	LC-17		✓	✓	✓			
Volunteer Litter Collection (Lorain County Pride Day)	LC-18							
Open Dump and Scrap Tire Clean-Up	LC-19					✓		
C.A.B. (Clean and Beautiful)	LC-21							
Sheriff's Department Funding	LC-22							
Health Department Financial Assistance	LC-23							
County Assistance (Engineer)	LC-24							
Legal	LC-25							
New Programs Funding	LC-26	✓	✓	✓	✓	✓	✓	✓
Emergency Management	LC-27							
Third Party Financial Audit	LC-28							
Host Community Agreement	LC-29							
Consortium for Waste Services	LC-30				✓			
Zero Waste Planning	LC-31			✓	✓			
Waste Audits Program	LC-32			✓	✓			
Commercial/Industrial Recycling Recognition Program	LC-33							
Business Recycling Round Table	LC-34			✓	✓			
Yard Waste Incentive Grant	LC-35		✓	✓	✓	✓		
Bar/Restaurant Glass Recycling	LC-36	✓	✓		✓			
Lorain County Recycling Scholarship	LC-37							
Multi-Family Housing Unit Recycling Grant	LC-38	✓	✓		✓			
Landfill Capacity Conservation	LC-39	✓			✓			
Energy from Waste Feasibility Assessment	LC-40		✓					
Number of Strategies Per Goal		16	18	6	20	6	1	4

Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District's residential/commercial waste reduction strategies are presented in Table V-5. Actual tonnage was used for the 2013 reference year. Diversion for each program from 2014 to 2025 was projected using the following assumptions:

- *Reduction via Incineration* is projected to remain flat throughout the planning period. A small portion of solid waste is being processed with infectious medical waste. The District does not expect incineration as a management methodology to increase.
- *Curbside Recycling (LC-1)* is projected to increase 5% between 2013 and 2014 based on preliminary reported totals for 2014 from the first three quarters. The average tonnage collected from each quarter was used to project the fourth quarter tonnage. After 2014, tonnage is projected to increase 1% for each year after until 2025. The 1% annual increase is to reflect increasing recyclables collected as a result of the District's annual activities aimed to improve residential sector recycling totals, such as zero waste planning projects, consortiums, waste audits, and other programs in the political subdivisions.
- *Yard Waste Management (LC-3)* from 2014 to 2015 is the average annual tonnage reported from 2010 to 2013. Tonnage increases 2,000 tons annually in 2016 and 2017 and 1,000 tons in 2018 to account for increased organics recycling that will take place at the District's projected new facility that is to be operated by Barnes Nursery. Tonnage from 2019 to 2025 is projected to remain constant.
- *Yard Waste Management Incentive Grant (LC-35)* is projected to begin in 2016, recycling 1,000 tons in its first year. The program is expected to increase tonnage by 500 tons annually to reflect the new and expanded municipal yard waste collection programs to be funded through the incentive grants. The following compost sites are operated by political subdivisions in the District:

2013 Yard Waste Composted at Publicly-Operated Sites



Total tons composted at each publicly-operated sites ranged from 532 tons to 7,272 tons, averaging 2,338 tons per site. Based on the average yard waste composted at publicly-operated sites located in Lorain County, the District feels the projected tonnage for this program is realistic for new or expanded facilities or programs.

- Household Hazardous Waste (HHW) Collection – The Lorain County Collection Center (LC-4)* is projected as two streams (cardboard and general HHW). Cardboard collected at the Collection Center is projected to increase 20% annually until 2016, then remain flat until the end of the planning period. The District began accepting cardboard at the Collection Center during 2012. Cardboard recycling increased from 4.95 tons in 2012 to 15.21 tons in 2013, the program's first full-year. The 20% increase until 2016 is meant to reflect the gradual increase in tonnage as the program matures and more individuals learn that cardboard can be recycled at the Collection Center.

All other materials at the Collection Center are projected to increase 15 tons annually. Since the Collection Center opened in 2010, HHW tonnage has increased an average 39 tons annually. The largest annual increase of 30 tons and 67 tons were recorded in 2011 and 2012, respectively. Tonnage increased 18 tons from 2012 to 2013. The District anticipates that tonnage will increase at least 15 tons annually until the end of the planning period based on historical tonnage trends, greater numbers of residents using the center each year, and the ongoing expansion of acceptable materials.

- Electronics Recycling (LC-5)* has fluctuated since the Collection Center began operating. Tonnage ranged from 219 tons in 2010 to a high of 309 tons in 2011. Electronics recycling has decreased

annually from 2010 to 2013. The District is making efforts to recreate conditions that resulted in the Center's record high. Additionally, electronic waste is projected to increase 30% globally by 2016. Based on the District's efforts to increase electronics recycling, the projected increases in electronic waste, and the increasing number of residents who use the Collection Center each year, electronics recycling is projected to increase by 1 ton annually, which would result in the District collecting approximately the volume of electronics collected in 2011.

- *Printer Cartridge and Cell Phone Recycling (LC-6)* is projected to increase by 0.05 tons annually. The volume of printer cartridges and cell phones accepted at the Collection Center increased an average of 0.16 tons from 2011 to 2013. However, major cell phone providers are beginning buy-back programs for cell phones, so the District anticipates that the annual increase will be less significant in the future.

Scrap Tire Collection (LC-7) totals have fluctuated sporadically from 2010 to 2013 as a result of the agricultural tire collection. Tonnage is projected to increase in equal annual intervals of 12.08 tons from 2013 to 2025. The total at the end of the planning period will equal the District's 4 year-period high of 486 tons of tires reported in 2010.

- *Appliance Recycling (LC-8)* is projected to increase 1% annually. The District's historical averages from 2010 to 2012 for appliance recycling were three times the volume reported in 2013. Large commercial enterprises can singularly affect this material if appliances are replaced on a company-wide basis, which makes predicting the total tons of appliances to be recycled difficult. Based on previously recorded volumes, the District feels that a 1% annual increase is conservative and realistic.
- *Fluorescent Bulb and Ballast Recycling (LC-12)* tonnage has increased an average of 13.45% annually from 2010 to 2013. This program is projected to increase by 13.45% until 2015 then remain flat until the end of the planning period.
- *Commercial Sector Paper Recycling (Abitibi Paper Retriever) (LC-11)* is projected to increase 1% annually as a result of the District's one-on-one waste auditing and technical assistance activities with companies and institutions.
- *Zero Waste Planning (LC-31)* is based on waste reduction benchmarks in the City of Oberlin's Zero Waste Plan which was adopted by resolution in 2014. Tonnage for LC-31 beginning in 2017 reflects increases to the City's waste reduction programs that are not

accounted for by other Lorain County waste reduction initiatives. (For example, the City of Oberlin's curbside recycling is still projected under LC-1 in 2017).

- *Bar/Restaurant Glass Recycling (LC-36)* is projected to begin in 2016. Tonnage is projected to increase 20% annually as the program matures and the quantity of participating establishments grows.
- Other Reported Commercial Recycling from Surveys (Not Linked to District Programming) refers to tonnage reported as recycled but not credited as being diverted by a District-operated recycling or diversion program. This tonnage is projected to increase 1% annually.

The District anticipates that residential/commercial recycling will increase from 74,578 tons in 2013 to 93,014 tons in 2025.

The following strategies address many of the challenges that the District identified with their current solid waste management programs.

RESIDENTIAL/COMMERCIAL RECYCLING AND COLLECTION PROGRAMS

1. LC-1 – Curbside Recycling (State Plan Goals #1 and #2)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Lack of service for multi-family units.
- Inconsistent participation rates.
- Inconsistent communications to residential customers.

To address these challenges, the District will implement the following strategies:

Initiative LC-1.1: Promoting curbside alternatives

To assist apartment dwellers or other residents who do not have curbside recycling, the Collection Center began accepting curbside recyclables. Plastic food and beverage containers as well as detergent bottles marked #1-7, glass food and beverage bottles/jars,

steel food cans and aluminum beverage cans can be placed in one bag or box.

Newspapers, magazines, white copy paper, junk mail, aseptic containers (milk/juice cartons), broken down (flattened) cardboard and boxboard (cereal, cracker, tissue boxes, etc.) can be placed in a second bag or box. These materials can be dropped off inside the Collection Center during normal business hours.

The District also maintains an interactive database and map of commercial establishments that accept materials traditionally accepted by curbside recycling programs, as well as special materials such as clothing/textiles and reusable items. The website, MyEcoVille (www.myecoville.com/ecopoint) allows users to search for recycling opportunities by material or location. For example, a resident can search for all clothing recyclers in a 15 mile radius of Lorain, Ohio. Search results will map each location that accepts used clothing within the specified radius. Clicking on each search result displayed on the map will give the resident additional information, such as the name, address, type of establishment, hours of operation, and directions from the resident's current location.

The District will promote using the Collection Center and MyEcoVille on the website to encourage residents without curbside collection to recycle.

Implementation: 2013-2025

Initiative LC-1.2: Increasing participation rates via advertising

A component of the District's advertising strategy will be to increase participation rates in residential curbside programs. The District may use newspaper advertisements, cable television, and other social media outlets. The District's 2015 Advertising and Marketing Plan is included in Appendix I.

Implementation: 2015 – 2025

Initiative LC-1.3: Improving consistency of messaging to residents

District will work with local residential haulers to ensure that messaging to residential customers is consistent. This could include a mailing to residential customers identifying the recyclable materials accepted.

Implementation: 2015 – 2025

2. LC-2 – Drop-Off Recycling
(State Plan Goals #1 and #2)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Drop-off hours are limited in some cases.
- Not as convenient as curbside program.
- There are no drop-offs located in a number of urban areas (political subdivisions with populations of more than 5,000 residents).

To address these challenges, the District will implement the following strategies:

Initiative LC-2.1: Working with communities to improve convenience and access to drop-off recycling sites

The District will identify urban areas that do not host a drop-off recycling site and provide technical assistance for improving access for residents that do not have curbside recycling.

Implementation: 2015 – 2025

3. LC-3 – Yard Waste Management
(State Plan Goals #1, #2, #3 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Accurate data collection remains a weak point of the program for both the residential programs and the compost facilities.
- Limited access to yard waste recycling.
- Food waste organics are leaving the District for processing.

To address these challenges, the District will implement the following strategies:

Initiative LC-3.1: Improving accuracy of reported yard waste in ADR

The District will continue to use tonnage information supplied in Ohio EPA's annual composting report to monitor the tons composted at registered facilities. The District will identify political subdivisions and institutions that conduct composting activities at un-registered locations. In an effort to obtain more accurate tonnage reports from these activities the District will create a yard waste management fact sheet.

The fact sheet will contain information about how to properly estimate quantities of yard waste, brush and leaves. It will inform entities on how they can report their data to the District using Re-TRAC Connect, an online recycling and composting reporting system. The fact sheet will also contain information about registration requirements and exemptions for compost sites to educate political subdivisions and individuals about whether a composting site complies with Ohio EPA's rules.

The fact sheet will be distributed to political subdivisions and institutions that conduct composting activities but are not required to report annually to Ohio EPA.

Implementation: 2015 – 2025

Initiative LC-3.2: Establishing an in-district organics processing facility

The District issued a request for proposals (RFP) in 2013 for an Organics Processing Recycling facility in Lorain County that can process food waste and other organics. Barnes Nursery was selected to assist the District with Phase I of the three phase project, which included the following tasks:

- Developing site criteria
- Evaluating proposed sites
- Site visit, evaluation, and review
- Site ranking
- Site prioritization
- Evaluating operating technologies
- Prepare an operating pro-forma
- Identify other organics facility needs
- Complete Phase I report for Policy Committee, Board, and other County departments

Phase II is to finalize locations for the facility. Phase III is to identify the operational expenses and anticipated revenues to determine project feasibility.

This project is ongoing. The District anticipates that a new organics processing facility could be in operation in 2016 dependent upon the successful completion of each project phase.

Implementation: 2013 – 2025

4. LC-4 – Household Hazardous Waste (HHW) Collection – The Lorain County Collection Center
(State Plan Goals #1, #2, #4 and #5)

This program will continue (see description in Section IV). There were no challenges presented in Section IV for this program.

To address these challenges, the District will implement the following strategies:

Initiative LC-4.1: Evaluating and addressing access to Collection Center programs

The District will assess whether the Collection Center provides adequate access to residents District-wide. If the Collection Center does not provide adequate coverage, the District will consider working with commercial sector businesses to establish drop-off locations potentially in the southern portion of Lorain County for special materials. The District will work with adjacent solid waste management districts to identify opportunities for regional programming.

Implementation: 2015 – 2025

5. LC-5 – Electronics Recycling
(State Plan Goals #1, #2 and #4)

This program will continue. The challenge for this program presented in Section IV included:

- The District has not identified any viable recycling opportunities for console televisions or televisions with a screen greater than 27”.

To address this challenge, the District will implement the following strategy:

Initiative LC-5.1: Obtaining a recycling vendor for televisions with screens >27"

The District will regularly research (on an annual basis) vendors that can accept console televisions or televisions with a screen greater than 27". If the District is able to identify a financially sustainable outlet to manage these items, the District will begin accepting the items at the Collection Center. The District will continue searching for a viable vendor as long as there is a need to recycle these items. If the District finds that these types of televisions are nearly obsolete, this initiative will no longer be pursued.

Implementation: 2014 – 2025, or as needed.

6. LC-6 – Printer Cartridge and Cell Phone Recycling
(State Plan Goals #1, #2 and #4)

This program will continue (see description in Section IV). There were no challenges presented in Section IV for this program.

7. LC-7 – Scrap Tire Collection
(State Plan Goals #1, #2, and #5)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- This program is expensive to operate.
- Stopping the abuse of the program.

To address these challenges, the District will implement the following strategies:

Initiative LC-7.1: Identifying and pursuing grant funding

The District will annually identify and pursue opportunities for grant funding to offset the costs of tire collection activities.

Implementation: 2014 – 2025

Initiative LC-7.2: Minimizing abuse of the tire recycling program

Tire retailers receive a fee from consumers to manage scrap tires when a new tire is purchased and an old tire must be disposed. The District suspects that some tire retailers are keeping the fee and delivering scrap tires to the District's scrap tire collection sites. The

District will address this issue by posting signage at collection sites that states tire retailers may not use the program. Staff at manned sites will be instructed to ask those transporting scrap tires if the origin of the tires is from a business. The District will keep records of individuals using the program to attempt to identify the offending businesses.

To ensure the scrap tire recycling program is not being abused, the District's Environmental Crimes Unit (ECU) has employed the use of FlashCAMs at unmanned sites to catch individuals abusing the program. FlashCAMs are solar-powered motion-activated cameras that can snap a photo of offenders or their license plates during the day or night. The FlashCAMs also have a built in audio warning system that deputies can activate if they see an illegal action taking place on the remote monitoring system to warn perpetrators that they are on camera. The quantity of FlashCAMs owned by the ECU is limited; the equipment will continue to be used to discourage improper usage of the scrap tire collection program as long as the FlashCAMs are not needed to combat more serious solid waste related offenses such as illegal dumping elsewhere in the District.

Implementation: 2014 – 2025

8. LC-8 – Appliance Recycling
(State Plan Goals #1, #2 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Finding new ways to promote the program and reaching out to a broader audience.
- Making sure the list of companies is up-to-date.

To address these challenges, the District will implement the following strategies:

Initiative LC-8.1: Program promotion

The District will promote the Appliance Recycling program on its website and through periodic mailings, advertisements, presentations, and other mass promotional activities.

Implementation: 2014 – 2025

Initiative LC-8.2: Updating list of appliance recyclers

The Collection Center only accepts microwave ovens. The District will annually update the list of companies that accept appliances for recycling. The District will call entities on the list to verify that they are still in operation, as well as use other resources to gather information about new establishments that accept appliances.

Implementation: 2014 – 2025

Initiative LC-8.3: Identifying partnerships

The District will identify opportunities to partner with local agencies to collect appliances to be recycled from Lorain County residents.

Implementation: 2014 – 2025

9. LC-9 – Phone Book Recycling
(State Plan Goals #1, #2 and #4)

This program will continue (see description in Section IV). There were no challenges presented in Section IV for this program.

10. LC-10 – Fluorescent Bulb and Ballast Recycling
(State Plan Goals #1, #2, #4 and #5)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- The program is costly and reduces a small percentage of the overall waste stream.

The District is not currently recommending any changes to this program.

11. LC-11 – Commercial Sector Paper Recycling
(State Plan Goals #1, #2 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Program promotion.
- Cost of containers is high and affects the ability of the District to provide enough containers.

To address these challenges, the District will implement the following strategies:

Initiative LC-11.1: Program promotion

The District will promote the Commercial Sector Paper Recycling program on its website, in its annual report booklet, through presentations, and by targeted promotional activities.

Implementation: 2014 – 2025

Initiative LC-11.2: Identifying and pursuing grant funding

To offset the costs associated with purchasing recycling containers, the District will identify and pursue grant opportunities, such as the Coca-Cola/KAB Recycling Bin Grant.

Implementation: 2014 – 2025, or as needed.

Initiative LC-11.3: Following up with participants

The District will prepare an information sheet for participants which includes information on beginning or expanding a workplace paper recycling program. The District will contact recipients of recycling bins within 6 months of bin delivery to follow up with businesses, ensure bins are being used appropriately, and answer any recycling-related questions.

Implementation: 2014 – 2025

12. LC-12 – Specialized Bottle/Can Collection
(State Plan Goals #1, #2 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Program promotion.
- Difficulty determining the amount of bottles and cans collected.
- Cost of recycling containers.

To address these challenges, the District will implement the following strategies:

Initiative LC-12.1: Program promotion

The District will promote the Specialized Bottle/Can Collection program on its website, through presentations, and by targeted promotional activities. The District will also develop a list of ideal candidates that have the potential to maximize the use of the bins and directly market this program to identified candidates.

Implementation: 2014 – 2025

Initiative LC-12.2: Obtaining program statistics

To obtain more complete data on the tonnage diverted by this program, the District will establish relationships with schools, businesses, and organizations using the bottle and can collection containers. The District will request that recycling totals (if supplied by hauler) are entered into Re-TRAC Connect in exchange for use of the bins.

Implementation: 2014 – 2025

Initiative LC-12.3: Pursuing grant funding

To offset the costs associated with purchasing recycling containers, the District will identify and pursue grant opportunities, such as the Coca-Cola/KAB Recycling Bin Grant.

Implementation: 2014 – 2025, or as needed

13. LC-36 – Bar/Restaurant Glass Recycling Pilot Project
(State Plan Goals #1, #2 and #4)

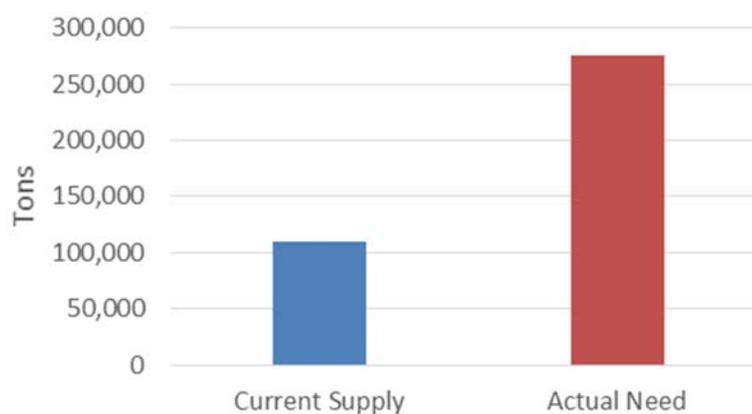
This is a new program. Glass is one of the heaviest components in the waste stream. The following table shows that glass containers weight approximately 1,000 pounds per cubic yard.

Material	Lbs/CY³
Food Waste	1,070
Glass Containers (Uncrushed)	1,000
Mixed Paper (Loose)	875
Yard Waste (Raw/Mulched)	350
Textiles	240
Steel Cans (Uncrushed)	150
Aluminum Cans (Uncrushed)	62
Plastic Soda Bottles (Loose)	35

Each cubic yard of glass diverted contributes more significantly to increasing the District's diversion rate than almost all other materials commonly found in the residential/commercial waste stream (except food waste).

Ohio EPA implemented a statewide glass recycling initiative as a result of the 2011 *Ohio Glass Recycling Study Final Report*. The initiative aims to create a competitive advantage for Ohio glass manufacturers by improving the way solid waste districts and communities manage their glass. The following figure presents the total tons of glass cullet needed by Ohio manufacturers each year and the total tons they have been able to secure from Ohio and surrounding states.

Tons of Glass Cullet Per Year in Ohio



Ohio manufacturers are only able to obtain approximately 110,000 tons of glass cullet from Ohio and surrounding states, which is only less than 40% of the glass cullet needed for operations. Ohio manufacturers either use virgin materials or purchase the remaining 165-185,000 tons of glass cullet needed each year from outside the region. Increasing glass recycled statewide would provide lower cost materials to manufacturers and increase recycling rates, while conserving raw materials and energy needed to extract and transport virgin materials.

The Ohio EPA has committed \$1 million in grant funding to start and/or expand glass recycling in bars, restaurants, and hotels in Ohio. Collection vehicles and collaborations to increase or improve route densities would be eligible for grant funding.

Statewide, many solid waste management districts and communities are taking advantage of Ohio EPA's grant funding to implement glass recycling initiatives, including:

- Butler SWMD (Grant award: \$8,798)
 - 36 YD glass only drop-off for public and Oxford area bars.
 - Worked with apartment complex managers to implement or expand recycling (New service = 559 apts; Expanded service: 306 apts).
- City of Columbus (Grant award: \$37,500)
 - Glass/aluminum recycling pilot program for up to 40 bars/restaurants on High Street.
- Columbus Downtown Development Commission (Grant award: \$15,829)
 - Event recycling equipment leasing program for community groups holding events in city parks.
- Hamilton SWMD (Grant award: \$15,000)
 - Expanded bar/restaurant recycling program (est. 2009).
 - District increased glass recycling 200% with program (~52 tons per month from sector).
 - Provides durable recycling containers and technical assistance.
 - Decals for participants to advertise commitment to recycling.
- Huron SWMD/Christie Lane Industries (Grant award: \$36,000)
 - Expanded existing small business and marina recycling program through purchase of a more efficient collection truck, cart tippers, and conveying equipment to be used at their MRF.
- Logan SWMD (Grant award: \$72,000)
 - Constructed and operates glass drop-off at MRF.
- Miami County (Grant award: \$16,665)
 - Established bar/restaurant recycling program.
 - Provides durable glass recycling containers to participants and technical assistance.
 - Window decals/coasters for participants to advertise commitment to recycling.
 - Performs semi-annual check-ins to ensure business continues to recycle.
 - Provides glass-only roll-off for county processing facility.

- Rumpke of Ohio (Grant award: \$250,000)
 - Purchased and installed innovative glass pre-cleaning system for the Cincinnati MRF that prepares the glass for final processing at the Dayton glass processing facility.
 - Significantly reducing paper labels, trash and other contaminants from the material.
- Wyandot SWMD (Grant award: \$142,238)
 - Purchased new roll-off truck and 2 roll-offs for glass recyclables.
 - Expanded and improved existing glass recycling program.
 - Purchased business glass recycling containers and educational materials.

The District analyzed the potential for a successful bar/restaurant glass recycling program by identifying the total locations with active liquor permits in densely developed areas (Amherst, Avon, Avon Lake, Elyria, Lorain, North Ridgeville, Oberlin, and Wellington). The District determined that there are 266 individual locations with active liquor permits in classes D1 through D5 (for bars, restaurants, hotels, and nightclubs) in the targeted areas.

According to the U.S. EPA's estimates on residential/commercial waste stream composition which are based on national averages, approximately 4.8% of waste disposed in landfills each year is comprised of glass. In 2013, the District's residential/commercial sector disposed of 289,107 tons of waste, including an estimated 13,877 tons of glass. There is significant potential to increase glass diversion in Lorain County.

Phased Project Approach for Bar/Restaurant Glass Recycling Program

The District will develop this project in Phases.

Initiative LC-36.1: Phase I – Pilot Study Assessment

During 2015-2016, the District will complete a detailed assessment of the bar/restaurant recycling program pilot project. The assessment will include the following:

- **Survey of potential participants** – The District will send a survey to approximately 260 establishments to determine their level of interest in glass recycling. The goal of the survey

is to ascertain whether bar and restaurant owners would participate in a pilot study, be willing to assist with measuring the program's success and evaluate the impact of the program on their employees. The survey would also request what size containers could work for initial collection within the bar and/or restaurant and permanent storage prior to collection.

- **Identification of processors** – The District will identify and request a tour of processors within a reasonable transport distance of Lorain County. The District will then create a Request for Interest in processing pilot study glass. A processor would then be selected for further negotiation regarding the processing of bar and restaurant glass. The negotiation may include minimum requirements for quantities of glass, cost per pound, quality, transportation costs and other items.
- **Review of potential locations for pilot study** – The District will first send a letter to all political subdivisions asking whether they would be interested in being a candidate for the pilot study. The District would review the political subdivisions expressing an interest in having their restaurant and bar businesses participate. The political subdivisions expressing interest would receive top priority in the District's review. A final selection would depend on bar and restaurant density, number of participants, ease of collection, location and distance from the processor, and other factors.
- **Grant funding** – The District will evaluate opportunities to obtain grant funding for containers and collection vehicles if determined to be necessary. The District would apply for the funding only after a processor had signed an agreement to accept glass from the pilot project.
- **Phase I Report** – The District will prepare a Phase I report for the Board of County Commissioners and the Policy Committee presenting the results of the Phase I assessment. The Phase I assessment will be completed by December 2016.

At any time during the Phase I, if it is determined that there are no processors willing to accept glass from bar and restaurants participating in the pilot study at a reasonable price and transport costs that are acceptable to the District, or there are not enough

interested bars and restaurants willing to participate, the Commissioners have the right to delay or terminate Initiative LC-36.1

Implementation: 2014 – 2016

Initiative LC-36.2 - Phase II – Pilot Study Implementation

Phase II of LC-36 – Bar and Restaurant Glass Pilot Study will include the following tasks:

- **Final Processor Negotiation** – The final processor contract would need to be in place prior to completing Phase II.
- **Selection of Transporter for Glass** – The District will determine the most cost effective method of collection from the following options:
 - Going out for bid for private hauler services.
 - Determining if municipality wants to collect and transport glass.
 - District provided service.
 - Collection Center may serve as a transfer point until trailers are fully loaded; full trailers could be sent to the selected glass processor.
- **Selection of Locations** – The District working with municipalities and the Bar and Restaurants will evaluate potential locations for the pilot study. The pilot study may be offered in more than one location. The District will conduct on-site interviews with bar and restaurant owners to gauge interest and set up participants. The District will then obtain commitments from participating restaurants and bars through a memorandum of understanding. The memorandum will be developed by the District and will present the responsibilities of each participant and the length of time for the pilot study.
- **Ordering Equipment** – The District will determine the equipment needs of the pilot study after gaining commitments from the bars and restaurants. Once the entire equipment list is complete an application would be made for grant assistance to implement the pilot study.
- **Phase II Pilot Study Implementation Report** – The District will prepare a Phase II Pilot Study Implementation Report identifying the processor, the transporter, the participants and

the equipment needs. The report will be presented to the Board of County Commissioners for a “Go/No Go” decision.

Implementation: 2016 – 2017

Initiative 36.3 - Phase III – Implementation and Data Collection

Phase III of the pilot study will be the tasks necessary for implementation.

- **Delivery of equipment** – The District will deliver the necessary equipment to the participating bars and restaurants.
- **Vendor Notification** – The District vendors for collection, storage, transport and hauling will be notified on the start date of the pilot study.
- **Measurement of Weight** – The District will have the vendor weigh the containers before collection to determine the amount of material being collected. The weights will be recorded and forwarded to the District electronically. The District will do a random survey of participants to determine whether containers and locations are appropriate. The District will also help business owners evaluate the amount of extra time that is required to recycle the glass.
- **Progress Reports** – The District will prepare quarterly progress reports to the Policy Committee and Board of Commissioners. The reports should identify number of participants, weights of materials collected and any other aspect of the program that is recorded.

After the “Go/No Go” decision is made by the Lorain County Board of Commissioners, there will be regular opportunities to evaluate the program. If the Commissioners determine it is in the best interest of the District to modify or terminate this pilot study for any reason during this planning period, it is under their purview to make that decision without any repercussions from the State of Ohio, municipalities or participants of the program.

Implementation: 2017 – 2019

RESIDENTIAL/COMMERCIAL EDUCATION AND AWARENESS PROGRAMS

1. LC-13 – Residential Recycling Education Program (State Plan Goals #3 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- The District must coordinate changes to their web pages and social media accounts through another County department.

To address these challenges, the District will implement the following strategies:

Initiative LC-13.1: Obtaining autonomy over website/social media management

The District will work with county management to evaluate if there is a solution that would give the District the ability to directly make updates to content on the website or its social media accounts without needing to coordinate changes through another County department to ensure timely adjustments are made.

Implementation: 2015 – 2016

RESIDENTIAL/COMMERCIAL MARKET DEVELOPMENT PROGRAMS

1. LC-14 – Recycling/Market Development Grant Program (State Plan Goal #7)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Staff time to research, promote and implement grants.
- Grant funding has been cut back statewide and grants are more competitive.
- Many grants require a funding match.

To address these challenges, the District will implement the following strategies:

Initiative LC-14.1: Streamlining internal program management

The District will designate a staff member to lead this initiative and keep an annual timeline of grant informational meetings and submission deadlines. Designating a staff member to manage grant opportunities should reduce the overall time commitment required by the District by streamlining the process.

The District will draft a list of potential grant recipients (i.e., specific businesses, organizations, or municipalities) or types of grant recipients (i.e., “local parks”) for each grant opportunity identified. The District will promote the grant opportunities to targeted establishments and provide technical assistance on completing grant applications.

Implementation: 2014 – 2025

Initiative LC-14.2: Matching grant funding

The District will use excess carryover funding when available to match grant funding. Prior approval is required in order for the District to provide grant funding in cases where the District is not the primary grant applicant or recipient.

Implementation: 2014 – 2025 (as needed)

**15. LC-15 – Recycling Revolving Loan Program
(State Plan Goal #7)**

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Finding qualified and interested businesses to participate in the program.

To address these challenges, the District will implement the following strategies:

Initiative 15.1: Program promotion

The District will encourage the Revolving Loan Committee to reach out to organizations that regularly come into contact with small businesses or environmentally-conscious businesses, such as the Great Lakes Innovation and Development Enterprise or the Oberlin Project. The purpose of reaching out to such organizations will be to

promote the availability of the Recycling Revolving Loan Program and seek assistance on identifying loan candidates.

Implementation: 2015 – 2025 (as needed)

Initiative 15.2: New program focus on companies that prolong the life of materials or equipment

In conjunction with Initiative 15.1, the District will develop a new, additional focus for this program directed at providing start-up money for small businesses interested in fixing or repairing broken equipment or appliances, making products out of salvaged materials (e.g., lumber), etc. These types of businesses have the potential to keep materials from landfill disposal and provide useful products (usually at reduced costs) for District residents.

The District will also begin compiling a list of volunteers who have expertise in fixing computers, household appliances, tools, toys, etc. and who would be willing to come together once a month and provide free repair services to District residents. “Community Glue” is an example of this type of project which could serve as a model for the District. The ultimate objective for this aspect of Initiative 15.2 is to have a local organization maintain the volunteer list, organize events, and create a website which would support these activities. Loan funding would be made available for the organization undertaking these tasks. (See <http://communityglueworkshop.org/> for the website of Community Glue.)

Implementation: 2015 – 2025

16. LC-16 – District Market Development Grants (Commissioner Grants)
(State Plan Goal #7)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Continuing the program at the same level of funding.
- Funding for maintenance of the materials and equipment is not provided by the District.

To address these challenges, the District will implement the following strategies:

Initiative 16.1: Annual evaluation to increase funding

The District will evaluate funding for this program on an annual basis. If the District determines that increases in the level of funding are warranted, the additional funding will come from the New Programs Funding budget line item.

Implementation: 2015 – 2025, or as needed

Initiative 16.2: Revising grant guidelines

The District will revise guidelines for the District Market Development Grant to include that the District will evaluate on a case-by-case basis whether funding for the maintenance of materials or equipment originally purchased under the District Market Development Grant will be available. Grant guidelines are included in Appendix K.

Implementation: 2015 – 2017

RESIDENTIAL/COMMERCIAL GRANT PROGRAMS**1. LC-17 – Community Incentive Grant Program**

(State Plan Goals #2, #3 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Recycling tonnage has declined over the past few years despite providing significant levels of funding to communities to improve programs.
- Not all communities participate in the VBS program.
- Funding does not pay for a community's entire recycling program.
- This program requires a large financial commitment from the District.
- Communities and haulers often report conflicting totals.

Recycling tonnage declined in 2013 due to the renovation and expansion of the Lorain County Recyclery and the establishment of the Lorain County consortiums. In addition, Oberlin had a fire that destroyed all recycling and refuse collection vehicles. During the interim, the City unfortunately had to discontinue processing of

curbside recyclables. The District anticipates that moving forward, curbside recycling totals will increase naturally.

To address the remaining four challenges, the District will implement the following strategies:

Initiative 17.1: Identifying the City of Lorain's Barriers to VBS

During the last planning period, the District met with the City of Lorain to encourage the City to implement a more modernized volume-based collection system in order to provide their residents with the best available recycling and waste services. The City declined the District's offer to assist with transitioning to the improved VBS system, which would also qualify the City to earn Community Incentive Grant Funding at twice its current rate.

The District and Policy Committee will organize another meeting with the City of Lorain to discuss opportunities to move to a VBS system. The District and the City should identify the barriers to implementing the program. Opportunities to start the City with pilot routes will be considered as one option.

Implementation: 2015 – 2016

Initiative 17.2: Providing additional funding to communities for diversion

Funding for this program is based on tons recycled and District revenues. The District has been approached by communities to increase funding. The funding methodology provides a fair incentive to communities to increase recycling tonnage. The District is considering incentive funding to increase recycling for yard waste. This is discussed under LC-35.

Implementation: Ongoing

Initiative 17.3: Identifying and reducing discrepancies in data reporting

The District will cross-check tonnage reported by political subdivisions and haulers and discuss any discrepancies identified to reduce future reporting errors.

Implementation: 2015 – 2025

Guidelines for the District’s Community Incentive Grant are included in Appendix J.

2. LC-35 – Yard Waste Recycling Incentive Grant
 (State Plan Goals #2, #3, #4 and #5)

This is a new grant program. According to the U.S. EPA’s estimates on residential/commercial waste stream composition which are based on national averages, approximately 13.7% of waste disposed in landfills each year is comprised of yard waste. In 2013, the District’s residential/commercial sector disposed of 289,091 tons of waste, which included an estimated 39,605 tons of yard waste based upon the composition percentage cited above. There is significant potential to increase yard waste diversion in Lorain County because many communities do not offer yard waste service at the curb.

The Yard Waste Recycling Incentive Grant will be available to the District’s cities, villages, and townships. The objective of the grant is to encourage political subdivisions to implement a yard waste collection program or improve an existing collection program.

The District supports and promotes the following hierarchy for yard waste programs in the County:



Initiative 35.1: Developing grant guidelines

The District will develop grant guidelines that include how political subdivisions qualify for funding, how the amount of funding for each

political subdivision is calculated, how funds must be used, and timeframes for applying for the incentive grant.

Implementation: 2015

Initiative 35.2: Implementing grant program

The District will provide competitive grant funding to political subdivisions to implement, expand, or improve a yard waste collection/composting program. The level of funding will be higher during the first three years of the grant program in order to provide adequate funding for implementing or upgrading yard waste programs. After the first three years, funding will decrease and serve as a supplement for maintaining yard waste programs. The funding schedule is as follows:

- 2016 and 2017: \$200,000 annually
- 2018: \$150,000
- 2019-2025: \$75,000 annually

Implementation: 2016-2025

Initiative 35.3: Providing technical assistance

The District will provide technical assistance to political subdivisions regarding how to implement or upgrade yard waste collection systems in order to maximize the effectiveness of the grant program.

Implementation: 2016 – 2025

3. LC-38 – Multi-Family Housing Unit Recycling Grant
(State Plan Goals #1, #2 and #4)

The District recognizes that recycling for residents residing in multi-family housing is important to the successful implementation of recycling and waste diversion goals. Recycling at multi-family housing (MFH) locations can be challenging for the recycling hauler and apartment managers due to the following:

- Limited space to store recycling containers inside apartments or MFH units.
- Lack of space to locate recycling dumpsters in areas traditionally reserved for parking spaces.
- Transient population.
- Tight turning and overhead restrictions for collection vehicles.

- Education requirements to ensure residents are using the recycling program properly.

The District has traditionally operated limited drop-off locations as an outlet for recycling for residents living in multi-family housing units due to the focus on extensive curbside recycling at single family households. Recognizing there is a large portion of recyclables that are not being captured from residents of MFH units, the District initiated a drop-off recycling location at the Collection Center. The District determined that in addition to the few drop-off locations in the District and the Collection Center drop-off, additional infrastructure is needed to support recycling at multi-family residences.

The District will provide technical support and some financial support for this program as follows:

Initiative LC-38.1: Providing grant funding to political subdivisions

The District will provide grant funding to interested political subdivisions to implement a drop-off or recycling program targeted at MFH units. The MFH recycling program would be required to manage a minimum of at least five materials identified in this plan as highly amenable for recycling for the residential and commercial sector.

The multi-family recycling program could be as simple as providing specially colored or marked bags for recycling and having a location where recycling bags can be placed curbside for the political subdivision's hauler to collect. The program could include a recycling drop-off dumpster strategically located in the community. Funding for this initiative will be available for the first five years of the planning period. Grant funding will be limited to \$75,000 per year. The grants would be competitive and there would be no guarantee of funding each year. Grant applications that will receive priority are as follows:

- The best programs providing the greatest opportunity for MFH unit recycling, as determined by the District.
- Political subdivisions that agree to provide recycling data from the MFH unit recycling program to the District. In the first year estimates on recycling totals will be accepted.
- Programs with an education component would receive high priority.
- Programs that identify a method to continue the program on a self-sustaining basis.

- Political subdivisions that establish programs in line with the requirements in LC-38.2 will also be eligible for the funding to create self-sustaining contracting for the collection of recyclables.

Implementation: 2016 – 2020

Initiative LC-38.2: Providing grant funding to MFH unit property managers

The District will work with apartment property managers to implement a recycling program in an apartment complex or multi-family complexes. The recycling program could include the following:

- Containers for residents to collect recyclables in their household.
- A contract with a hauler to place a recycling dumpster at the multi-family complex.
- An education program to prepare residents for the recycling opportunity.

The District will make contact with apartment complex managers through either a survey or advertising program. The apartment complex would be eligible for one year's recycling support including the cost for homeowner containers and the collection costs of recyclables. The requirement would be that the apartment complex would sign a three year agreement with the hauler for the service. Year one would be covered by the District; years two and three would be covered by the apartment complex. The District will target three to five apartment complexes annually. Funding will be allocated at \$35,000 per year.

Implementation: 2016 – 2020

RESIDENTIAL/COMMERCIAL LITTER ABATEMENT PROGRAMS

1. LC-18 – Volunteer Litter Collection (Lorain County Pride Day)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- The program has limitations with regard to availability of volunteers and frequency of clean-ups.
- The program has limited funding allocated.

The District implemented a new program (see LC-21) which lends volunteer groups a trailer containing the tools and supplies needed to complete litter collection and beautification activities for free. Volunteer groups can perform activities similar to those done on Lorain County Pride Day year-round. The availability of this program may reach more volunteers who were previously unable to attend Pride Day because of scheduling conflicts.

To address the other challenge identified in Section IV, the District will implement the following strategy:

Initiative 18.1: Creating public-private partnerships

The District will work with private sector entities to help increase the budget for Pride Day activities.

Implementation: 2015 – 2025

Initiative 18.2: Continuing KAB/KLCB activities

The District will continue to be a Keep America Beautiful (KAB) affiliate and hold affiliate status of the Keep Lorain County Beautiful chapter. At least one member from the District will continue to attend meetings of the KLCB Advisory Board.

Implementation: 1995 – Ongoing

**2. LC-19 – Open Dump and Scrap Tire Clean-Up
(State Plan Goal #5)**

This program will continue (see description in Section IV). There were no challenges presented in Section IV for this program.

3. LC-20 – Litter Strike Force Program

This program will be discontinued.

4. LC-21 – C.A.B. (Clean and Beautiful)

This program will continue (see description in Section IV). Soon after the C.A.B. program was launched, the District expanded the program's scope by partnering with the Second Harvest Food Bank and the Lorain County Dog Kennel. The District used the C.A.B. trailers to collect donations for each organization at publicized food drives/donation events. One of the food drives was held in conjunction with the District's paper shredding event. Due to the positive response and popularity of the program during the year it

was launched, two additional C.A.B. trailers were added to the fleet in 2014. Throughout the planning period, C.A.B. trailers will be used for litter collection and beautification activities. When trailers are not being used by community groups for their primary purpose, the District will lend trailers to organizations for food or donation drives. There were no challenges presented in Section IV for this program, but to further improve the program, the District will implement the following initiative:

Initiative 21.1: Measuring program statistics

The District will weigh empty trailers to establish a “tare” weight, or the weight of each empty trailer. After clothing or other donation drives, the District will attempt to obtain the full weight of trailers when possible in order to obtain measurable statistics on the program. The District will work to develop a relationship with a business that operates a scale, such as a transfer station or scrap metal yard that will permit the District to weigh full trailers after collection events.

Implementation: 2015 – 2025

RESIDENTIAL/COMMERCIAL OTHER PROGRAMS

1. LC-22 – Sheriff’s Department Funding

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Working with haulers to ensure flow control provisions are followed.
- Keeping up with the number of violations.

To address these challenges, the District will implement the following strategies:

Initiative 22.1: Prosecuting offenders

The Sheriff will take legal action against violators of District flow control regulations or other violations to the Ohio Revised Code related to solid waste to ensure District rules are being followed.

Implementation: 2015 – 2025

2. LC-23 – Health Department Financial Assistance

This program will continue (see description in Section IV). The challenge for this program presented in Section IV included:

- Ensuring complete reports on Department activities.

To address this challenge, the District will implement the following strategy:

Initiative 23.1: Ensuring receipt of complete annual reports

The District will provide the Health Departments with a review of their final reports annually. Any health department that does not have a complete report as determined by the District may have funding withheld the following year. The District will notify Health Departments about this change to funding requirements. The Health Departments or Districts must also complete and submit the Ohio EPA funding form, which is included in Appendix L.

Implementation: 2015 – 2025

Initiative 23.2: Requiring an annual Scope of Services

The District will also begin requiring a Scope of Services each year which will define the activities to be performed by the health departments on behalf of the District. The Scope of Services, which will be a condition for receiving District funding, will include a timetable for initiating and completing activities, and metrics (or measures) to be used for evaluating effectiveness.

Implementation: 2015 – 2025

3. LC-24 – County Assistance (Engineer)

This program will continue (see description in Section IV). To improve this program, the District will implement the following strategy:

Initiative LC-24.1: Ensuring receipt of complete annual reports

The County Engineer will file an annual report with the District identifying how funds provided for road repairs were used. If a complete report is not submitted the District may withhold funding until the report is completed.

Implementation: 2015 – 2025

Initiative 24.2: Requiring an annual Scope of Services

The District will also begin requiring a Scope of Services each year which will define the activities to be performed by the County Engineer Department on behalf of the District. The Scope of Services, which will be a condition for receiving District funding, will include a timetable for initiating and completing activities, and metrics (or measures) to be used for evaluating effectiveness.

Implementation: 2015 – 2025

4. LC-25 – Legal

This program will continue (see description in Section IV). The challenge for this program presented in Section IV included:

- Outside professional legal services can incur significant costs to the District.

To address this challenge, the District will implement the following strategy:

Initiative 25.1: Monitoring expenditures

The District will monitor the use of legal services and their monthly costs.

Implementation: 2015 – 2025

5. LC-26 – New Programs Funding (formerly *General Plan Implementation*)

(State Plan Goals #1, #2, #3, #4, #5, #6 and/or #7)

This program will continue (see description in Section IV). There were no challenges presented in Section IV for this program.

6. LC-27 – Emergency Management

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- The District does not have a separate and more detailed Disaster Debris plan outside of the Disaster Debris chapter of the Lorain County Emergency Management Plan.

- Contracts need to be reviewed annually and updated accordingly to assure that they are valid when a disaster strikes.

To address these challenges, the District will implement the following strategies:

Initiative 27.1: Drafting a Disaster Debris plan

The District will draft a separate and more detailed Disaster Debris plan to accompany the Disaster Debris chapter of the Lorain County Emergency Management Plan.

Implementation: 2014 – 2017

Initiative 27.2: Annually updating contracts and quotes

The District will review contracts and update price quotes annually to ensure they are valid if a disaster occurs.

Implementation: 2013 – 2025

7. LC-28 – Third Party Financial Audit

This program will continue (see description in Section IV). There were no challenges presented in Section IV for this program.

8. LC-29 – Host Community Agreement

This program will continue (see description in Section IV). The District will periodically review and renegotiate the terms of this Agreement with the owner of the Landfill.

**9. LC-30 – Consortium for Waste Services Program
(State Plan Goal #4)**

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Kickoff on January 1 caused some start-up problems.
- There were hauler issues with communications.

To address these challenges, the District will implement the following strategies:

Initiative 30.1: Improving consortiums and inviting all District political subdivisions to participate

The District will focus on improving each successive consortium for waste services by improving issues that arose during previous consortiums. In addition, all political subdivisions will be informed of the consortium and invited to participate either in the existing consortium or a new consortium if warranted.

Implementation: 2015 – 2025 as needed.

10. LC-31 – Zero Waste Planning
(State Plan Goals #3 and #4)

This program will continue (see description in Section IV). The District will identify candidates (political subdivisions) to participate in a zero waste planning activity and fund planning efforts. The challenges of this program presented in Section IV include:

- Obtaining buy in from leadership for zero waste planning may be challenging politically in some areas.
- Political subdivisions need to devote resources in order to achieve intermediate goals in ZWP.

To address these challenges, the District will implement the following strategies:

Initiative 31.1: Promoting zero waste concepts on behalf of community leaders

The District and/or its representatives will attend meetings with community leaders and the public to promote the benefits of adopting a zero waste plan and address questions or concerns related to implementing a zero waste strategy.

Implementation: 2015 – 2025 as needed.

Initiative 31.2: Providing technical assistance to draft and adopt a ZWP

The District will provide technical assistance to communities interested in drafting and adopting a ZWP, which may include helping communities identify solutions for resources (time, funding, personnel) needed to achieve goals outlined in the ZWP.

Implementation: 2015 – 2025 as needed.

11. LC-37 – Lorain County Recycling Scholarship
(State Plan Goals #3 and #4)

This is a new program. The District worked with DoppstadtUS to raise funding for and establish the Lorain County Recycling Scholarship. DoppstadtUS is a Lorain County-based company that engineers and manufactures recycling and processing equipment.

To participate, students must write an essay on a topic related to recycling, litter/litter prevention, or sustainability. The scholarship will fund three awards in the following amounts:

- First place: \$1,500
- Second place: \$1,000
- Third place: \$500

DoppstadtUS will provide funding for the scholarship for 2016, 2017, and 2018. The District will contribute a total of \$25,000, beginning with \$10,000 in 2016 and \$5,000 annually from 2017 to 2019. The scholarship fund will operate as an endowment.

The scholarship will be open to all 12th grade public and private High School seniors in Lorain County who are enrolling at the Lorain County Community College, students currently enrolled at LCCC or the University Partnership through LCCC, and currently enrolled LCCC Post-Secondary Enrollment (PSEO) students. In order to receive the award, students must be enrolled at LCCC at the time when scholarships are awarded.

Implementation: 2016 – 2020

Commercial/Industrial and Other Waste Reduction Strategies

COMMERCIAL/INDUSTRIAL WASTE REDUCTION/RECYCLING AND EDUCATION PROGRAMS

Industrial waste reduction projections are presented in Table V-6. Projections are based on trends in the District's historical data. In 2008 to 2010, the economic recession affected industrial waste generation and recycling totals. Data from these years will not be used in projections moving forward. In 2012, the District reported uncharacteristically high quantities of recycling. For these reasons, the District is using a 0.4% annual escalator, which is based on the rate of change between the

District's industrial sector recycling from 2011 (90,184 tons) and 2013 (90,589 tons).

In 2016, the District projects the industrial sector will recycle 91,680 tons. By the end of the planning period, the industrial sector is projected to recycle 95,034 tons.

The District operates several existing programs that provide information and technical assistance to industrial facilities on source reduction, reuse and recycling.

1. LC-32 – Waste Audits
(State Plan Goals #3 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Advertising this service.
- Staff time to conduct the assessments.

To address these challenges, the District will implement the following strategies:

Initiative 32.1: Program promotion

The District will promote waste audits on its website, at Business Roundtable meetings, in the Annual Report booklet, and by targeted promotional activities. The District will also develop a list of ideal candidates to target for promotion of this service that could benefit from waste audits by reviewing disposal data reported on the District's annual commercial, institutional, and industrial survey. Entities reporting high volumes of waste will be directly contacted about receiving a free waste audit.

Implementation: 2015 – 2025 as needed.

Initiative 32.2: Using a template for audits

A waste audit report conducted by the District in 2012 will serve as a template for future waste audits. Using an established methodology will reduce staff time needed to complete the audit.

Implementation: 2015 – 2025 as needed.

2. LC-33 – Commercial/Industrial Recycling Recognition

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Analyzing business recycling programs to determine winners.
- Making sure that businesses that did not win do not get discouraged.

To address these challenges, the District will implement the following strategies:

Initiative 33.1: Restructuring program

The District will restructure the recognition program. The current program functions like a contest with winners and losers. The restructured program will allow businesses to apply for membership in the District's Green Business Directory by submitting an application which will be developed by the District. The Green Business Directory will, at a minimum, be updated annually. The "Green Business Directory" will recognize environmentally sustainable businesses by providing the business's contact information and a description of the environmental initiatives they employ. At a minimum, the directory of businesses will be available on the District's website. Membership in the Green Business Directory will provide free advertising to businesses that join, creating an incentive to the business community to reduce waste and participate in the recognition program.

In order to join the Green Business Directory, businesses must submit a response to the District's annual recycling survey. The District will add questions to its survey to identify businesses that accept materials for recycling and which businesses are seeking recycled materials to sustain operations.

Implementation: 2015 – 2025

Initiative 33.2: Providing window decals

The District will provide window decals for businesses that meet the requirements of the recognition program so businesses can advertise their commitment to recycling to their customers.

Implementation: 2015 – 2025

3. LC-34 – Business Recycling Roundtable Program
(State Plan Goals #3 and #4)

This program will continue (see description in Section IV). The challenges of this program presented in Section IV include:

- Building interest for participants, speakers and presenters.
- Scheduling meetings during dates and times when the most potential participants can attend.

To address these challenges, the District will implement the following strategies:

Initiative 34.1: Program promotion

The District will generate interest in Business Recycling Roundtable meetings on its website, through targeted advertisements, and in the Annual Report booklet. The District will work with the Lorain County Chamber of Commerce, the Lorain Growth Partnership, and other local business associations to promote upcoming events.

Implementation: 2015 – 2025

Initiative 34.2: Summarizing and posting meeting highlights

The District will create a summary of each Business Recycling Roundtable meeting, including topics discussed, available resources, and contact information for presenters and electronic copies of presentations. The summary will be posted on the District's website for businesses that were unable to attend the meeting due to scheduling conflicts.

Implementation: 2015 – 2025

4. LC-39 – Landfill Capacity Conservation Program
(State Plan Goals #1 and #4)

This is a new program. In 2013, exempt waste and construction and demolition debris (C&DD) made up nearly one-third of the total tonnage disposed at the Lorain County Landfill. These wastes are excluded from the definition of solid waste in the Ohio Revised Code, and therefore, not a priority for solid waste districts in Ohio. However, Ohio is required to minimize its reliance on landfills by increasing efforts to reduce, reuse, and recycle. Materials not defined as solid waste are disposed in the Lorain County Landfill in

quantities that significantly impact landfill capacity. The District is implementing the following initiatives to conserve capacity:

Initiative 39.1: Determining the origin of landfill waste

The District will determine the origin of waste accepted at the Lorain County Landfill through a combination of surveying, interviews with generators or haulers, or a waste sort. The District will identify the types of materials being landfilled and estimate the quantities of each material.

Implementation: 2016 – 2018

Initiative 39.2: Determining the composition of landfill waste

Using results obtained through Initiative 39.1, the District will provide a data collection system for significant generators of waste that is accepted at the Lorain County Landfill in order to track the amount generated, disposed, recycled, and reused. This type of information would facilitate establishing higher rates of recovery.

Implementation: 2016 – 2025

Initiative 39.3: Identifying need for local material exchange network

Based on the results of the District's research regarding the types and quantities of materials generated and managed at the landfill, the District will determine whether a waste exchange database or directory should be developed. The District will develop a database or directory if it is determined that such a directory or database could significantly reduce the volume of wastes disposed annually.

Implementation: 2018 – 2025

Initiative 39.4: Developing a sample SOP for political jurisdictions

The District will develop a sample standard operating procedure (SOP) document for materials recycling specification for publicly-funded construction and demolition projects within a political jurisdiction. The District will educate political jurisdictions about the importance of reducing waste from C&D projects and the benefits of establishing an SOP addressing the issue. Once adopted by political jurisdictions, private sector construction and demolition projects could also be encouraged to adopt the specification.

Implementation: 2016 – 2025

Initiative 39.5: Providing technical assistance

The District will provide technical assistance to contractors and construction firms to improve recycling of construction and demolition debris, using Ohio EPA best practices and resources for exempt and construction/demolition materials.

Implementation: 2016 – 2025

5. LC-40 – Energy from Waste Feasibility Assessment
(State Plan Goal #2)

This is a new program. Lorain County has the benefit of having the third largest landfill in the State of Ohio and relatively low tipping fees. Many energy from waste (EFW) technologies are capable of further reducing the amount of waste being landfilled after recyclables have been diverted through traditional programs, while also generating energy from a renewable resource. Most EFW technologies have historically been considered economically unfeasible in regions where tipping rates are low.

The Lorain County Solid Waste Management District (LCSWMD) will explore potential improvements in waste reduction via EFW technologies and/or solicit interest from other organizations to implement these technologies locally. The District is creating this new program because there have been a number of interested parties approach the District to implement these potential technologies. The District wants to be able to use the funds allocated to analyze the proposal and perhaps provide seed funding if there is an organization that has a legitimate technology and financing. The District may provide technical assistance and possibly financial assistance in developing a local project using one of the following technologies:

- Anaerobic digestion
- Plasma gasification
- Pyrolysis
- Thermal gasification
- Waste-to-energy incineration
- Refuse-derived fuel (RDF)
- High-solids, dry fermentation anaerobic digestion and in-vessel composting

Implementation: 2016 – 2020

**Table V-1
District Population Projections**

Year	County Population Lorain County	Erie County Population Adjustment (Vermillion)	Total District Population
2013	302,827	4,679	307,506
2014	303,885	4,651	308,536
2015	304,942	4,624	309,566
2016	306,000	4,596	310,596
2017	307,057	4,568	311,626
2018	308,115	4,541	312,656
2019	309,172	4,513	313,685
2020	310,230	4,485	314,715
2021	311,250	4,454	315,704
2022	312,270	4,422	316,692
2023	313,290	4,390	317,680
2024	314,310	4,358	318,668
2025	315,330	4,327	319,657

Source(s) of information:

Population - Ohio Development Services Agency Office of Research, "2013 Population Estimates by County, City, Village, and Township", May 2014.

Population projections in 10-year intervals 2000 - 2040 - Ohio Development Services Agency, Ohio County Profiles.

County	County % Change 2013-2025	County Annual % Change
Lorain	4.1%	0.344%
Erie	-7.5%	-0.628%

Population projections for years between the 10-year intervals provided in the publication cited above have been made based upon the average annual change in population within each interval.

Table V-2
District Residential/Commercial Waste Generation (TPY)

Year	District Population	Per Capita Generation Rate	Total Residential/Commercial Waste Generation (TPY)
2013	307,506	5.15	289,107
2014	308,536	5.18	291,901
2015	309,566	5.22	294,719
2016	310,596	5.25	297,561
2017	311,626	5.28	300,427
2018	312,656	5.32	303,317
2019	313,685	5.35	306,232
2020	314,715	5.38	309,171
2021	315,704	5.42	312,094
2022	316,692	5.45	315,042
2023	317,680	5.49	318,014
2024	318,668	5.52	321,011
2025	319,657	5.55	324,034

Source(s) of information:

District Population- Table V-1

Per Capita Generation Rate- IV-8 (2013)

Annual average change in the District's R/C per capita generation rate from 2009 - 2013 (0.629%) is the factor used to increase per capita generation rate from 2012 - 2030.

Sample calculation (2014):

District population x per capita generation rate (lb/person/day) x 365 days/year x 1 ton/2,000 lbs = Total Residential/Commercial Generation (tons)

2014 Total R/C Waste Generation = 308,536 x 5.18 x 365 x 1 ÷ 2,000 = 291,901

Per Capita Generation Rate in Previous Year x (1 + Average Rate of Change in Per Capita Generation Rate from 2009-2014) = Per Capita Generation Rate in Current Year

5.15 x (1 + 0.00629) = 5.18

**Table V-3
Projected Industrial Waste Generation**

SIC Category	Year												
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
20	2,333	2,329	2,326	2,322	2,319	2,316	2,313	2,311	2,308	2,305	2,303	2,301	2,299
22	216	216	216	215	215	215	214	214	214	214	213	213	213
23	85	85	85	84	84	84	84	84	84	84	84	84	84
24	3,324	3,319	3,314	3,309	3,304	3,300	3,296	3,292	3,288	3,285	3,282	3,278	3,275
25	321	320	320	320	319	319	318	318	318	317	317	317	316
26	6,027	6,018	6,009	6,001	5,993	5,985	5,977	5,970	5,964	5,957	5,951	5,945	5,940
27	2,084	2,081	2,078	2,075	2,072	2,069	2,067	2,064	2,062	2,060	2,058	2,056	2,054
28	3,889	3,883	3,877	3,871	3,866	3,861	3,856	3,852	3,847	3,843	3,839	3,836	3,832
29	73	72	72	72	72	72	72	72	72	72	72	72	71
30	8,842	8,829	8,816	8,803	8,791	8,780	8,769	8,758	8,749	8,739	8,730	8,722	8,714
31	0	0	0	0	0	0	0	0	0	0	0	0	0
32	4,690	4,683	4,676	4,670	4,663	4,657	4,652	4,646	4,641	4,636	4,631	4,627	4,622
33	59,836	59,744	59,656	59,572	59,491	59,414	59,340	59,269	59,202	59,139	59,078	59,021	58,968
34	25,687	25,647	25,610	25,573	25,539	25,505	25,474	25,444	25,415	25,387	25,362	25,337	25,314
35	13,211	13,191	13,171	13,153	13,135	13,118	13,101	13,086	13,071	13,057	13,044	13,031	13,019
36	1,794	1,791	1,788	1,786	1,784	1,781	1,779	1,777	1,775	1,773	1,771	1,769	1,768
37	2,070	2,067	2,064	2,061	2,058	2,056	2,053	2,051	2,048	2,046	2,044	2,042	2,040
38	1,218	1,216	1,214	1,212	1,211	1,209	1,207	1,206	1,205	1,203	1,202	1,201	1,200
39	2,748	2,744	2,740	2,736	2,732	2,729	2,725	2,722	2,719	2,716	2,713	2,711	2,708
Totals	138,446	138,235	138,031	137,836	137,648	137,469	137,298	137,135	136,980	136,833	136,693	136,562	136,437

Source(s) of information:

Generation by SIC Code for 2013 from Table IV-2 adjusted to correspond to total industrial waste on Table IV-8

Based on ADR reports and District records, 2012-2013 rate of change in industrial sector disposal was -1.2% and 2011-2013 Rate of change in industrial sector recycling was 0.4%.

Sample calculation (2014):

(2013 recycling tons x 1.004) + (2013 disposal tons x 0.988) = 2014 generation
 (90,589 tons x 1.004) + (47,858 tons x 0.988) = 138,235 tons

**Table V-4
Total Waste Generation for the District During the Planning Period (in
TPY)**

Year	Residential/ Commercial	Industrial	Exempt	Total Waste	Generation Rate (lbs/person/day)
2013	289,107	138,446	112,972	540,526	9.63
2014	291,901	138,235	114,691	544,827	9.68
2015	294,719	138,031	116,410	549,160	9.79
2016	297,561	137,836	118,129	553,525	9.83
2017	300,427	137,648	119,847	557,923	9.88
2018	303,317	137,469	121,566	562,353	9.92
2019	306,232	137,298	121,566	565,096	9.94
2020	309,171	137,135	121,566	567,873	9.95
2021	312,094	136,980	121,566	570,640	9.97
2022	315,042	136,833	121,566	573,441	9.98
2023	318,014	136,693	121,566	576,274	10.00
2024	321,011	136,562	121,566	579,139	10.02
2025	324,034	136,437	121,566	582,037	10.04

Source(s) of information:

Residential/Commercial Table V-2

Industrial Table V-3

Notes: In 2014, Lorain County awarded \$3 million from the Ohio Housing Finance Agency's Neighborhood Initiative Program for the demolition of derelict homes. Funding could pay for up to 160 demolitions.

Exempt Waste in 2018 is projected as the average reported from 2009-2012. A straight line projection for intermediate years was calculated. Tonnage is projected to remain flat from 2018 to 2025.

Sample calculation (2013):

Total Waste = Residential/Commercial + Industrial + Exempt

$$540,526 = 289,107 + 138,446 + 112,972$$

$$\text{Generation Rate (lb/person/day)} = \frac{\text{Total Waste Generated (tons)} \times 2,000 \text{ pounds /ton}}{\text{Population} \times 365 \text{ days/year}}$$

$$9.63 = \frac{540,526 \times 2,000}{307,506 \times 365}$$

**Table V-6
Industrial Waste Reduction Strategies**

Strategy	Program #	Type of Material Reduced/Recycled	Tons of Source Reduction/Recycling															
			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025			
Industrial Sector Technical Assistance and Education Programs: Recycling																		
Industrial Recycling	n/a	AL, FM, NFM, P, OCC, W, OP, OM	90,589	90,951	91,315	91,680	92,047	92,415	92,785	93,156	93,528	93,902	94,278	94,655	95,034			
Total			90,589	90,951	91,315	91,680	92,047	92,415	92,785	93,156	93,528	93,902	94,278	94,655	95,034			

AL=Aluminum; FM=Ferrous Metals; NFM=Non-Ferrous Metals; P= Plastic; OCC=Corrugated Cardboard; OP=Office Paper; W=Wood

Source(s) of information:

2013 tons - Table IV-6

Average rate of annual increase (0.4%) calculated using 2011-2013 ADR Review Forms

Sample calculation (2014): Tons of industrial recycling in previous year x rate of change in industrial recycling = Tons of recycling in estimated year
 90,589 tons x 1.004 = 90,951 tons

VI. Methods of Management: Facilities and Programs to be Used [ORC Section 3734.53(A)(7)-(12)]

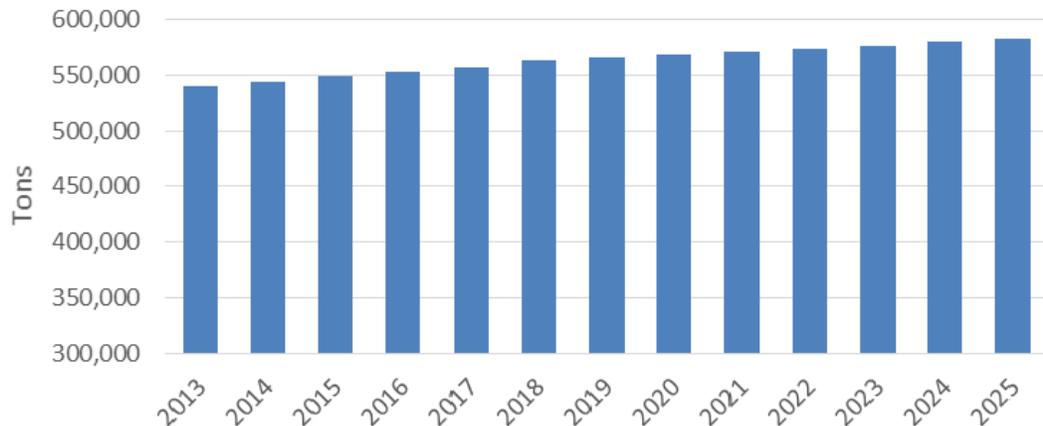
A. District Methods for Management of Solid Waste

Table VI-1 presents the waste management methods used and capacity needed for each year of the planning period. The net tons to be managed by the District in 2013 were calculated to be 540,526 tons. The District projects approximately 553,525 tons of solid waste will need to be managed in 2016 and by the end of the planning period in 2025 the District will need to manage approximately 582,037 tons. The projected increase in tonnage is due to the anticipated increase in residential/commercial waste generation throughout the planning period.

The District will manage the projected waste through recycling, transferring, yard waste composting, incineration, and landfilling. The landfill total in Table VI-1 for 2013 (375,360 tons) is calculated by subtracting recycling and yard waste composted, plus the volume of waste reduced by incineration. The District projects a need of 385,951 tons of landfill capacity in 2016. The level of landfill capacity necessary to manage District waste increases to 393,985 tons in 2025.

The following figure shows the projected total net tons to be managed by the District throughout the planning period.

Total Net Tons to be Managed by the District (2013 – 2025)



The following figure shows the projected tons to be landfilled throughout the planning period.

**Total Landfill Tons to be Managed by the District
(2013 – 2025)**

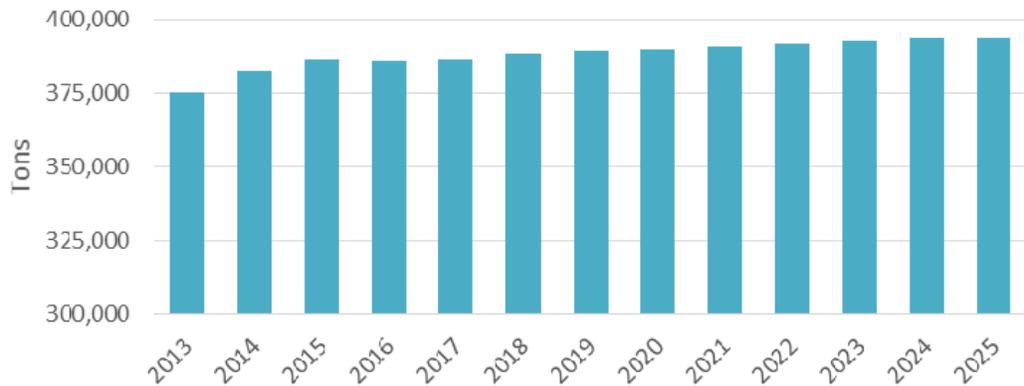


Table VI-2 presents a summary of waste management methods for residential/commercial solid waste generated by the District. This sector’s waste was managed by recycling, organics composting, transferring, incineration, and landfilling. In 2013, the residential/commercial sector generated a total of 289,107 tons. This sector will generate 297,561 tons of solid waste at the beginning of the planning period and 324,034 tons of solid waste by the end of the planning period.

The following figure presents the management methods used to manage residential/commercial waste generation throughout the planning period.

2013 – 2025 Residential/Commercial Waste Management Methods

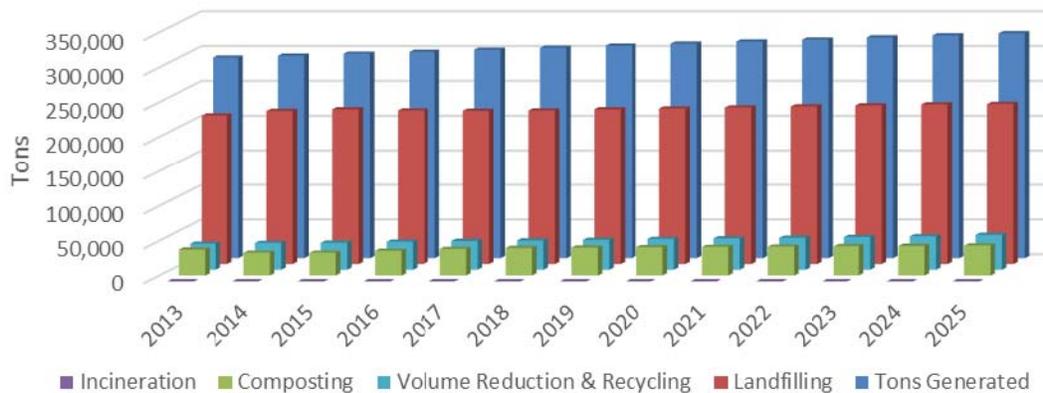


Table VI-3 presents a summary of waste management methods for industrial solid waste generated by the District. This sector’s waste was managed by recycling, transferring, and landfilling. In 2013, the industrial sector generated a total of 138,446 tons. This sector will generate 137,836 tons of solid waste at the beginning of the planning period and 136,437 tons of solid waste by the end of the planning period.

The following figure presents the management methods used to manage industrial waste generation throughout the planning period.

2013 – 2025 Industrial Waste Management Methods

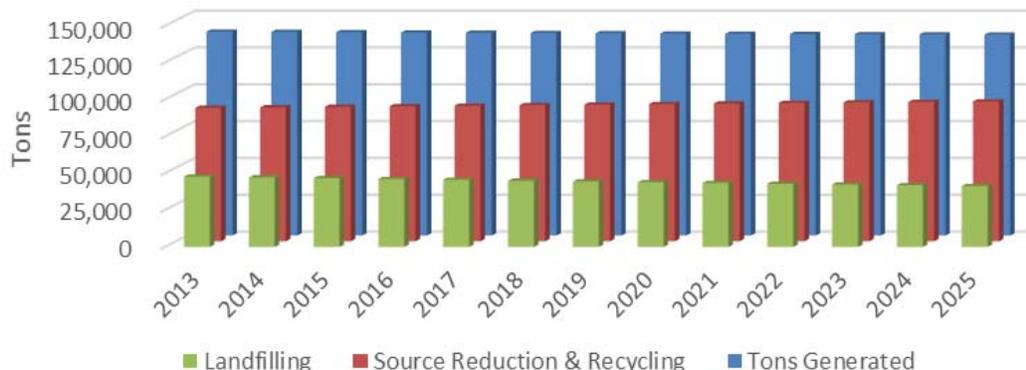


Table VI-4A, “Waste Management Method: Landfill,” presents the reference year landfill capacity utilization and anticipated landfill capacity needs throughout the planning period. The projections in Table VI-4A present the landfill capacity demands from 2013 to 2025. Total tons landfilled includes waste that was directly hauled to landfills, transferred waste, and ash produced through incineration.

The Republic Lorain County Landfill was designated to receive all District generated solid waste during the reference year. The District does not anticipate changes to this designation throughout the planning period. For the purposes of the analysis in Table VI-4A and future year projections on landfill capacity, the District assumes that each facility that managed District waste during the reference year will manage the same percent of total tons as during the reference year unless a landfill ceases operations or runs out of permitted airspace before the end of the planning period.

The Lorain County Landfill has sufficient remaining airspace to manage 100% of the District’s landfilling needs throughout the planning period, but is projected to manage only 94% of the District’s landfilled waste. The majority of waste was delivered to other landfills or transfer stations by haulers that were granted waiver agreements. American Landfill in Stark County and Noble Road Landfill in Richland County are projected to manage approximately 5% of the District’s waste. The remaining one percent of the District’s landfill capacity needs will likely be provided by up to nine other facilities listed in Table VI-4A.

Table VI-4B, “Waste Management Method: Incineration,” presents the total tons projected to be managed by incineration throughout the planning period. The District used one incinerator in the reference year to manage a negligible quantity (7 tons) of residential/commercial sector waste. The

District does not anticipate major changes in the quantity of waste managed using incineration. The total tons in Table VI-4B are projected to remain flat until the end of the planning period.

Table VI-4C, "Waste Management Method: Transfer," presents the total tons projected to be managed at transfer stations. In the first year of the planning period, the District projects approximately 7,586 tons of solid waste will be managed by five out-of-district transfer facilities. This increases to 7,765 tons during the final year of the planning period. Transfer stations manage approximately 2% of the District's landfilled waste.

Table VI-4D, Waste Management Method: Recycling," presents the total tons projected to be managed by recycling. The District is projected to recycle an average of 138,012 tons of material annually throughout the planning period. In the first year of the planning period, the District projects approximately 132,021 tons of materials will be recycled. This increases to 145,000 tons during the final year of the planning period.

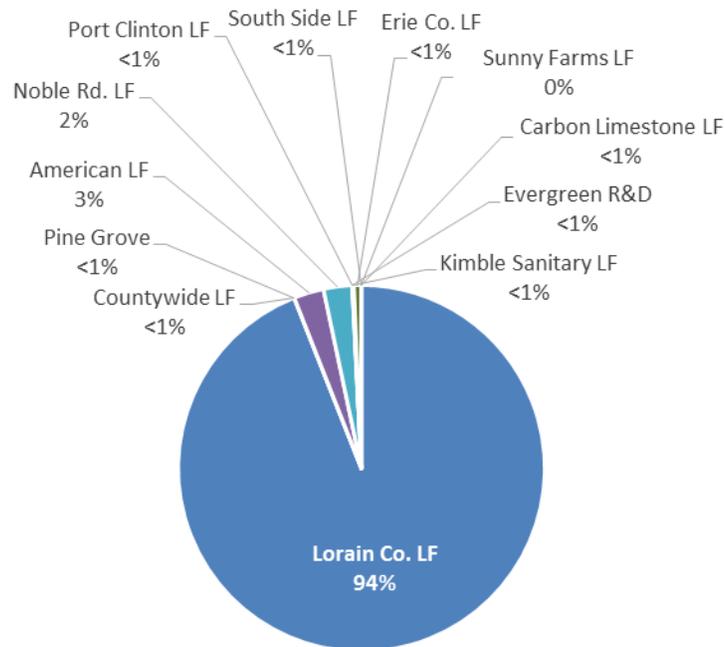
Table VI-4E, "Waste Management Method: Composting," presents the total tons projected to be managed by composting. The District is projected to compost an average of 40,398 tons of organics annually throughout the planning period. In the first year of the planning period, the District projects approximately 35,548 tons will be composted. This increases to 43,048 tons during the final year of the planning period. At the time that this *Plan Update* was prepared, the District was working with a private sector entity on the first phase of a multi-phase project that aims to site, construct, and begin operating an in-district organics processing facility. If this project is successful, it will provide additional in-district processing capacity for organic materials.

B. Demonstration of Access to Capacity

During the 2013 reference year, twelve landfills managed 375,360 tons of solid waste generated by District residents, businesses and industries. This includes waste that was directly hauled to landfills as well as tonnage that was transferred from transfer stations or from incinerators/treatment facilities. One of the landfills was located in the District, ten were located out-of-district, and one was located in Indiana.

The following figure presents the landfills used by the District in 2013.

2013 Landfills Used by District



Regional Capacity Analysis

The purpose for the regional capacity analysis is to evaluate and demonstrate that the District has access to disposal capacity during the planning period. The District’s assessment of regional landfill capacity demonstrates there is sufficient permitted capacity available to manage the District’s solid waste until December 31, 2025.

The Lorain County Landfill is designated to accept solid waste generated from within the District. The Lorain County Landfill accepts approximately 94% of the waste generated in-district as a result of designation waivers. As of December 31, 2013, the landfill had 16.7 years of remaining capacity based on the 2013 rate of receipts.

The District projects an average annual need of approximately 390,415 tons or 585,622 cubic yards of landfill capacity during the planning period. Over the ten year planning period (2016 – 2025), the District will dispose of approximately 3.90 million tons or 5.86 million cubic yards of solid waste. Using a 3 to 1 conversion factor for cubic yards to tons and applying an average 2:1 compaction ratio for landfilled solid waste, the District will need approximately 2.93 million cubic yards of airspace capacity over the ten year planning period.

Using these calculations, the Lorain County Landfill could manage the District’s entire landfill needs for the planning period. The landfills used by the District had an average remaining lifespan of more than 48 years.

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

Table VI-5, Implementation Schedule for Facilities, Strategies, Programs and Activities: Dates and Description, presents descriptions and dates of operation for each facility, program or activity presented in the *Plan Update*.

Programs for residential/commercial recycling, source reduction and awareness, the recycling, reuse and composting program, grants, industrial source reduction/recycling and awareness and other programs are presented in Table VI-5. These programs are discussed in detail in Sections IV and V.

D. Identification and Designation of Facilities

Table VI-6 includes the Facilities Identified and Current Designations. The District has designated the Republic Lorain County Landfill to receive all Lorain County generated solid waste. The District will issue a general waiver to industrial facilities classified in SIC code 20 and 22-39 or North American Industrial Classification System (NAICS) manufacturing codes 31, 32 and 33.

All source separated recyclables are authorized for delivery to any community drop-off, resource recovery facility, material recovery facility, transfer facility for collection and delivery to a legitimate recycling facility, broker, processor or manufacturer using post consumer products as a raw material. Yard waste may be delivered to any registered, licensed, permitted yard waste management facility. In the event the District evaluates, selects or sites a Class II compost facility for food and other organic wastes, the Commissioners are authorized to establish the new facility as a designated facility.

E. Authorization Statement to Designate

The Board is authorized to establish facility designations in accordance with Section 343.013 and 343.014 of the Ohio Revised Code.

F. Waiver Process for the Use of Undesignated Facilities

Any person may apply for a waiver from the designation requirements established in this *Plan Update*. The Waiver Process clarifies who may request a waiver and the information to be provided. The application for the waiver must explain the basis for the Board to grant the waiver request. Any person or the legislative authority of a municipal corporation or township may request a waiver authorizing the delivery of solid waste generated within the District to an undesignated solid waste facility. The waiver request shall include the following:

1. The name, address, telephone number and email address of the person requesting the waiver.
2. The source and name of the generator of the solid waste included in the waiver request.
3. The name, address, telephone number and email address of the undesignated solid waste facility where solid waste generated within the District will be delivered if the waiver is approved by the Board.
4. The estimated annual tonnage of the solid waste that will be delivered to the undesignated solid waste facility covered by the waiver request.
5. An explanation describing how approval of the waiver request is not inconsistent with the projections contained in the District's initial or amended Plan under divisions (A)(6) and (7) of section 3734.53 of the Revised Code.
6. An explanation describing how the approval of the waiver request will not adversely affect implementation and financing of the District's initial or amended Plan pursuant to the implementation schedule contained in the District's initial or amended Plan under division (A)(12)(a) of section 3734.53 of the Revised Code.

Any waiver granted by the Board shall be included in a waiver agreement by and between the Board and the person granted the waiver. The waiver agreement shall contain the terms and conditions upon which the waiver was granted and the payment by the grantee of the waiver fee, if any, assessed on each ton of solid waste covered by the waiver.

G. Siting Strategy for Facilities

The District's Siting Strategy includes the following:

Submission and Review of Plans and Specifications and Application of Siting Strategy to Proposed Solid Waste Facilities, Maximum Feasible Utilization and Exemption of Existing in-District Solid Waste Facilities.

DEFINITIONS

For the purposes of this section, the following definitions shall apply:

- a. **Solid Waste Facilities** shall mean all solid waste collection, storage, disposal, transfer, recycling, processing, and resource recovery facilities.
- b. **Incinerator** means any equipment, machine, device, article, contrivance, structure or part of a structure used to burn solid or infectious wastes to ash.
- c. **Solid Waste Energy Recovery Facility** means any site, location tract of land, installation or building where mixed solid waste or select solid waste streams, including scrap tires, is used as or intends to be used as fuel to produce energy, heat, or steam.
- d. **Siting Strategy** shall mean the process by which the Board of Commissioners shall review proposals for the construction or modification of any Solid Waste Facility and determine whether such proposal complies with the *Plan Update*.
- e. **General Plans and Specifications** shall mean that information required to be submitted to the Board for review for the construction or modification of any proposed Solid Waste Facility and includes, but is not limited to, a site plan for the proposed facility, architectural drawings or artists renderings of the proposed facility, the projected size and capacity of the proposed facility and all other information identified in this Siting Strategy.
- f. **Applicant** shall mean a person, municipal corporation, township or other political subdivision proposing to construct or modify a Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility within the District.
- g. **Modify** shall mean a significant change in the operation of an existing in-District Solid Waste Facility: (1) that requires the approval of the Director of the Ohio Environmental Protection Agency; or (2) that involves a change in the type of material, manner of operation, or activities conducted at the facility (i.e., a conversion of a legitimate recycling facility to a transfer station).

PURPOSE AND OBJECTIVE

The District's Siting Strategy for Solid Waste Facilities ensures that proposals to construct a new Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility within the District or modify an existing Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility within the District are in compliance with the *Plan Update*. The Board shall not approve the General Plans and Specifications for any proposed

Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility or the modification of any existing in-District Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility where the construction and operation of the proposed facility, as determined by the Board, will: (1) have significant adverse impacts upon the Board's ability to finance and implement the *Plan Update*; (2) interfere with the Board's obligation to provide for the maximum feasible utilization of existing in-District Solid Waste Facilities; (3) materially and adversely affect the quality of life of residents within 500 feet of the proposed facility; or (4) have material adverse impacts upon the local community, including commercial businesses and other public facilities (schools, hospitals, libraries, places of worship, etc.) within 500 feet of the proposed facility and the adequacy of existing infrastructure to serve the proposed facility.

Except as otherwise provided herein, all proposed Solid Waste Facilities, Incinerator or Solid Waste Energy Recovery Facility whether to be sited by or on behalf of the District, or by or on behalf of any person, municipal corporation, township or other political subdivision, shall be subject to this Siting Strategy and shall comply with the requirement to submit General Plans and Specifications to the District.

SITING PROCEDURE LIMITED EXEMPTION

Notwithstanding the foregoing requirement, modifications to existing in-District Solid Waste Facilities with an approved permit-to-install at the time this *Plan Update* is approved are not subject to this Siting Strategy.

REQUIREMENTS

The District requires that General Plans and Specifications for all proposals to construct any new Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility within the District or modify any existing in-District Solid Waste Facility be submitted for a determination by the Board of whether such General Plans and Specifications and the proposals comply with the *Plan Update*. The District may adopt a rule upon final approval of this *Plan Update* as follows:

“No person, municipal corporation, township or other political subdivision, shall construct or modify any solid waste transfer facility, disposal facility, recycling facility, material recovery facility, incinerator or solid waste energy recovery facility until the General Plans and Specifications for the proposed improvement have been submitted to and approved by the Board as complying with the *Plan Update*.”

PROCEDURE IMPLEMENTING SITING STRATEGY

Unless otherwise provided herein, or an exemption or waiver from this requirement has been granted by the Board, the following procedure and process shall be followed in the event the construction of a new Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility or the modification of an existing in-District Solid Waste Facility is proposed within the District:

STEP 1: Submittal of Plans and Specifications

Any person, municipal corporation, township or other political subdivision proposing to construct a new Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility or modify an existing in-District Solid Waste Facility shall:

- a. Provide General Plans and Specifications of the proposed facility to the Board. Such General Plans and Specifications shall include, but may not be limited to, the following documents and information:
 - i. a site plan for the proposed facility;
 - ii. architectural drawings or artists renderings of the proposed facility;
 - iii. availability of necessary utilities;
 - iv. projected size, daily and annual processing capacity in tons, and air space capacity using the proposed maximum daily waste receipt limit;
 - v. hours of operation;
 - vi. anticipated source of solid waste or recyclable materials to be received at the proposed Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility. If recycling activities will be conducted at the proposed facility, a detailed description of the recycling activity including materials to be recycled, technology to be utilized to accomplish the separation and processing of the recyclable materials, the anticipated percentage of waste reduction anticipated from the operation of the facility and the identification of the market for the sale of the recyclable materials recovered at the facility must be submitted;

- vii. types and anticipated number of vehicles utilizing the proposed Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility on an hourly and daily basis;
 - viii. routes to be used by vehicles utilizing the facility and methods of ingress and egress to the facility; and
 - ix. any other information necessary for the Board to evaluate whether the proposed Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility complies with each of the criteria listed below.
- b. Adequately demonstrate to the Board that the construction or modification and subsequent operation of the proposed Solid Waste Facility will:
- i. be consistent with the goals, objectives, projections and strategies contained in the *Plan Update*;
 - ii. not adversely affect financing for the implementation of the *Plan Update*;
 - iii. not adversely affect the Board's obligation to provide for the maximum feasible utilization of existing in-District solid waste facilities;
 - iv. be installed, operated and maintained to be harmonious and appropriate in appearance and use with the existing or intended character of the area;
 - v. be adequately served by essential public facilities and services;
 - vi. not create excessive additional requirements at public cost for public facilities or services;
 - vii. not be detrimental to the economic welfare of the community;
 - viii. not involve the excessive production of traffic, noise, smoke, fumes or odors;
 - ix. have vehicular approaches to the property that are designed not to create an interference with traffic;

- x. not result in the destruction, loss or damage of a natural, scenic, or historic feature of major importance; and
 - xi. not adversely affect property values within the surrounding community.
- c. The Applicant shall submit any additional information the Board requests to establish, to the reasonable satisfaction of the Board, that the construction or modification and subsequent operation of the proposed Solid Waste Facility or proposed modification of an existing in-District Solid Waste Facility will comply with the *Plan Update*.

STEP 2: Board Review

The Board shall conduct a review of the information submitted for the proposed Solid Waste Facility to determine whether the Applicant has adequately demonstrated that the proposed Solid Waste Facility will be constructed or modified and subsequently operated in compliance with the *Plan Update* and demonstrated that the impacts listed in Step 1 do not adversely affect the District, its residents and businesses. The Board may expend District funds to employ a consultant or consultants familiar with Solid Waste Facility construction and operation, land use planning and solid waste planning to assist the Board in implementing this Siting Strategy and in its determination of whether a proposed Solid Waste Facility or modification of an existing in-District Solid Waste Facility complies with the *Plan Update*.

Within sixty days of receiving the General Plans and Specifications from an applicant, the Board shall make a determination as to whether the General Plans and Specifications submitted by the applicant contain sufficient information for the Board to complete its review of the proposal. In the event the Board determines that more information is necessary to complete its review of the proposal, the Board shall notify the Applicant of such request in writing.

Within ninety days of determining that the Applicant has submitted a complete set of General Plans and Specifications, the Board shall determine whether the proposal complies with the *Plan Update* and the criteria identified in Step 1 herein. The Board shall notify the Applicant of its decision in writing. While the Board has broad discretion regarding the approval of General Plans and Specifications for a proposed Solid Waste Facility or modification of an existing in-District Solid Waste Facility, it is the intent of this Siting Strategy that the Board shall not approve General Plans and Specifications for a proposed Solid Waste Facility unless the Board determines that the proposed Solid Waste Facility or modification of

an existing in-District Solid Waste Facility complies with the *Plan Update* and the criteria identified in Step 1 herein.

STEP 3: Development Agreement

In the event the Board determines that the proposed construction or modification and subsequent operation of a Solid Waste Facility complies with the *Plan Update*, the person, municipal corporation, township or other political subdivision proposing to construct or modify the Solid Waste Facility shall enter into a development agreement with the District which memorializes the obligations that are the basis of the Board's conclusion that the General Plans and Specifications demonstrate that the proposed facility or its modification complies with the *Plan Update*. The party proposing to construct a Solid Waste Facility shall have an ongoing obligation to comply with the *Plan Update* and the development agreement.

WAIVER

The Board reserves the right to waive application of the requirement for the submission and Board approval of General Plans and Specifications, and any portion or all of the Siting Strategy or otherwise grant exceptions to the rules of the District, or unilaterally modify or amend the Siting Strategy if the Board concludes such waiver, modification or amendment is in the best interest of the District, its residents and businesses and will assist the Board in the successful implementation of the *Plan Update* and further District goals with respect to solid waste and waste reduction activities.

A determination by the Board to construct or modify any District-owned Solid Waste Facility shall be deemed to be in compliance with the *Plan Update* and the other requirements of these rules.

Waiver for Legitimate Recycling Facilities

The Board has a strong commitment to encouraging the development of recycling and waste reduction activities that are consistent with the waste reduction, reuse and recycling goals as may be required by the Ohio Revised Code, the Ohio Administrative Code, the State Solid Waste Management Plan and the *Plan Update*. Upon adequate demonstration to the Board of the likelihood of attainment of certain waste reduction goals, the Board may waive application of the Siting Strategy for any facility determined by the Board as likely to qualify as a "legitimate recycling facility" as defined in Section 3745-27-01(C)(2) of the Ohio Administrative Code.

In the event an Applicant desires a waiver from the application of the Siting Strategy for a legitimate recycling facility, the Applicant shall submit sufficient information to the Board regarding the proposed facility, the waste reduction method to be implemented, technology to be used in the operation of the facility, the source and type of waste to be received at the facility, the materials to be removed from the waste stream and the anticipated amount of waste reduction.

The Board shall review the proposal following the procedures and process in Step 2 of this Siting Strategy and determine whether the waste reduction standards required by OAC Section 3745-27-01(C)(2) are likely to be satisfied at the proposed facility. In the event the Board determines that such facility is likely to qualify as a legitimate recycling facility, the Board may grant a waiver of the application of the Siting Strategy to the proposed facility.

Such waiver may be made contingent upon the execution of a development agreement by which the proposed facility will be obligated to meet the proposed waste reduction standards on a continuing basis and such other obligations regarding operation of the facility as the Board shall require, including such recordkeeping and reporting requirements as may be necessary to establish compliance with the waste reduction goals. Failure to comply with the terms of any such agreement may result in the revocation of Board approval for operation of any such facility. As part of any such development agreement, the Board may require such bond or other assurances in such amounts as the Board determines, in its discretion, shall be necessary to assure that funds are available for the removal of the facility or conversion of the facility to a legal use in the event of non-compliance with waste reduction standards or other obligations as set forth in the development agreement.

H. Contingencies for Capacity Assurance and District Program Implementation

The District will implement the contingency plan outlined in this section of the *Plan Update* if the Republic Lorain County Landfill is required to close operations for a period of time that would be detrimental to the health and safety of District residents. If the Board determines there is a public health and safety threat due to the closure of the Republic Lorain County Landfill, the following will be implemented.

The Board may elect to pursue any of the following:

- a. Prepare a bid specification to solicit bids from regional landfills to accept District solid waste.

- b. Develop a District-wide disposal cooperative with local political jurisdictions to obtain a fixed disposal price for a specified term.
- c. Initiate action to site either a public or private solid waste transfer, solid waste disposal facility, Incinerator or Solid Waste Energy Recovery Facility.
- d. Take any other action the Board deems appropriate as allowable by Ohio law and regulations to protect public health and safety.

The District will meet with the Policy Committee and develop a strategy and recommendation to the Board on the course of action to take within 120 days of receiving official notification from the Ohio EPA that the Republic Lorain County Landfill will be closed. Additionally, the District will develop an alternative source of revenue if the Republic Lorain County Landfill is required to close for any reason. The Board will direct the Policy Committee to develop alternatives for revenue generation to assure program implementation as part of the management plan for the disposal of District solid waste. The District will consider a generation fee as one alternative for revenue generation.

**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 and Processing Capacity Required in TPY					
				Waste Reduction	Transfer	Yard Waste Composting	Gross Incineration	Waste Reduced by Incineration	Landfilling
2013	540,526	0	540,526	127,924	7,527	37,237	7	5	375,360
2014	544,827	0	544,827	129,387	7,547	32,548	7	5	382,887
2015	549,160	0	549,160	130,162	7,566	32,548	7	5	386,445
2016	553,525	0	553,525	132,021	7,586	35,548	7	5	385,951
2017	557,923	0	557,923	133,350	7,606	38,048	7	5	386,520
2018	562,353	0	562,353	134,456	7,625	39,548	7	5	388,344
2019	565,096	0	565,096	135,614	7,645	40,048	7	5	389,429
2020	567,873	0	567,873	137,316	7,665	40,548	7	5	390,004
2021	570,640	0	570,640	138,529	7,685	41,048	7	5	391,059
2022	573,441	0	573,441	139,831	7,705	41,548	7	5	392,057
2023	576,274	0	576,274	141,238	7,725	42,048	7	5	392,983
2024	579,139	0	579,139	142,770	7,745	42,548	7	5	393,817
2025	582,037	0	582,037	145,000	7,765	43,048	7	5	393,985

Source(s) of information:

- Tons of SW Generated - Table V-4
- Tons Waste Reduction and Yard Waste Composting - Tables V-5 and V-6
- Tons Transferred (2013) - Table III-2
- Tons of Gross Incinerated - Table VI-4B
- Tons of Ash Landfilled (2013) - Table III-2

Sample calculation:

$$2013 \text{ Net tons to be managed by SWMD} = \text{Tons of SW generated} - \text{tons source reduced}$$

$$540,526 \text{ tons} = 540,526 \text{ tons} - 0 \text{ tons}$$

$$2013 \text{ Waste reduction capacity required} =$$

$$2013 \text{ Residential/commercial waste reduction} + \text{industrial waste reduction} - \text{YW composting} - \text{Waste Reduced by Incineration}$$

$$127,924 \text{ tons} = 74,578 \text{ tons} + 90,589 \text{ tons} - 37,237 \text{ tons} - 5 \text{ tons}$$

$$2013 \text{ Landfilling} = \text{Net Tons to be Managed by SWMD} - (\text{Recycling} + \text{Yard Waste Composting}) - \text{Waste Reduced by Incineration}$$

$$375,360 \text{ tons} = 540,526 \text{ tons} - (127,924 \text{ tons} + 37,237 \text{ tons}) - 5 \text{ tons}$$

**Table VI-2
Summary for Residential/Commercial Waste Management Methods**

Year	Tons Generated	Management Method in TPY			
		Volume Reduction & Recycling	Gross Incineration	Composting	Landfilling
2013	289,107	37,341	7	37,237	214,529
2014	291,901	38,441	7	32,548	220,912
2015	294,719	38,852	7	32,548	223,319
2016	297,561	40,346	7	35,548	221,667
2017	300,427	41,308	7	38,048	221,071
2018	303,317	42,046	7	39,548	221,724
2019	306,232	42,835	7	40,048	223,349
2020	309,171	44,165	7	40,548	224,458
2021	312,094	45,006	7	41,048	226,040
2022	315,042	45,934	7	41,548	227,560
2023	318,014	46,965	7	42,048	229,001
2024	321,011	48,119	7	42,548	230,344
2025	324,034	49,971	7	43,048	231,015

Note: Source Reduction & Recycling includes waste reduction by incineration.

Source(s) of information:

Tons Generated - Table V-2

Source Reduction and Recycling (includes tons reduced via incineration) - Table V-5

Incineration from Table VI-1

Composting - Table V-5

Sample calculation (2013):

Landfilling = Tons Generated - Volume Reduction & Recycling - Composting
 214,529 tons = 289,107 tons - 37,341 tons - 37,237 tons

**Table VI-3
Summary for Industrial Waste Management Methods**

Year	Tons Generated	Management Method in TPY	
		Source Reduction & Recycling	Landfilling
2013	138,446	90,589	47,858
2014	138,235	90,951	47,284
2015	138,031	91,315	46,716
2016	137,836	91,680	46,156
2017	137,648	92,047	45,602
2018	137,469	92,415	45,055
2019	137,298	92,785	44,514
2020	137,135	93,156	43,980
2021	136,980	93,528	43,452
2022	136,833	93,902	42,931
2023	136,693	94,278	42,415
2024	136,562	94,655	41,906
2025	136,437	95,034	41,404

Source(s) of information:

Tons Generated - Table V-4

Tons Source Reduction & Recycling - Table V-6

Sample calculations (2013):

Landfilling = Tons Generated - Source Reduction & Recycling

47,858 tons = 138,446 tons - 90,589 tons

**Table VI-4A
Waste Management Method: Landfill**

Facilities Used by District	County	Average Daily Waste (Tons)	Remaining Capacity		Airspace		Tons of District SW Managed												
			Years	Data Source	Gross (YD ³)	Net (tons)	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
							16.7	OEPA	19,817,572	17,334,533	352,890	359,966	363,312	362,848	363,382	365,097	366,117	366,658	367,649
Lorain County Landfill	Lorain	3,634	16.7	OEPA	19,817,572	17,334,533	352,890	359,966	363,312	362,848	363,382	365,097	366,117	366,658	367,649	368,588	369,458	380,197	380,359
Countywide Landfill	Stark	1,949	63	OEPA	43,026,695	32,350,898	44	45	45	45	45	45	46	46	46	46	46	46	46
Pine Grove Regional Facility	Fairfield	886	66	OEPA	20,101,387	15,076,040	1	1	1	1	1	1	1	1	1	1	1	1	1
American Landfill	Stark	3,657	65.6	OEPA	82,266,252	68,856,863	9,912	10,111	10,204	10,191	10,206	10,255	10,283	10,298	10,326	10,353	10,377	10,399	10,404
Noble Road Landfill	Richland	3,206	9.9	OEPA	9,990,500	8,292,100	9,488	9,678	9,768	9,756	9,770	9,816	9,844	9,858	9,885	9,910	9,934	0	0
Port Clinton Landfill	Ottawa	344	99.4	OEPA	9,805,360	8,894,367	121	124	125	125	125	125	126	126	126	127	127	127	127
Evergreen R&D Facility	Wood	673	42.3	OEPA	9,169,457	6,546,992	74	75	76	76	76	76	76	76	77	77	77	77	77
Kimble Sanitary Landfill	Tuscarawas	2,360	48.2	OEPA	40,391,301	3,554,434	354	361	365	364	365	367	368	368	369	370	371	372	372
Erie County Sanitary Landfill	Erie	477	32	OEPA	5,376,144	4,787,071	2,472	2,521	2,545	2,541	2,545	2,557	2,564	2,568	2,575	2,582	2,588	2,593	2,594
Carbon Limestone Landfill	Mahoning	3,360	58.7	OEPA	71,358,880	61,511,354	2	2	2	2	2	2	2	2	2	2	2	2	2
Sunny Farms Landfill	Seneca	3,772	23.3	OEPA	32,421,923	24,582,302	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
South Side Landfill	Marion (IN)	DNR	DNR	OEPA	DNR	DNR	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Total							343,725,471	251,786,944	375,360	382,887	386,445	388,344	389,429	390,004	391,059	392,057	392,983	393,817	393,985

Note: Reflects tonnage directly hauled, transferred, and ash disposed at landfills as a result of incineration.

Source(s) of information:

2013 tons - Tables III-1 - III-2
2014 - 2025 tons - Table VI-1

Projected value for each landfill is calculated as a ratio based on the 2013 distribution.
Years of remaining capacity as of 12/31/2013 based on the 2013 rate of receipts

Sample calculation:

$$\text{Lorain Co. Landfill 2014} = \frac{\text{Lorain Co. Landfill 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

$$359,966 \text{ tons} = \frac{352,890 \text{ tons}}{375,360 \text{ tons}} \times 382,887 \text{ tons}$$

**Table VI-4B
Waste Management Method: Incinerator**

Facilities Used by District Name and Location (County & State)	Average Daily Waste (Tons)	Remaining Capacity		Airspace (cubic yds)		Tons of District SW Managed													
		Years	Data Source	Gross	Net	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	
Stericycle - Medical Waste	N/A	N/A	N/A	N/A	N/A	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Totals						7	7	7	7	7	7	7	7	7	7	7	7	7	7

N/A=Not Available

**Table VI-4C
Waste Management Method: Transfer**

Facilities Used by District Name and Location (County & State)	Tons of District SW Managed												
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Strongsville Solid Waste Transfer Facility	824	827	829	831	833	835	837	840	842	844	846	848	850
Harvard Road Transfer Station	3,691	3,701	3,710	3,720	3,730	3,739	3,749	3,759	3,769	3,779	3,788	3,798	3,808
Broadview Heights Transfer Station	1,429	1,433	1,437	1,441	1,444	1,448	1,452	1,456	1,459	1,463	1,467	1,471	1,475
Richland County Transfer Station	11	11	11	11	11	11	11	11	11	11	11	11	11
Medina County Material Recovery Facility	171	171	172	172	173	173	174	174	175	175	175	176	176
Waste Management Cleveland Transfer	1,399	1,402	1,406	1,410	1,413	1,417	1,421	1,424	1,428	1,432	1,435	1,439	1,443
Medassure of Indiana Treatment Facility	1	1	1	1	1	1	1	1	1	1	1	1	1
Total	7,527	7,547	7,566	7,586	7,606	7,625	7,645	7,665	7,685	7,705	7,725	7,745	7,765

Source(s) of information:

- 2013 Tons - Table III-3
- 2014 - 2025 Tons - Table VI-1

Projected value for each transfer station is calculated as a ratio based on the 2013 distribution.

Sample calculation:

$$\text{Strongsville Transfer Facility 2014} = \frac{\text{Strongsville Transfer Facility 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

$$827 \text{ tons} = \frac{824 \text{ tons}}{7,527 \text{ tons}} \times 7,547 \text{ tons}$$

Table VI-4D
Waste Management Method: Recycling

Facilities Used by District Name	County	Tons of District SW Managed												
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Lorain County Collection	Lorain	956	967	973	987	997	1,005	1,014	1,027	1,036	1,045	1,056	1,067	1,084
Lorain County Recyclery	Lorain	10,008	10,122	10,183	10,329	10,432	10,519	10,610	10,743	10,838	10,940	11,050	11,169	11,344
Abitibi Consolidated	Lorain	2,735	2,766	2,783	2,823	2,851	2,875	2,899	2,936	2,962	2,990	3,020	3,052	3,100
Goodwill	Lorain	1,014	1,026	1,032	1,046	1,057	1,066	1,075	1,088	1,098	1,108	1,120	1,132	1,149
Associated Paper Stock	Lorain	146	148	149	151	152	153	155	157	158	160	161	163	165
Caraustar	Lorain	518	524	527	535	540	544	549	556	561	566	572	578	587
D&B Auto Wrecking	Lorain	2,400	2,427	2,441	2,476	2,501	2,522	2,544	2,576	2,598	2,623	2,649	2,678	2,720
Dobie Pallets, Inc	Lorain	1,300	1,315	1,323	1,342	1,355	1,366	1,378	1,395	1,408	1,421	1,435	1,451	1,474
Gateway Recycling	Lorain	1,039	1,051	1,057	1,072	1,083	1,092	1,101	1,115	1,125	1,136	1,147	1,160	1,178
Jasar Recycling	Lorain	39	39	39	40	40	41	41	41	42	42	43	43	44
Liberty Tire	Lorain	3,814	3,858	3,881	3,937	3,976	4,009	4,044	4,094	4,131	4,169	4,211	4,257	4,324
Milliron Recycling	Lorain	1,710	1,730	1,740	1,765	1,783	1,797	1,813	1,836	1,852	1,869	1,888	1,908	1,938
River Valley Paper Co.	Lorain	65	66	67	68	68	69	69	70	71	72	72	73	74
Sugar Ridge	Lorain	45	46	46	46	47	47	48	48	49	49	50	50	51
Planet Aid Recycling	Lorain	23	24	24	24	24	24	25	25	25	25	26	26	26
Reed's Salvage	Lorain	27	27	27	28	28	28	29	29	29	30	30	30	31
Eschtruch	Lorain	416	421	423	429	433	437	441	446	450	455	459	464	471
Kurtz Brothers	N/A	720	728	733	743	751	757	763	773	780	787	795	804	816
DRX	N/A	45	46	46	46	47	47	48	48	49	49	50	50	51
Medina Mulch	Medina	50	51	51	52	52	53	53	54	54	55	55	56	57
Ferrous Trading and Processing (FTP)	Cuyahoga	3,869	3,913	3,937	3,993	4,033	4,067	4,102	4,153	4,190	4,229	4,272	4,318	4,385
FerroTrade	DNR	1,528	1,545	1,555	1,577	1,593	1,606	1,620	1,640	1,655	1,670	1,687	1,705	1,732
Cimino Pallet	DNR	823	832	837	849	858	865	872	883	891	900	909	919	933
Midwest	DNR	355	359	361	366	370	373	376	381	384	388	392	396	402
Intercon	DNR	340	344	346	351	355	358	361	365	368	372	376	380	386
MD Packaging	DNR	27	27	27	28	28	28	29	29	29	30	30	30	31
Green Innovations	DNR	25	26	26	26	26	27	27	27	27	28	28	28	29
BlueStar	Lorain	550	556	560	568	573	578	583	590	596	601	607	614	623
Big Lots	Lorain	36	36	36	37	37	38	38	38	39	39	40	40	41
Dollar General	Lorain	309	313	315	319	322	325	328	332	335	338	341	345	350
Target	Lorain	445	450	452	459	463	467	471	477	481	486	491	496	504
Home Depot	Lorain	580	587	590	599	605	610	615	623	628	634	640	647	657
Lowes	Lorain	275	278	280	284	286	289	291	295	298	300	303	307	312
Aldi - Hinckley Division	Lorain	356	360	362	367	371	374	377	382	386	389	393	397	404
JC Penney Distribution	Lorain	133	134	135	137	138	139	141	142	144	145	146	148	150
Jo-Ann Fabrics Corporate Office & HQ	Lorain	20	21	21	21	21	21	22	22	22	22	23	23	23
Walmart	Lorain	1,207	1,221	1,228	1,245	1,258	1,268	1,279	1,295	1,307	1,319	1,332	1,347	1,368
Kohl's	Lorain	203	205	206	209	211	213	215	218	220	222	224	226	230
US Steel - Lorain Tubular	Lorain	57,886	58,548	58,898	59,740	60,341	60,841	61,365	62,135	62,684	63,274	63,910	64,603	65,612
Alcon Industries	Lorain	830	839	844	856	865	872	879	891	898	907	916	926	940
StrapCom	Lorain	33	34	34	34	35	35	35	36	36	36	37	37	38
Kidney Salvage	Lorain	103	104	105	106	107	108	109	111	112	113	114	115	117
Maxi-Container	Lorain	33	34	34	34	35	35	35	36	36	36	37	37	38
Sam's Pallet	Lorain	50	51	51	52	52	53	53	54	54	55	55	56	57
Victor Metals, Inc.	Lorain	291	294	296	300	303	306	308	312	315	318	321	325	330
Waste Management	Lorain	1,158	1,171	1,178	1,195	1,207	1,217	1,228	1,243	1,254	1,266	1,279	1,292	1,313
Other recycling facilities used by the residential/commercial and industrial sectors	Various	29,389	29,726	29,903	30,331	30,636	30,890	31,156	31,547	31,826	32,125	32,448	32,800	33,312
Total		127,924	129,387	130,162	132,021	133,350	134,456	135,614	137,316	138,529	139,831	141,238	142,770	145,000

Source(s) of information:

The total recycled is from Table VI-1.

Projected value for each Recycling Facility is calculated as a ratio based on the 2008 distribution

Sample calculation:

$$\text{Goodwill 2014} = \frac{\text{Goodwill 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

$$1,026 \text{ tons} = \frac{1,014 \text{ tons}}{127,924 \text{ tons}} \times 129,387 \text{ tons}$$

Table VI-4E
Waste Management Method: Composting

Facilities Used by District Name and Location (County & State)	County	Tons of District SW Managed												
		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Avon Lake Central Fueling	Lorain	4,498	3,932	3,932	4,294	4,596	4,777	4,838	4,898	4,959	5,019	5,080	5,140	5,200
Amherst Township Yard Waste Collection Site	Lorain	747	653	653	713	763	793	803	813	823	833	844	854	864
Carlisle Township	Lorain	1,037	906	906	990	1,060	1,101	1,115	1,129	1,143	1,157	1,171	1,185	1,199
Eaton Township Composting Center	Lorain	532	465	465	508	544	565	573	580	587	594	601	608	615
City of Elyria	Lorain	7,272	6,356	6,356	6,942	7,430	7,723	7,821	7,919	8,016	8,114	8,212	8,309	8,407
JDS Trucking, Inc	Lorain	400	350	350	382	409	425	430	436	441	446	452	457	462
JS Composting	Lorain	177	154	154	169	181	188	190	192	195	197	199	202	204
Kurtz Bros Inc	Lorain	18,444	16,121	16,121	17,607	18,845	19,588	19,836	20,084	20,331	20,579	20,827	21,074	21,322
City of Lorain	Lorain	1,583	1,384	1,384	1,512	1,618	1,682	1,703	1,724	1,745	1,767	1,788	1,809	1,830
M & B Trucking Express Corp.	Lorain	874	764	764	834	893	928	940	951	963	975	986	998	1,010
Morton's Landscape Development Co.	Lorain	339	296	296	323	346	360	364	369	373	378	383	387	392
Oberlin Compost	Lorain	700	612	612	668	715	743	753	762	772	781	790	800	809
Rosby Resource Recycling	Cuyahoga	72	63	63	69	73	76	77	78	79	80	81	82	83
Yard Waste Recovery - Barnes Nursery	Erie	539	472	472	515	551	573	580	587	595	602	609	616	624
Sand Road Ent., Inc.	Huron	10	8	8	9	10	10	10	11	11	11	11	11	11
#1 Landscape	Medina	13	12	12	13	14	14	14	14	15	15	15	15	15
Total		37,237	32,548	32,548	35,548	38,048	39,548	40,048	40,548	41,048	41,548	42,048	42,548	43,048

Source(s) of information:

2013 tons - Table III-6

2014 - 2025 tons - Table VI-1

Projected value for each facility is calculated as a ratio based on the 2013 distribution.

Sample calculation:

$$\text{Avon Lake Central Fueling 2014} = \frac{\text{Avon Lake 2013}}{\text{Total 2013}} \times \text{Total 2014}$$

$$3,932 \text{ tons} = \frac{4,498}{37,237} \times 32,548$$

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Curbside Recycling	LC-1	District-wide	Thirty-four PAYT/non-subscription curbside recycling programs and one non-subscription curbside recycling program are expected to continue. Each political subdivision is responsible for maintaining its own program within its jurisdiction.	Ongoing	Ongoing
Initiative LC-1.1 <i>Promoting curbside alternatives</i>			District will promote drop-off recycling at Collection Center to residents who do not have curbside recycling. District will maintain interactive drop-off database, MyEcoVille, which informs residents of additional recycling opportunities in Lorain County. Drop-off location at Collection Center and MyEcoVille will be promoted on District's website to encourage residents without curbside to recycle.	2013	2025
Initiative LC-1.2 <i>Increasing participation rates via advertising</i>			A component of the District's advertising strategy will be to increase participation rates in residential curbside programs. The District may use newspaper advertisements, cable television, and social media outlets.	2015	2025
Initiative LC-1.3 <i>Improving consistency of messaging to residents</i>			District will work with local residential haulers to ensure that messaging to residential customers is consistent. This could include a mailing to residential customers identifying the recyclable materials accepted.	2015	2025
Drop-Off Recycling	LC-2	Elyria, Eaton Twp., Penfield Twp., Brighton Twp., Huntington Twp., and Camden Twp./Kipton	The full-time District-operated drop-off and full-time and part-time drop-offs operated by individual townships are expected to continue. Paper Retriever bins and limited-material drop-offs operated by private sector entities are also expected to continue operating.	Ongoing	Ongoing
Initiative LC-2.1 <i>Working with communities to improve convenience and access to drop-off recycling sites</i>			The District will identify urban areas that do not host a drop-off recycling site and provide technical assistance for improving access for residents that do not have curbside recycling.	2015	2025
Yard Waste Management	LC-3	District-wide	Currently registered compost facilities are expected to continue operating. The District will continue to work with the Ohio State University Agricultural Agent to provide education on the advantages and benefits of composting and vermicomposting by funding a portion of the Agent's salary. The District will encourage residents to mulch grass clippings and engage in backyard composting through presentations and brochures.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-3.1 <i>Improving accuracy of reported yard waste in ADR</i>			The District will continue to use tonnage information supplied in Ohio EPA's annual composting report to monitor the tons composted at registered facilities. The District will identify political subdivisions and institutions that conduct composting activities at un-registered locations. In an effort to obtain more accurate tonnage reports from these activities the District will create a fact sheet containing information about how to properly estimate quantities of yard waste, brush and leaves. It will also inform entities on how to report data to the District using Re-TRAC Connect. The fact sheet will be distributed to political subdivisions and institutions that conduct composting facilities but are not required to report annually to Ohio EPA.	2015	2025
Initiative LC-3.2 <i>Establishing an in-district organics processing facility</i>			The District issued a request for proposals (RFP) in 2013 for an Organics Processing Recycling facility in Lorain County that can process food waste and other organics. Barnes Nursery was selected to complete Phase I of the project, which is ongoing. The District anticipates that a new organics processing facility could be in operation in 2016 dependent upon the successful completion of each project phase.	2013	2025
Household Hazardous Waste (HHW) Collection - The Lorain County Collection Center	LC-4	District-wide	The District's Collection Center will continue to be available to District residents. The Collection Center accepts HHW, household recyclables, rechargeable batteries, scrap tires, books, paper, cardboard, fluorescent bulbs, ballasts, microwaves, and electronics.	Ongoing	Ongoing
Initiative LC-4.1 <i>Evaluating and addressing access to Collection Center programs</i>			The District will assess whether the Collection Center provides adequate access to residents District-wide. If the Collection Center does not provide adequate coverage, the District will consider working with commercial sector businesses to establish drop-off locations potentially in the southern portion of Lorain County for special materials. The District will work with adjacent solid waste management districts to identify opportunities for regional programming.	2015	2025

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Electronics Recycling	LC-5	District-wide	The District accepts electronics at the Collection Center. The District will provide supplies for packaging at no charge for residents/businesses/political subdivisions that have more than 12 pieces of e-waste to drop-off at one time. The District promotes Goodwill, which accepts e-waste from residents, on its website.	Ongoing	Ongoing
Initiative LC-5.1 <i>Obtaining a recycling vendor for televisions with screens >27"</i>			The District will regularly research (at least on a semi-annual basis) vendors that can accept console televisions or televisions with a screen greater than 27". If the District is able to identify a financially sustainable outlet to manage these items, the District will begin accepting the items at the Collection Center. The District will continue searching for a viable vendor as long as there is a need to recycle these items. If the District finds that these types of televisions are nearly obsolete, this initiative will no longer be pursued.	2014	2025 (or as needed)
Printer Cartridge and Cell Phone Recycling	LC-6	District-wide	The District will maintain its partnership with the Lorain County Office on Aging. The Collection Center accepts cell phones and ink cartridges. Volunteers with the Lorain County Office on Aging package the materials for a recycling vendor, which generates revenue to support programs for senior citizens in Lorain County.	Ongoing	Ongoing
Scrap Tire Collection	LC-7	District-wide	Scrap tires are accepted from District residents for no charge at the Collection Center and two permanent scrap tire drop-off sites at the Lorain City Garage and Grafton Township Hall.	Ongoing	Ongoing
Initiative LC-7.1 <i>Identifying and pursuing grant funding</i>			The District will annually identify and pursue opportunities for grant funding to offset the costs of tire collection activities.	2014	2025
Initiative LC-7.2 <i>Minimizing abuse of the tire recycling program</i>			The District will post signage at collection sites stating tire wholesalers may not use the program. Staff at manned sites will be instructed to ask those transporting scrap tires if the origin of the tires are from a business. The District will keep records of individuals using the program to attempt to identify the offending businesses. FlashCAMs will be used at unmanned sites to catch individuals abusing the program as long as FlashCAMs are not needed to combat more serious solid waste related offenses.	2014	2025

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Appliance Recycling	LC-8	District-wide	The District accepts microwave ovens at the Collection Center. The District also maintained an up-to-date listing of establishments that have certified Freon recovery programs.	Ongoing	Ongoing
Initiative LC-8.1 <i>Program promotion</i>			The District will promote the Appliance Recycling program on its website and through periodic mailings, advertisements, presentations, and other mass promotional activities.	2014	2025
Initiative LC-8.2 <i>Updating list of appliance recyclers</i>			The District will annually update the list of companies that accept appliances for recycling.	2014	2025
Initiative LC-8.3 <i>Identifying partnerships</i>			The District will identify opportunities to partner with local agencies to collect appliances to be recycled from Lorain County Residents.	2014	2025
Phone Book Collection	LC-9	District-wide	The District will continue to accept phone books and other books at the Collection Center. The 260 Abitibi Paper Retriever bins that also accept phone books throughout the District are expected to continue operating.	Ongoing	Ongoing
Fluorescent Bulb and Ballast Recycling	LC-10	District-wide	The Collection Center accepts and recycles fluorescent bulbs, compact fluorescent lamps (CFLs), high intensity discharge (HID) light bulbs, and ballasts.	Ongoing	Ongoing
Commercial Sector Paper Recycling	LC-11	District-wide	The District provides recycling totes to organizations upon request when containers are available. Abitibi and Republic also provide commercial sector paper recycling opportunities.	2014	2025
Initiative LC-11.1 <i>Program promotion</i>			The District will promote the Commercial Sector Paper Recycling program on its website, in its annual report booklet, through presentations, and by targeted promotional activities.	Ongoing	2025
Initiative LC-11.2 <i>Identifying and pursuing grant funding</i>			The District will identify and pursue grant opportunities to offset container costs.	2014	2025 (or as needed)
Initiative LC-11.3 <i>Following up with participants</i>			The District will contact recipients of recycling bins within 6 months of bin delivery to follow up with businesses, ensure bins are being used appropriately, and answer any recycling related questions.	2014	2025
Specialized Bottle/Can Collection Program	LC-12	District-wide	The District provides schools, businesses, and organizations with containers designed to collect bottles and cans for recycling upon request.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-12.1 <i>Program promotion</i>			The District will promote this program on its website, through presentations, and by targeted promotional activities. The District will also develop a list of ideal candidates that have the potential to maximize the use of the bins and directly market this program to identified candidates.	2014	2025
Initiative LC-12.2 <i>Obtaining program statistics</i>			The District will request that recycling totals (if supplied by hauler) are entered into Re-TRAC Connect in exchange for use of the bins.	2014	2025
Initiative LC-12.3 <i>Pursuing grant funding</i>			The District will identify and pursue grant opportunities to offset container costs.	2014	2025 (or as needed)
Residential Recycling Education	LC-13	District-wide	This program used the following activities and strategies to improve education and awareness about recycling to residents: providing brochures, answering questions on the District's hotline, hosting contests, performing school presentations and adult presentations, giving Collection Center tours, attending community events, hosting a lending library, and maintaining an updated website.	Ongoing	Ongoing
Initiative LC-13.1 <i>Obtaining autonomy over website/social media management</i>			The District will work with county management to evaluate if there is a solution that would give the District the ability to directly make minor updates to content on the website and social media without needing to coordinate changes through another County department.	2015	2016
Recycling/Market Development Grant	LC-14	District-wide	The District will identify grant opportunities from a variety of federal state, and local sources that are applicable to the District and/or Lorain County businesses or political subdivisions.	Ongoing	Ongoing
Initiative LC-14.1 <i>Streamlining internal program management</i>			The District will designate a staff member to lead this initiative and keep an annual timeline of grant informational meetings and submission deadlines. The District will draft a list of potential grant recipients or types of grant recipients for each grant opportunity identified. The District will promote the grant opportunities to targeted establishments and provide technical assistance on completing grant applications.	2014	2025
Initiative LC-14.2 <i>Matching grant funding</i>			The District will use excess carryover funding when available to match grant funding. Prior approval is required in order for the District to provide grant funding in cases where the District is not the primary grant applicant or recipient.	2014	2025 (or as needed)

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Recycling Revolving Loan Program	LC-15	District-wide	The District operates a Recycling Revolving Loan Fund for businesses and organizations (including non-profits) that utilize post-consumer recyclable materials either in their building materials or in their manufacturing processes.	Ongoing	Ongoing
Initiative LC-15.1 <i>Program promotion</i>			The District will encourage the Revolving Loan Committee to reach out to organizations that work with small or environmentally-conscious businesses to promote the availability of the Recycling Revolving Loan Program and seek assistance on identifying loan candidates.	2014	2025 (or as needed)
Initiative LC-15.2 <i>New program focus on companies that prolong the life of materials or equipment</i>			<p>The District will develop a new, additional focus for this program directed at providing start-up money for small businesses interested in fixing or repairing broken equipment or appliances, making products out of salvaged materials (e.g., lumber), etc.</p> <p>The District will also begin compiling a list of volunteers who have expertise in fixing computers, household appliances, tools, toys, etc. and who would be willing to come together once a month and provide free repair services to District residents. The goal is to have a local organization maintain the volunteer list, organize events, and create a website which would support these activities.</p>	2015	2025
District Market Development Grants (Commissioner Grants)	LC-16	District-wide	The District provides grants for special projects initiated by the Lorain County Commissioners. Projects promote recycled materials markets by purchasing recycled content materials, products, and/or equipment.	Ongoing	Ongoing
Initiative LC-16.1 <i>Annual evaluation to increase funding</i>			The District will evaluate funding for this program on an annual basis. If the District determines that increases in the level of funding are warranted, the additional funding will be allocated from the New Programs Funding budget line item.	2015	2025 (or as needed)
Initiative LC-16.2 <i>Revising grant guidelines</i>			The District will revise guidelines for the District Market Development Grant to include that the District will evaluate on a case-by-case basis whether funding for the maintenance of materials or equipment originally purchased under the District Market Development Grant will be available.	2015	2017
Community Incentive Grant Program	LC-17	District-wide	The District operates an annual Community Incentive Grant program to encourage political subdivisions with curbside recycling to continue or improve their programs.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-17.1 <i>Identifying the City of Lorain's Barriers to VBS</i>			The District will organize a meeting with the City of Lorain to discuss opportunities to move to a VBS system. The District and the City should identify the barriers to implementing the program.	2015	2016
Initiative LC-17.2 <i>Providing additional funding to communities for diversion</i>			Communities have requested additional financial assistance. The District is evaluating a funding program for yard waste (see LC-35).	Ongoing	Ongoing
Initiative LC-17.3 <i>Identifying and reducing discrepancies in data reporting</i>			District will cross-check tonnage reported by political subdivisions and haulers and discuss any discrepancies identified to reduce future reporting errors.	2015	2025
Volunteer Litter Collection (Lorain County Pride Day)	LC-18	District-wide	The District will host and promote the Annual Lorain County Pride Day, a county-wide litter collection and beautification event.	Ongoing	Ongoing
Initiative LC-18.1 <i>Creating public-private partnerships</i>			The District will work with private sector entities to help increase the budget for Pride Day activities.	2015	2025
Initiative LC-18.2 <i>Continuing KAB/KLCB activities</i>			The District will continue to be a Keep America Beautiful (KAB) affiliate and hold affiliate status of the Keep Lorain County Beautiful chapter. At least one member from the District will continue to attend meetings of the KLCB Advisory Board.	1995	Ongoing
Open Dump and Scrap Tire Clean-Up	LC-19	District-wide	The Boards of Health (Lorain County, City of Elyria, and City of Lorain) can apply to the District for funding to clean-up open dumping sites or scrap tire dumping sites. The funding will be allocated from the New Programs Funding budget line item.	Ongoing	Ongoing
C.A.B. (Clean and Beautiful)	LC-21	District-wide	District maintains enclosed C.A.B. trailers stocked with tools and supplies for litter cleanups and beautification activities. Community groups or organizations can request to borrow a trailer to complete cleanups, community gardens or other beautification projects at no cost. The District also loans C.A.B. trailers to local organizations and non-profits to collect goods at publicized food drives/donation events.	2013	Ongoing
Initiative LC-21.1 <i>Measuring program statistics</i>			The District will develop a relationship with a business that operates a scale, such as a transfer station, that will permit the District to weight full trailers after collection events in order to obtain program statistics.	2015	2025
Sheriff's Department Funding	LC-22	District-wide	The District funds the Environmental Crimes Unit (ECU) which is staffed by two sheriffs. The ECU investigates and prosecutes open dump sites and other related environmental crimes.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-22.1 <i>Prosecuting offenders</i>			The Sheriff will take legal action against violators of District flow control regulations or other violations to the Ohio Revised Code related to solid waste to ensure District rules are being followed.	2015	2025
Health Department Financial Assistance	LC-23	District-wide	The District will provide financial assistance to the City of Lorain and the City of Elyria Boards of Health and the Lorain County Health Department for enforcement of solid waste regulations.	Ongoing	Ongoing
Initiative LC-23.1 <i>Ensuring receipt of complete annual reports</i>			The District will provide the Boards of Health/Health Department with a review of their final reports annually. Incomplete annual reports, as determined by the District, may result in withheld funding for the following year.	2015	2025
Initiative LC-23.2 <i>Requiring an annual Scope of Services</i>			The District will also begin requiring a Scope of Services each year which will define the activities to be performed by the health departments on behalf of the District. The Scope of Services, which will be a condition for receiving District funding, will include a timetable for initiating and completing activities, and metrics (or measures) to be used for evaluating effectiveness.	2015	2025
County Assistance (Engineer)	LC-24	District-wide	The District provides \$50,000 in funding annually to the County Engineer for road repairs needed due to excess truck traffic from solid waste haulers.	Ongoing	Ongoing
Initiative LC-24.1 <i>Ensuring receipt of complete annual reports</i>			The District evaluates the effectiveness of this expenditure through a report submitted by the County Engineer detailing the work completed with the funding. Funding will not be approved without the receipt of the annual report.	2015	2025
Initiative LC-24.2 <i>Requiring an annual Scope of Services</i>			The District will also begin requiring a Scope of Services each year which will define the activities to be performed by the County Engineer Department on behalf of the District. The Scope of Services, which will be a condition for receiving District funding, will include a timetable for initiating and completing activities, and metrics (or measures) to be used for evaluating effectiveness.	2015	2025

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Legal	LC-25	District-wide	The District may solicit legal advice for important solid waste management issues from the prosecutor's office as well as outside counsel. Counsel representing the District may assist with issues related to the negotiation of contracts, enforcement, flow control, and other legal issues impacting the District.	Ongoing	Ongoing
Initiative LC-25.1 <i>Monitoring expenditures</i>			The District will monitor the use of legal services and their monthly costs.	2015	2025
New Programs Funding (formerly General Plan Implementation)	LC-26	District-wide	The District reserves a fund of \$150,000 to assist programs that required additional funding or to establish new programs. The District may provide funding for any existing or additional new programs (including existing grant programs) or organizations (including non-profits) for projects or grants that utilize recycled materials.	Ongoing	Ongoing
Emergency Management	LC-27	District-wide	The District's Disaster Debris Management Plan remains incorporated in the master emergency plan for Lorain County. If there is a need for disaster debris management funding in Lorain County, the District may allocate up to 25% of excess District funding. The District, EMA and the County will make every effort to seek reimbursement from the state and federal funding sources.	Ongoing	Ongoing
Initiative LC-27.1 <i>Drafting a Disaster Debris plan</i>			The District will draft a separate and more detailed Disaster Debris plan to accompany the Disaster Debris chapter of the Lorain County Emergency Management Plan.	2014	2017
Initiative LC-27.2 <i>Annually updating contracts and quotes</i>			The District will review contracts and update price quotes annually to ensure they are valid if a disaster occurs.	2013	2025
Third Party Financial Audit	LC-28	District-wide	The District solicits a third party financial audit on a biannual basis. A financial overview of revenue and expenditures is presented at most policy committee meetings to keep members informed and maintain transparency between audits.	Ongoing	Ongoing

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Host Community Agreement	LC-29	District-wide	The District reserves the right to negotiate a host community agreement with any solid waste facility operator where the Board of Directors believes an agreement is in the best interests of the District. Approval of a Host Community Agreement must be in accordance with all applicable Ohio laws and regulations. The Host Community Agreement between Republic Waste Services remained in effect as of 2014, which requires Republic Waste Services to pay \$0.60 for each ton of out-of-district waste delivered to the Lorain County Landfill.	Ongoing	Ongoing
Consortium for Waste Services	LC-30	District-wide	The District will provide technical assistance and start-up seed money for consortiums for solid waste, recycling, and/or composting collection services to Lorain County political subdivisions/institutions/organizations/businesses. In order to qualify for assistance, the District may require that services for the joint-bidding process support the District's goals.	2013	Ongoing
Initiative LC-30.1 <i>Improving consortiums and inviting all District political subdivisions to participate</i>			The District will focus on improving each successive consortium for waste services by improving issues that arose during previous consortiums. In addition all political subdivisions will be informed of the consortium and invited to participate either in the existing consortium or a new consortium if warranted.	2015	2025 (or as needed)
Zero Waste Planning	LC-31	District-wide	The District will identify candidates (political subdivisions) to participate in a zero waste planning activity and fund planning efforts.	2015	2025
Initiative LC-31.1 <i>Promoting zero waste concepts on behalf of community leaders</i>			The District and/or its representatives will attend meetings with community leaders and the public to promote the benefits of adopting a zero waste plan and address questions or concerns related to implementing a zero waste strategy.	2015	2025 (or as needed)
Initiative LC-31.2 <i>Providing technical assistance to draft and adopt a ZWP</i>			The District will provide technical assistance to communities interested in drafting and adopting a ZWP, which may include helping communities identify solutions for resources (time, funding, personnel) needed to achieve goals outlined in the ZWP.	2015	2025 (or as needed)
Waste Audits Program	LC-32	District-wide	The District conducts waste assessments and audits for businesses, industries, and institutions that request the service.	2015	2025

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-32.1 <i>Program promotion</i>			The District will promote waste audits on its website, at Business Roundtable meetings, in the Annual Report booklet, and by targeted promotional activities. The District will develop a list of ideal candidates to target for promotion of this service that could benefit from waste audits by reviewing disposal data reported on the District's annual commercial, institutional, and industrial survey. Entities reporting high volumes of waste will be directly contacted about receiving a free waste audit.	2015	2025 (or as needed)
Initiative LC-32.2 <i>Using a template for audits</i>			A waste audit report conducted by the District in 2012 will serve as a template for future waste audits to minimize staff time.	2015	2025 (or as needed)
Commercial/Industrial Recycling Recognition Program	LC-33	District-wide	The District will operate a program to recognize commercial and industrial businesses for recycling and waste reduction activities.	Ongoing	Ongoing
Initiative LC-33.1 <i>Restructuring program</i>			<p>This program will be restructured to allow businesses to apply for membership in the District's Green Business Directory by submitting an application which will be developed by the District. The Green Business Directory will, at a minimum, be updated annually. The Green Business Directory will recognize environmentally sustainable businesses by providing the business's contact information and a description of the environmental initiatives they employ. At a minimum, the directory of businesses will be available on the District's website.</p> <p>In order to join the Green Business Directory, businesses must submit a response to the District's annual recycling survey. The District will add questions to its survey to identify businesses that accept materials for recycling and which businesses are seeking recycled materials to sustain operations.</p>	2015	2025
Initiative LC-33.2 <i>Providing window decals</i>			The District will provide window decals for businesses that meet the requirements of the recognition program so businesses can advertise their commitment to recycling to their customers.	2015	2025
Business Recycling Round Table	LC-34	District-wide	The District facilitates and promotes recycling roundtable discussions for the business community that focus on innovative recycling processes and applications related to solid waste and recycling contracts, cooperatives, programs, and other related matters.	2015	2025

**Table M-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-34.1 <i>Program promotion</i>			The District will generate interest in Business Recycling Roundtable meetings on its website, through targeted advertisements, and in the Annual Report booklet. The District will work with the Lorain County Chamber of Commerce, the Lorain Growth Partnership, and other local business associations to promote upcoming events.	2015	2025
Initiative LC-34.2 <i>Summarizing and posting meeting highlights</i>			The District will create a summary of each Business Recycling Roundtable meeting, including topics discussed, available resources, and contact information for presenters and electronic copies of presentations. The summary will be posted on the District's website for businesses that were unable to attend the meeting due to scheduling conflicts.	2015	2025
Yard Waste Incentive Grant	LC-35	District-wide	The District will develop a new grant program for political subdivisions to increase yard waste diversion.	2016	2025
Initiative LC-35.1 <i>Developing grant guidelines</i>			The District will develop grant guidelines that include how political subdivisions qualify for funding, how the amount of funding for each political subdivision is calculated, how funds must be used, and timeframes for applying for the incentive grant.	2015	2015
Initiative LC-35.2 <i>Implementing grant program</i>			The District will provide technical assistance to political subdivisions regarding how to implement or upgrade yard waste collection systems in order to maximize the effectiveness of the grant program.	2016	2025
Initiative LC-35.3 <i>Providing technical assistance</i>			The District will provide technical assistance to political subdivisions regarding how to implement or upgrade yard waste collection systems in order to maximize the effectiveness of the grant program.	2016	2025
Bar/Restaurant Glass Recycling	LC-36	Targeted areas: Amherst, Avon, Avon Lake, Elyria, Lorain, North Ridgeville, Oberlin, and Wellington	The District will begin developing and implementing a phased program aimed to increase recycling of glass generated at bars and restaurants.	2015	2025
Initiative LC-36.1 <i>Phase I – Pilot Study Assessment</i>			The District will survey potential participants, identify glass processors, review potential locations for a pilot study, evaluate opportunities for grant funding, and prepare a phase I report summary for the Board of Commissioners and Policy Committee.	2014	2016

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-36.2 <i>Phase II – Pilot Study Implementation</i>			The District will select a glass processor, negotiate a contract with the glass processor, select a location for the pilot study, order equipment, and prepare a phase II pilot study implementation report for the Board to evaluate whether phase III will be implemented.	2016	2017
Initiative LC-36.3 <i>Phase III – Implementation and Data Collection</i>			If the Board decides to move forward after LC-36.2 is completed, the District will deliver equipment to participating bars/restaurants, notify vendors of the start date for the pilot study, obtain weights from vendor, and prepare quarterly progress reports. If the Commissioners determine it is in the best interests of the District to modify or terminate this pilot study for any reason during this planning period, it is their under their purview to make that decision without any repercussions from the State of Ohio, municipalities or participants of the program.	2017	2019
Lorain County Recycling Scholarship	LC-37	District-wide	The District will contribute \$10,000 in 2016 and \$5,000 annually from 2017 to 2019 to create an endowment fund for the Lorain County Community College Foundation to be used for recycling scholarships. It will be open to all 12th grade public and private High School seniors in Lorain County who are enrolling at the Lorain County Community College, students currently enrolled at LCCC or the University Partnership through LCCC, and currently enrolled LCCC Post-Secondary Enrollment (PSEO) students. DoppstadtUS agreed to fund the first three years of the scholarship beginning in 2016 so funding that the District provides can be reserved until the scholarship fund operates as an endowment.	2016	2020
Multi-Family Housing Unit Recycling Grant	LC-38	District-wide	The District will expand recycling infrastructure throughout the county that supports diversion activities for residents in MFH units.	2016	2020
Initiative LC-38.1 <i>Providing grant funding to political subdivisions</i>			The District will provide grant funding to interested political subdivisions to implement a drop-off or recycling program targeted at MFH units. Grant funding will be limited to \$50,000 per year.	2016	2020

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-38.2 <i>Providing grant funding to MFH unit property managers</i>			The District will work with apartment property managers to implement a recycling program in an apartment complex or multi-family complexes. In order to be eligible, apartment complexes would be required to sign a three year agreement with the hauler for the service. Year one would be covered by the District; Years two and three would be covered by the apartment complex. The District will target three to five apartment complexes annually. Funding will be allocated at \$35,000 per year.	2016	2020
Landfill Capacity Conservation	LC-39	District-wide	The District will implement a program to conserve local landfill capacity.	2016	2025
Initiative LC-39.1 <i>Determining the origin of landfill waste</i>			The District will determine the origin of waste accepted at the Lorain County Landfill through a combination of surveying, interviews with generators or haulers, or a waste sort. The District will identify the types of materials being landfilled and estimate the quantities of each material.	2016	2018
Initiative LC-39.2 <i>Determining the composition of landfill waste</i>			Using results obtained through Initiative 39.1, the District will provide a data collection system for significant generators of waste that is accepted at the Lorain County Landfill in order to track the amount generated, disposed, recycled, and reused. This type of information would facilitate establishing higher rates of recovery.	2016	2025
Initiative LC-39.3 <i>Identifying need for local material exchange network</i>			Based on the results of the District's research regarding the types and quantities of materials generated and managed at the landfill, the District will determine whether a waste exchange database or directory should be developed. The District will develop a database or directory if it is determined that such a directory or database could significantly reduce the volume of wastes disposed annually.	2018	2025
Initiative LC-39.4 <i>Developing a sample SOP for political jurisdictions</i>			The District will develop a sample standard operating procedure (SOP) document for materials recycling specification for publicly-funded construction and demolition projects within a political jurisdiction. The District will educate political jurisdictions about the importance of reducing waste from C&D projects and the benefits of establishing an SOP addressing the issue. Once adopted by political jurisdictions, private sector construction and demolition projects could also be encouraged to adopt the specification.	2016	2025

**Table VI-5
Implementation Schedule for Facilities,
Strategies, Programs and Activities: Dates and Description**

Program Name	ID #	Location	Description of Program/Facility	Duration	
				Begin	Cease
Initiative LC-39.5 <i>Providing technical assistance</i>			The District will provide technical assistance to contractors and construction firms to improve recycling of construction and demolition debris, using Ohio EPA best practices and resources for exempt and construction/demolition materials.	2016	2025
Energy from Waste Feasibility Assessment	LC-40	District-wide	The Lorain County Solid Waste Management District (LCSWMD) will explore potential improvements in waste reduction via EFW technologies and/or solicit interest from other organizations to implement these technologies locally. The District may use the funds allocated to analyze proposals and perhaps provide seed funding if there is an organization that has a legitimate technology and financing. The District may provide technical assistance and possibly financial assistance in developing a local project using an EFW technology.	2016	2020

**Table VI-6
Facilities Identified and Current Designations**

Facilities Identified
Recycling Facilities
Recycling Facilities* - Lorain County, Ohio
Compost Facilities
Compost Facilities* - Lorain County, Ohio
* All of the recycling and composting facilities presented in the tables in Section III are identified for the purposes of this Plan Update.
Designated Facilities - ORC 343.14
Republic Lorain County Landfill

VII. Measurement of Progress Toward Waste Reduction Goals [ORC Section 3734.53(A)]

The Ohio EPA *1995 State Plan* establishes seven goals solid waste management districts (SWMDs) are required to achieve in their solid waste management plans. These goals are as follows:

Goal #	Description
#1	Ensure the availability of reduction, recycling and minimization alternatives for municipal solid waste by ensuring 90% of residents have access to curbside and drop-off programs. The District must also demonstrate that there are adequate opportunities for industrial businesses to recycle.
#2	Reduce and/or recycle at least 25% of the total waste generated by the residential/commercial sector and 50% of the total waste generated by the industrial sector.
#3	Provide informational and technical assistance on source reduction.
#4	Provide informational and technical assistance on recycling, reuse, and composting opportunities.
#5	Strategies for scrap tires and household hazardous wastes.
#6	Annual reporting of plan implementation.
#7	Market development strategy (optional).

SWMDs are encouraged to meet Goal #1 and Goal #2, but are only required to demonstrate compliance with one goal or the other. Goals #3 through #6 are mandated goals to which SWMDs must demonstrate compliance, and Goal #7 is optional. This section will cover the goal selected by the District, its progress toward achieving the goal, and plans to maintain compliance throughout the planning period.

A. Compliance with Goal #1

The District will continue to comply with Goal #1 of the *1995 State Plan*, which states that the District will ensure the availability of recycling and other waste reduction methods that are alternatives to landfilling for residential/commercial solid waste.

B. Demonstration of Compliance with Goal #1

Table VII-1, Materials Designated to Demonstrate Compliance with Goal #1, presents four materials designated for the residential sector and four materials designated for the commercial/industrial sector. The four materials designated for the residential sector are newspaper, steel, aluminum and plastic containers.

Designated Materials for the Residential Sector



The four materials designated for the commercial/industrial sector are cardboard, office paper, aluminum containers and wooden pallets/ packaging.

Designated Materials for Commercial/Industrial Sector



1. Residential Sector

The Plan Format prescribes a formula for solid waste management districts to use to determine the percentage of the population which has access to curbside and drop-off recycling services. The types of services offered within the District are listed below and include an explanation of the population credit assigned to each type of service.

Non-Subscription Curbside Recycling

A solid waste district receives 100% population credit when all residential single family households receive curbside recycling service. In order to qualify, all residents must receive the curbside recycling service whether they use the service or not. Typically, payment for the service is made by the resident to the political subdivision or directly to the hauler or by the political subdivision through local taxes.

Subscription Curbside

A solid waste district receives 25% population credit when a subscription service is offered by waste haulers operating in the political subdivision. Subscription curbside recycling is a service that is paid directly by the resident similar to a magazine subscription. The resident chooses to subscribe to a hauler that provides the recycling service. The credit for subscription service can be higher than 25% if the District can demonstrate more homes participate in the subscription service.

Recycling Drop-Offs

Credit may be taken for 2,500 persons served in a rural area and 5,000 persons served in an urban area per full service drop-off.

Rural areas are defined as any municipality or township with less than 5,000 in population. An urban area is defined as any municipality or township equal to or greater than 5,000 in population. A full service drop-off is a site that is open to the public at least 40 hours per week which manages the four materials designated for the residential sector (newspaper, steel, aluminum, and plastic). A part-time drop-off is a site that is open to the public less than 40 hours per week; however, the site is available at a regularly scheduled time at least once per month. The part-time drop-off must also handle the four materials designated for the residential sector. Credit may be taken for 2,500 persons served in a rural or urban area per part-time drop-off.

a. Service Area

The service area includes the entire District, which includes all of Lorain County and the portion of the City of Vermillion in Erie County.

b. Access

Residents in the District have access to waste reduction/recycling services through non-subscription curbside programs and recycling drop-off locations. Table VII-2 summarizes the District’s access credit during the 2013 reference year and 2016, the first year of the planning period. In 2013 and 2016, the District exceeds a 100% recycling access rate for the residential sector.

Curbside Recycling Access Results

The curbside recycling access calculation was based on the population of each political subdivision in 2013 and 2016. All political subdivisions in the District have non-subscription curbside recycling. The District achieved a 100% access credit from this program. All curbside recycling programs are expected to continue in 2016.

Curbside Recycling Population Access

Service Area	Reference Year Access % (2013)	First Year of Planning Period Access % (2016)
Non-Subscription Curbside Recycling	100%	100%

Drop-Off Recycling Access Results

In 2013, one full-time drop-off was located at the Eaton Township building. Five additional drop-offs that operated on a part-time basis were located in Brighton Township, Camden Township, Huntington Township, Penfield Township, and at the Lorain County Collection Center. Drop-offs are open to anyone in the District and all six accepted at a minimum the four materials designated for the residential sector as highly amenable to recycling. The District gained an additional access credit of 17,500 from the drop-off recycling program. The following table shows the access credit calculation for the drop-off recycling program:

Drop-Off Recycling Population Access

Drop-off	2013		2016	
	Population	Credit	Population	Credit
Full-Time				
Eaton Twp.	5,777	5,000	5,835	5,000
Part-Time				
Brighton Twp.	908	2,500	917	2,500
Camden Twp./ Kipton Village	1,659	2,500	1,676	2,500
Huntington Twp.	1,334	2,500	1,347	2,500
Penfield Twp.	1,792	2,500	1,810	2,500
Lorain County Collection Center	53,956	2,500	54,498	2,500
Total Access Credit		17,500		17,500

Overall Recycling Access Results

The District exceeded a 100% recycling access credit in the reference year. The access calculation for 2013 is as follows:

$$(\text{Curbside Recycling Credit} + \text{Drop-Off Recycling Credit}) \div \text{District Population} = \text{Access Percentage}$$

$$(307,506 + 17,500) \div 307,506 = 106\%$$

All of the curbside recycling programs and drop-off locations that operated during the reference year are expected to continue through the first year in the planning period. The District will maintain an access percentage that exceeds 100% in 2016. The following figure summarizes the total population access credits and access rate in 2013 and 2016.

Overall Recycling Results

Lorain County SWMD	Reference Year (2013)	First Year of Planning Period (2016)
Population with Access	325,006	328,096
District Population	307,506	310,597
90 Percent of Population	276,755	279,536
Percent Access	106%	106%

c. Participation

The strategies identified in Sections IV and V address the requirements for education and awareness to demonstrate participation. The District will continue to conduct education and awareness programs as planned. The existing education and community awareness programs meet or exceed State Plan requirements. For example, the District maintains the following:

- A web site;
- A comprehensive resource guide;
- An inventory of available infrastructure; and
- An outreach and education coordinator

d. Financial Incentives

In addition to the education and awareness programs articulated in this *Plan Update*, the District operates the Community Incentive Grant Program (LC-17), which provides political subdivisions with funding to maintain or improve their curbside recycling program. Communities are encouraged to use incentive grant funds to secure higher participation rates through education and awareness programs, social marketing campaigns, and equipment purchases. The District is also developing an incentive grant program for political subdivisions that aims to increase yard waste diversion (LC-35). This program is expected to begin by the first year of the planning period. The District is developing a multi-family housing unit grant (LC-38). This program is to be developed in 2016.

2. Commercial/Industrial Sector

Solid waste management districts must demonstrate that commercial and industrial generators have access to recycling or other alternative management methods for at least four materials identified in the *1995 State Solid Waste Management Plan* as being highly amendable to recovery from solid waste generated by commercial and industrial generators.

a. Service Area

The service area includes Lorain County and a portion of the City of Vermilion in Erie County.

b. Access

Methods of providing access for commercial/industrial entities include hauler pickup and drop-off (or buyback) availability. The District designated four materials as highly amenable to recycling for the commercial and industrial sectors including cardboard, office paper, aluminum containers, and wooden pallets/packaging.

Districts must demonstrate at least one of the following collection options:

- At least one drop-off available or buyback available.
- Haulers which will pick up recyclables for a fee or at no charge.
- At least one MRF receiving commercial/industrial waste and recovering recyclables from waste received.

The District’s six drop-off recycling locations are publicly available and open to commercial and industrial generators. Drop-off centers accept all four of the required materials that are designated as highly amenable to recycling for the commercial/industrial sector (cardboard, office paper, aluminum containers and wood packaging and pallets).

The following tables present haulers and drop-off locations that provide District businesses with opportunities to recycle each of the four materials designated for the commercial and industrial sectors.

Cardboard Access Demonstration

Hauling Services Available	Drop-Off Service Available
Associated Paper Stock Environmental Recycling Gateway Recycling Green Innovations Intercon Solutions Jasar Recycling Kendrick Environmental Medina Paper Recycling Milliron Recycling National Material Recycling Niles Metal & Iron Co.	EWJ International (formerly Abitibi) Lorain Co. Collection Center Medina Paper Recycling Milliron Recycling River Valley Paper Goodwill

Hauling Services Available	Drop-Off Service Available
Northcoast Recycling Republic Waste River Valley Paper Co. Rumpke Waste S. Slesnick Co. Shredding Network Waste Management	

Office Paper Access Demonstration

Hauling Services Available	Drop-Off Service Available
All Ohio Secure Shred Business Record Management Cintas Gateway Recycling Infoshred.Net Jasar Recycling Medina Paper Recycling Milliron Recycling Niles Metal & Iron Co. Republic Waste River Valley Paper Co. Rumpke Waste Shredding Network Shred-It Waste Management	EWJ International (formerly Abitibi) Lorain County Collection Center Cintas Document & Paper Shredding Medina Paper Recycling Milliron Recycling River Valley Paper Co.

Aluminum Containers Access Demonstration

Hauling Services Available	Drop-Off Service Available
Elyria Recycling Environmental Recycling Intercon Solutions Gateway Recycling Jasar Recycling Milliron Recycling National Material Recycling Niles Metal & Iron Co. PSC Metals ScrapCom Republic Waste Rumpke Waste Waste Management	EWJ International (formerly Abitibi) Blue Star Metal Recycling Elyria Recycling Ferrotrade Ferrous Processing & Trading Lorain County Collection Center Milliron Recycling Niles Metal & Iron Co. PSC Metals Rock Creek Aluminum Recycling

Wooden Packaging and Pallet Access Demonstration

Hauling Services Available	Drop-Off Service Available
Cimino Box and Pallet Co. Dobie Pallets, Inc. Intercon Solutions IFCO JDS Trucking Kurtz Bros Republic Waste Rumpke Waste Medina Mulch	Dobie Pallets, Inc. JDS Trucking Kurtz Bros Medina Mulch Sam's Pallet Repair

c. Participation

Education and Awareness

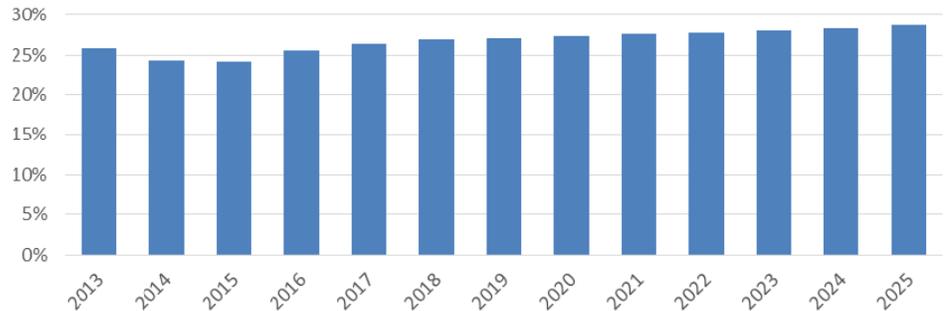
The education and awareness programs articulated in Sections IV and V of this *Plan Update* address this requirement. The District assembles Business Roundtable discussions multiple times per year to provide a forum for businesses to learn about disposal alternatives, the latest innovations in waste reduction, re-use and recycling, and other subjects that address sustainability. The District's restructured Commercial/Industrial Recycling Recognition Program (LC-33) will serve as an outreach program designed to increase participation in recycling. Commercially available recycling facilities in the District are publicized via MyEcoVille on the District's website. In addition, if requested, the District conducts waste assessments for no cost to local businesses, industries and institutions.

C. Targets for Reduction and Recycling

1. Residential and Commercial Sectors

Table VII-3, "Annual Rate of Waste Reduction: Residential/Commercial Waste", presents the annual waste reduction rates for residential and commercial waste. The District's residential/commercial sector had a waste reduction rate of 26% in the reference year (2013). Waste reduction is projected to rise to 29% by the end of the planning period (2025). The following figure presents the District's residential/commercial waste reduction projections throughout the planning period.

District Residential/Commercial Waste Reduction (2013 – 2025)

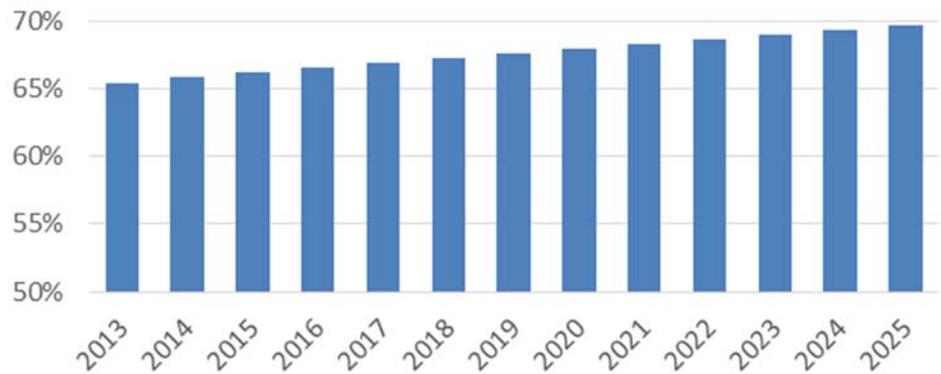


The initial decrease in waste reduction from 2013 to 2014 is due to a projected decrease in yard waste. Reported yard waste totals in 2013 were higher than usual and the District projects that in 2014 the total tons managed will likely return to the County’s typical range. Programs like Zero Waste Planning (LC-31), the Yard Waste Incentive Grant (LC-35), and the Bar/Restaurant Glass Recycling program will contribute significantly to the residential/commercial sector’s increasing waste reduction percentage. The District believes the projected increase in the waste reduction rate is modest and perhaps even understated. As a point of reference, the District’s residential/commercial waste reduction rate has increased from 19% to 26% from the reference year of the last Plan Update in 2008 to the current reference year (2013).

2. Industrial Sector

Table VII-4, “Annual Rate of Waste Reduction: Industrial Waste,” presents the annual waste reduction rate for industrial waste. The District’s industrial sector had a waste reduction rate of 66% in the reference year (2013). The waste reduction rate target for industrial waste is projected to rise to 70% by the end of the planning period (2025). The following figure presents the District’s industrial waste reduction projections throughout the planning period.

District Industrial Waste Reduction (2013 – 2025)



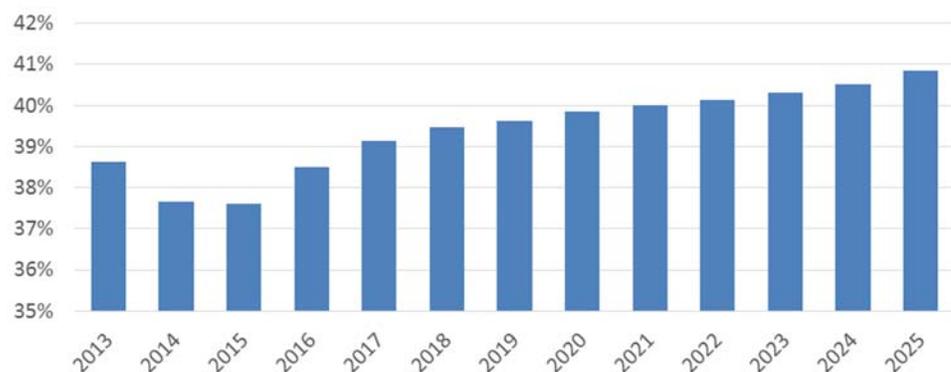
The District projects that industrial sector disposal will decrease and recycling will increase throughout the planning period. The projections are based on trends identified from totals reported in recent ADRs.

3. District Total

Table VII-5, “Annual Rate of Waste Reduction: Total District Solid Waste”, presents annual waste reduction rates for the residential/commercial and industrial sectors. The District’s annual waste reduction rate for the reference year (2013) was 39%. The waste reduction rate is expected to increase to 41% by the end of the planning period.

Daily per capita waste reduction rates are expected to increase from 2.94 pounds in 2013 to 3.22 pounds in 2025. The following figure presents the District’s total waste reduction throughout the planning period.

District Total Waste Reduction Percentage (2013 – 2025)



**Table VII-1
Materials Designated to Demonstrate Compliance with Goal #1**

Materials Highly Amenable to Recycling	Four Materials Designated for the Residential Sector	Four Materials Designated for the Commercial/Industrial Sector	Number of Times Materials are Designated
Corrugated cardboard		X	1
Office paper		X	1
Newspaper	X		1
Glass containers			
Steel containers	X		1
Aluminum containers	X	X	2
Plastic containers	X		1
Wood packaging & pallets		X	1
Lead-acid batteries			
Major appliances			
Yard wastes			
Totals	4	4	8

**Table VII-2
Calculation of Access for Residential Sector**

Program	Reference Year (2013)		Year 2016	
	2013 Population	Population with Access	2016 Population	Population with Access
Non-Subscription Curbside				
Amherst City	12,112	12,112	12,234	12,234
Amherst Township	5,663	5,663	5,720	5,720
City of Avon	22,017	22,017	22,238	22,238
City of Avon Lake	22,998	22,998	23,229	23,229
Brighton Township	908	908	917	917
Brownhelm Township	1,797	1,797	1,815	1,815
Camden Township	1,416	1,416	1,430	1,430
Carlisle Township	7,455	7,455	7,530	7,530
Columbia Township	7,094	7,094	7,165	7,165
Eaton Township	5,777	5,777	5,835	5,835
City of Elyria	53,956	53,956	54,498	54,498
Elyria Township	3,233	3,233	3,265	3,265
Grafton Township	2,831	2,831	2,859	2,859
Grafton Village	6,007	6,007	6,067	6,067
Henrietta Township	1,853	1,853	1,872	1,872
Huntington Township	1,334	1,334	1,347	1,347
Kipton Village	243	243	245	245
Lagrange Township	4,050	4,050	4,091	4,091
Village of Lagrange	2,105	2,105	2,126	2,126
New Russia Township	1,932	1,932	1,951	1,951
City of North Ridgeville	31,269	31,269	31,583	31,583
City of Oberlin	8,390	8,390	8,474	8,474
Penfield Township	1,792	1,792	1,810	1,810
Pittsfield Township	1,593	1,593	1,609	1,609
Village of Rochester	182	182	184	184
Rochester Township	624	624	630	630
City of Sheffield Lake	9,067	9,067	9,158	9,158
Sheffield Township	3,702	3,702	3,739	3,739
Sheffield Village	4,017	4,017	4,057	4,057
South Amherst	1,671	1,671	1,688	1,688
City of Vermillion	10,490	10,490	10,595	10,595
Wellington Township	1,398	1,398	1,412	1,412
Village of Wellington	4,820	4,820	4,868	4,868
City of Lorain	63,710	63,710	64,350	64,350
Subtotal Non-Subscription Curbside		307,506		310,596
Subscription Curbside				
None	0	0	0	0
Subtotal Subscription Curbside		0		0
Full-Time Drop-Off				
Eaton Township	5,777	5,000	5,835	5,000
Total Full Time Drop-Off		5,000		5,000
Part-Time Drop-Off				
Brighton Township	908	2,500	917	2,500
Camden Township/Kipton Village	1,659	2,500	1,676	2,500
Huntington Township	1,334	2,500	1,347	2,500
Penfield Township	1,792	2,500	1,810	2,500
Lorain County Collection Center	53,956	2,500	54,498	2,500
Total Full Time Drop-Off		12,500		12,500
Total Population With Access		325,006		328,096
District Population		307,506		310,596
90% of District Population		276,755		279,536
Additional Population Needing Access		-48,251		-48,560
Access Percentage		106%		106%

**Table VII-3
Annual Rate of Waste Reduction: Residential/Commercial Waste**

Year	Recycling	Composting	Gross Incineration	Waste Reduction via Incineration	Landfill	Total Waste Reduction	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2013	37,336	37,237	7	5	214,529	74,577	307,506	26%	1.33
2014	38,437	32,548	7	5	220,912	70,989	308,536	24%	1.26
2015	38,847	32,548	7	5	223,319	71,400	309,566	24%	1.26
2016	40,341	35,548	7	5	221,667	75,894	310,596	26%	1.34
2017	41,304	38,048	7	5	221,071	79,356	311,626	26%	1.40
2018	42,041	39,548	7	5	221,724	81,593	312,656	27%	1.43
2019	42,830	40,048	7	5	223,349	82,882	313,685	27%	1.45
2020	44,160	40,548	7	5	224,458	84,713	314,715	27%	1.47
2021	45,001	41,048	7	5	226,040	86,054	315,704	28%	1.49
2022	45,929	41,548	7	5	227,560	87,481	316,692	28%	1.51
2023	46,960	42,048	7	5	229,001	89,013	317,680	28%	1.54
2024	48,115	42,548	7	5	230,344	90,667	318,668	28%	1.56
2025	49,966	43,048	7	5	231,015	93,018	319,657	29%	1.59

Source(s) of information:

Recycling, composting, incineration, and landfill tonnage - Table VI-2
 Gross incineration and waste reduction via incineration - Table VI-1
 Population - Table V-1

Sample calculations (2013):

Recycling + composting + waste reduction via incineration = Total waste reduction
 37,336 tons + 37,237 tons + 5 tons = 74,577 tons

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate
 74,577 tons / (74,577 tons + 214,529 tons) x 100 = 26%

(Total waste reduction x 2,000 lbs) ÷ (District population x 365 days) = Per capita waste reduction rate
 (74,577 tons x 2,000 pounds) / (307,506 x 365) = 1.33 lbs/day

**Table VII-4
Annual Rate of Waste Reduction: Industrial Waste**

Year	Recycling	Landfill	Population	Waste Reduction Rate (%)	Per Capita Waste Reduction Rate (lb/day)
2013	90,589	47,858	307,506	65%	1.61
2014	90,951	47,284	308,536	66%	1.62
2015	91,315	46,716	309,566	66%	1.62
2016	91,680	46,156	310,596	67%	1.62
2017	92,047	45,602	311,626	67%	1.62
2018	92,415	45,055	312,656	67%	1.62
2019	92,785	44,514	313,685	68%	1.62
2020	93,156	43,980	314,715	68%	1.62
2021	93,528	43,452	315,704	68%	1.62
2022	93,902	42,931	316,692	69%	1.62
2023	94,278	42,415	317,680	69%	1.63
2024	94,655	41,906	318,668	69%	1.63
2025	95,034	41,404	319,657	70%	1.63

Source(s) of information:

Recycling and landfill data - Table VI-3

Population - Table V-1

Sample calculation (2013):

$$\text{Recycling} \div (\text{recycling} + \text{landfill}) \times 100 = \text{Waste reduction rate}$$

$$90,589 \text{ tons} \div (90,589 \text{ tons} + 47,503 \text{ tons}) \times 100 = 66\%$$

$$\text{Recycling} \times 2,000 \text{ pounds} \div (\text{district population} \times 365 \text{ days}) = \text{Per capita waste}$$

$$(90,589 \text{ tons} \times 2,000 \text{ pounds}) \div (307,787 \times 365) = 1.61 \text{ lbs/day}$$

**Table VII-5
Annual Rate of Waste Reduction: Total District Solid Waste**

Year	Recycling	Composting	Gross Incineration	Waste Reduction via Incineration	Landfill	Tons Waste Reduction	Population	Waste Reduction Rate	Per Capita Waste Reduction Rate (lb/day)
2013	127,924	37,237	7	5	262,387	165,166	307,506	39%	2.94
2014	129,387	32,548	7	5	268,196	161,940	308,536	38%	2.88
2015	130,162	32,548	7	5	270,035	162,715	309,566	38%	2.88
2016	132,021	35,548	7	5	267,823	167,574	310,596	38%	2.96
2017	133,350	38,048	7	5	266,672	171,403	311,626	39%	3.01
2018	134,456	39,548	7	5	266,778	174,008	312,656	39%	3.05
2019	135,614	40,048	7	5	267,863	175,667	313,685	40%	3.07
2020	137,316	40,548	7	5	268,438	177,869	314,715	40%	3.10
2021	138,529	41,048	7	5	269,492	179,582	315,704	40%	3.12
2022	139,831	41,548	7	5	270,491	181,384	316,692	40%	3.14
2023	141,238	42,048	7	5	271,417	183,291	317,680	40%	3.16
2024	142,770	42,548	7	5	272,250	185,322	318,668	41%	3.19
2025	145,000	43,048	7	5	272,419	188,052	319,657	41%	3.22

Source(s) of information:

Recycling, composting, incineration, waste reduction via incineration, landfill, and population - Tables VII-3 and VII-4

Sample calculation (2013):

Recycling + composting + waste reduction via incineration = Tons waste reduction
 127,924 tons + 37,237 tons + 5 tons = 165,166 tons

Total waste reduction ÷ (total waste reduction + landfill) x 100 = Waste reduction rate
 165,166 tons / (165,166 tons + 262,016 tons) x 100 = 39%

(Total waste reduction x 2,000 lbs) ÷ (District population x 365 days) = Per capita waste reduction rate
 (165,166 tons x 2,000 pounds) / (307,787 x 365) = 2.94 lbs/day

VIII. Cost of Financing Plan Implementation [ORC Section 3734.53(A)(9), (12) and (B)]

This section of the Plan provides information on the District's revenues and expenditures. The revenues and expenditures presented for 2013 and 2014 are based on actual revenues received and costs expended. The planning period includes cost projections based on these initial years.

A projection on the estimated funds needed to operate is provided for each District program. The budget is a demonstration that the District can implement the initiatives, strategies, programs and facilities detailed in Sections IV and V of this *Plan Update*. The budget is to be reviewed as a planning tool with anticipation that circumstances on actual revenues and costs may change and adjustments will be made by the District as appropriate. The tables referenced throughout Section VIII of this *Plan Update* are included at the end of the section.

This *Plan Update* provides the Board of County Commissioners with the authority to implement and negotiate a Host Community Agreement with any person or municipal corporation or township for collection, storage, transfer, disposal, or reservation of disposal capacity, recycling, composting, processing, resource recovery, or energy recovery services on any terms and for such consideration as the Board determines to be in District's interest.

A. Funding Mechanisms

1. District Disposal Fees

Table VIII-1, "District Disposal Fee Schedule and Revenues Generated," presents an estimate of total District disposal fee revenues for the planning period. The District has a flat \$2.00 per ton disposal fee for in-district, out-of-district, and out-of-state waste. In 2013, the District's Quarterly Fee Reports indicate that \$1,801,730 in revenue was received from disposal fees.

The total in-district and out-of-district tonnage in Table VIII-1 for 2014 was calculated by using the totals from the District's first three Quarterly Fee Reports. The fourth quarter was projected by using the totals reported for the second quarter. Historically, the District's total revenue has varied greatly from quarter to quarter, but the totals reported in the second quarter most accurately reflect the totals that can be expected in the fourth quarter.

The percentage of all District-generated landfilled waste that was disposed by direct-haul to the Lorain County Landfill for the residential/commercial and industrial sectors in 2013 was multiplied by tonnage listed in Tables VI-2 and VI-3 to project the total in-district tonnage upon which disposal fees will be levied from 2015 to 2025.

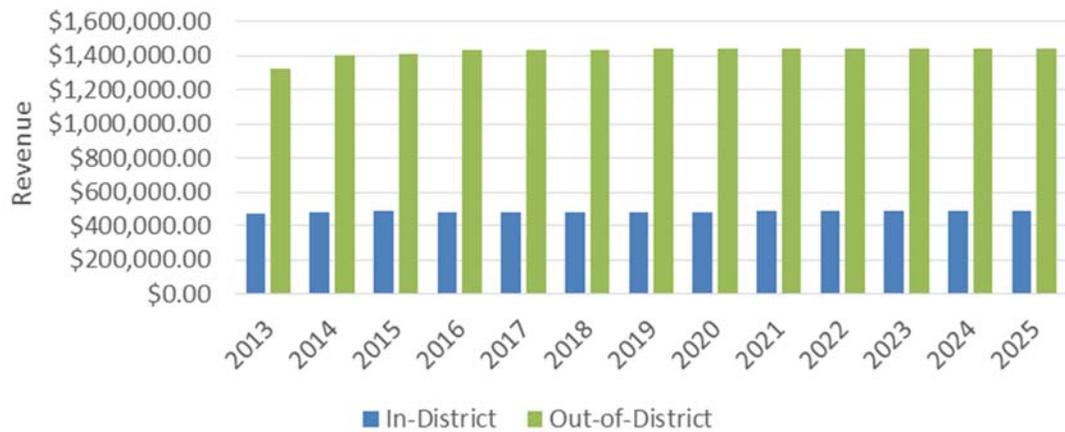
Total in-district and out-of-district tonnage subjected to disposal fees at the District increased 4.4% from 2013 to 2014. The District anticipates that overall tonnage will increase one percent annually from 2015 to 2016, then 0.1% annually from 2017 to 2025. The increases are predicted partially as a result of new efforts to enforce the District’s flow control designation. The increase in tonnage is also anticipated because the Lorain County Landfill’s tonnage has historically been higher. Tonnage decreased significantly after 2010, but recent trends indicate that the Landfill will be accepting an increasing amount of waste in the future.

Out-of-district tonnage from 2015 to 2025 was calculated by subtracting the in-district tonnage listed in Table VIII-1 from the overall residential/commercial/industrial tonnage expected to be accepted at the Lorain County Landfill.

No out-of-state tonnage was projected. The Lorain County Landfill typically does not accept waste generated outside Ohio.

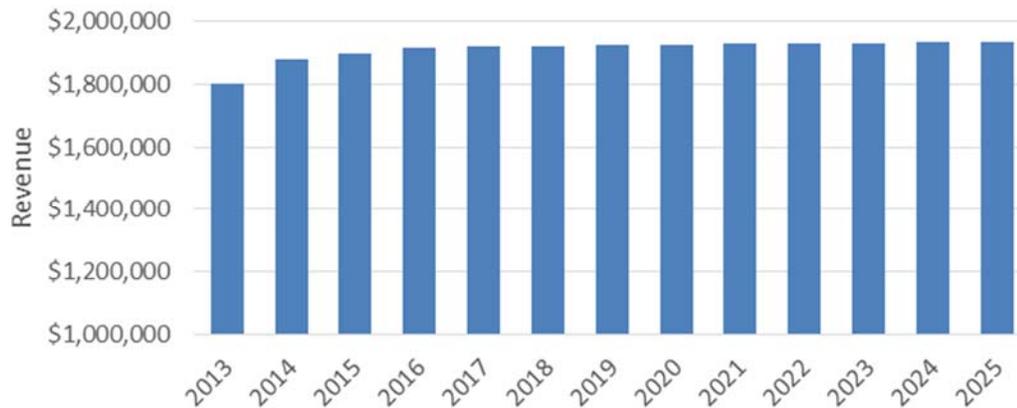
The majority (approximately 75%) of disposal fee revenue is collected from tonnage generated out-of-district. The following figure presents the actual and projected disposal fee revenue by fee type:

District Disposal Fee Revenue by Fee Type



Disposal fee revenue for the first year of the planning period is projected to be \$1,919,224. Revenue will increase modestly throughout the planning period. In 2025, disposal fee revenue is anticipated to increase to \$1,936,566. The following figure presents the total actual and projected disposal fee revenue for this *Plan Update*.

District Disposal Fee Revenue



2. Generation Fee

Table VIII-2 is not applicable to the District because the District does not have a generation fee at this time. However, the Policy Committee may determine whether it is appropriate to establish a generation fee to ensure all Lorain County generated waste is charged a \$2.00 per ton fee. Currently, if solid waste is transferred or disposed outside Lorain County the District does not receive any funding. The contingent funding Table VIII-7 also includes a generation fee of \$9.00 per ton if the landfill was to close and revenues were needed to operate the District.

3. Summary of District Revenues

Table VIII-3, “Summary of Revenue Generated and Mechanisms Used”, presents the District’s actual revenues received by all funding mechanisms for 2013, and actual 2014 revenue received from reimbursements, recycling revenue, waiver fees, and state grants. Contract fees and disposal fees for 2014 were partially projected values based on revenue reported for the first three quarters of 2014. Following are descriptions of each funding mechanism used by the District throughout the planning period and the methodology used to project each amount:

Disposal Fees

The District receives \$2.00 for each ton of residential, commercial, or industrial sector waste that is directly hauled to the Lorain County Landfill for disposal. Disposal fees for 2015 through 2025 are from Table VIII-1.

Contract Fees

Republic Waste Services entered into a Host Community Agreement with the District. The Agreement requires Republic to pay Lorain County

\$0.60 per ton for each ton of waste disposed at the Lorain County Landfill that is generated outside the District. It also requires Republic to bring all of the waste controlled by Republic in Cuyahoga County to the Lorain County Landfill in New Russia Township. The District receives the following benefits including:

- hauling and container costs for Pride Day
- free waste collection services at County buildings
- reservation of capacity for District waste at the landfill
- guarantee that all Cuyahoga County waste controlled by Republic will be brought to the Lorain County Landfill.

Contract fees are calculated by multiplying the out-of-district tonnage presented in Table VIII-1 by \$0.60. Contract fee revenue ranges from \$428,439 to \$430,690 throughout the planning period. The Host Community Agreement expired in May 2015. As of May 13, 2015, the District completed the final stages of negotiations with Republic and established another agreement. A copy of the 2015 Host Community Agreement is available in Appendix M.

Reimbursements

Typically, the reimbursements are from communities that do not use their entire Community Incentive Grant. This amount is unpredictable; therefore no values have been projected for 2015 to 2025.

Recycling Revenue

The District receives revenue from the sale of materials delivered by residents to the Collection Center. The average recycling revenue generated between 2013 and 2014 was more than \$6,600. Although recycling tonnage is expected to increase throughout the planning period, commodity pricing for recyclables is volatile. A flat conservative estimate of \$5,000 annually is projected from 2015 to 2025.

Waiver Fees

Waiver fees are collected on each ton of solid waste that is delivered to an undesignated disposal facility. Any person, legislative authority of a municipal corporation, or township may apply for a waiver from the designation requirements established in this *Plan Update*. Waiver agreements between the Board and the person who applied for the waiver will contain the terms and conditions upon which the waiver was granted and the payment by the grantee of the waiver fee, if any, assessed on each ton of solid waste covered by the waiver.

Waiver fee revenue for 2015 was calculated using the average waiver fee revenue from 2011 to 2013. The District anticipates that waiver fee revenue will return to the 2014 level by the end of the planning period. Revenue is projected to increase the same amount each year.

Grants

The District typically applies for grants from state agencies and/or organizations on an annual basis to assist with funding activities such as scrap tire collection, community recycling, and litter prevention. Grants from Ohio EPA are typically awarded in July. If the District receives an Ohio EPA grant, half is awarded during that calendar year, and the second half is awarded during the next calendar year. Grant amounts in Quarterly Fee reports and other District records may reflect different grant totals than the amounts listed in Table VIII-3 for this reason. To clarify how the 2013 and 2014 grant totals were calculated, the following tables were developed:

Grant	2012 Award	Amount Received by District in 2012	Amount to be Received by District in 2013
ODNR Litter Clean Up Grant	\$2,000	\$1,000	\$1,000
ODNR Community Development Grant	\$7,500	\$3,750	\$3,750
ODNR Scrap Tire Grant	\$15,000	\$7,500	\$7,500
ODNR Market Development Grant ~ Quality Blow Molding	\$165,000	N/A	N/A
ODNR Market Development Grant ~ Republic Services	\$250,000	N/A	N/A
Lowe's/KAB Community Improvement Grant	\$5,000	\$5,000	\$0
2012 Total	\$444,500	\$17,250	\$12,250

Grant	2013 Award	Amount Received by District in 2013	Amount to be Received by District in 2014
EPA Litter Collection Grant (Includes Tire Amnesty)	\$8,000	\$4,000	\$4,000
EPA Community Development Grant	\$25,000	\$12,500	\$12,500
Carryover from 2012		\$12,250	
2013 Total	\$33,000	\$28,750	\$16,500

Grant	2014 Award	Amount Received by District in 2014	Amount to be Received by District in 2015
EPA Litter Collection Grant (Includes Tire Amnesty)	\$12,000	\$6,000	\$6,000
EPA Community Development Grant	\$2,800	\$1,400	\$1,400
EPA Market Development Grant (Quality Blow Molding)	\$154,500	N/A	N/A
City of Oberlin (Special Assistance Grant)	\$200,000	\$100,000	\$100,000
Carryover from 2013		\$16,500	
2014 Total	\$369,300	\$123,900	\$107,400

The District received \$152,650 in grant funding from 2013 to 2014. In 2015, based on the tables above, at least \$107,400 will be received from 2014 carryover grant funding. Grant funding is not guaranteed, so no funding has been projected.

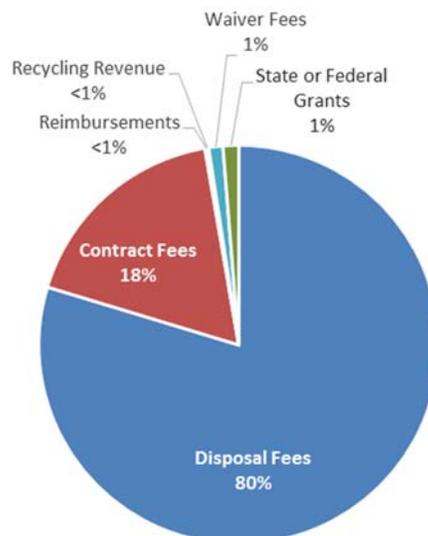
Total revenues are anticipated to increase from \$2.39 million in 2016 to \$2.42 million in 2025. The following figure presents the District's revenue by type of funding mechanism:

District Revenue by Type of Fee



The following figure presents the percentage of revenue generated by each funding mechanism used in 2013.

Percentage of Revenue Generated in 2013 by Each Funding Mechanism



In the reference year, the majority (80%) of the District’s revenue was generated from disposal fees. Contract fees provided approximately 18% of the District’s revenue, state grants provided 1%, and waiver fees provided 1%. Recycling revenue and reimbursements combined represented less than 1% of the District’s revenue.

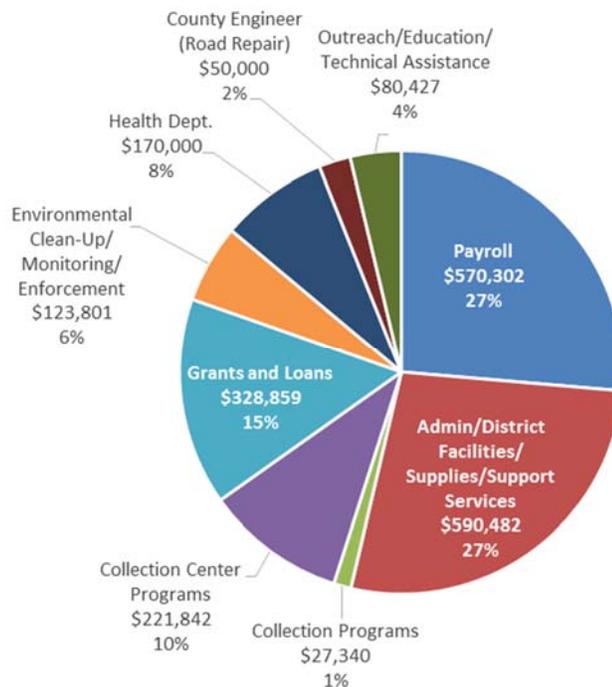
B. Cost of Plan Implementation

Table VIII-4, “Anticipated Loans Secured by the District”, indicates the District has no outstanding loans and does not anticipate securing loans during the planning period. However, if it is in the best interest of the District to develop a facility (organics management facility, energy from waste) to manage the solid waste generated by Lorain County residents and neighboring districts, the District reserves the right to obtain funding or revenues through loans or bonds and other mechanisms allowed by Ohio law. The District budgeted \$1.35 million during the planning period to account for capital improvement expenditures in the event that the District develops a facility.

Table VIII-5, “Estimated Cost for Plan Implementation”, presents a detailed breakdown of expenditures for each year of the planning period.

The District Director will allocate these funds with the approval of the County Commissioners. The following figure presents a summary of expenses in 2013:

2013 District Expenses



The expenditures presented in the Plan budget include actual expenditures and encumbrances for 2013 and 2014. Expenditures differ from the expenditures presented in the quarterly reports because quarterly fee reports are developed using cash basis accounting, while the District's detailed expenditures presented in Table VIII-5 were developed using accrual based accounting.

A detailed methodology for projecting expenditures is included in Appendix G.

Payroll Expenditures

Payroll expenditures include full-time and part-time employee salaries, PERS, Medicare, medical insurance, life insurance, workers compensation, and unemployment insurance.

For 2016, the first year of the planning period, the following funding levels are projected for each payroll line item and include a brief description of each expense line item and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Full-Time Employee Salaries	Admin-1	\$270,661	1.7%
Full-time employee salaries are projected to increase 1.7% annually based on the Social Security Administration's Cost of Living Adjustment (COLA) published on October 22, 2014.			
Part-Time Employee Salaries	Admin-2	\$93,868	1.7%*
Part-time employee salaries for Collection Center workers are projected to increase 1.7% annually based on the Social Security Administration's Cost of Living Adjustment (COLA) published on October 22, 2014.			
*In addition to the 1.7% increase, an extra \$4,800 was added to this line item to account for adding one new part-time staff member in 2015 and 2016. The total of \$4,800 is the average salary of each part-time employee.			
PERS	Admin-3	\$64,959	Special
The ratio of Public Employees' Retirement System (PERS) expenditures to full-time and part-time employee salaries in 2014 (17.82%) is used to calculate expenditures from 2015 to 2025.			
Medicare	Admin-4	\$6,707	Special

Program	Program #	2016 Budget	Annual Escalator
The ratio of Medicare expenditures to full-time salaries, part-time salaries, and sheriff's department salaries (LC-22) in 2014 (1.84%) is used to calculate expenditures from 2015 to 2025.			
Medical Insurance	Admin-5	\$105,261	Special
The ratio of medical insurance expenditures to full-time salaries in 2014 (38.89%) is used to calculate expenditures from 2015 to 2025.			
Life Insurance	Admin-6	\$502	1.0%
Life insurance is projected to increase 1.0% annually based on the 12-month percent change in various types of insurance in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Workers Compensation	Admin-7	\$9,580	Special
Workers compensation expenditures are based on adding together payroll expenses for full-time employees, part-time employees, and Sheriff's Department. The total is divided by 100 and multiplied by \$1.95, which calculates the tax rate for employers in the State of Ohio.			
Unemployment Insurance	Admin-8	\$750	Flat
A flat projection of \$750 is allotted for unemployment insurance for 2015 to 2025. In previous years, the actual expense has been less than \$300. The District rarely spends the total budget for unemployment insurance, the flat annual allotment should provide ample funding even considering inflation.			

Administrative/District Facilities, Supplies, and Support Services

Administrative and District Facilities, supplies, and support services (Admin-9 to Admin-36) include necessary expenditures for daily operations at the District's administrative office as well as expenses for operating the District's facilities (the Collection Center).

For 2016, the first year of the planning period, the following funding levels are projected for each administrative line item and include a brief description of each expense line item and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Supplies	Admin-9	\$46,088	1.7%
Supplies are projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014. The District includes Programs LC-18 and LC-21 in this total when developing budget projections. In Table VIII-5, they subtracted from this total.			
County Gas	Admin-10	\$1,961	1.7%
Gasoline for District vehicles is projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Postage	Admin-11	\$2,532	4.1%
Postage for District mailings is projected to increase 4.1%, based on the 12-month percent change in postage in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Computer Applications (Re-TRAC Connect)	Admin-12	\$4,603	1.139%
The District maintains an annual subscription to Re-TRAC Connect, a web-based computer application used to collect information about solid waste and recycling from political subdivisions and businesses throughout the District. The computer application takes the place of paper-based surveying, thereby reducing waste. Expenditures are projected to increase 1.139% annually, based on the 12-month percent change in information technology, hardware and services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Equipment	Admin-13	\$10,000	Flat
A flat annual budget of \$10,000 is allotted for equipment. Any unused portion will be rolled over from year to year to finance for any major equipment purchases. At the time this budget was prepared, planned purchases included a floor scrubber (\$15,000) in 2016 and a replacement fork truck (\$25,000) in 2017.			
Equipment Lease	Admin-14	\$369	1.7%

Program	Program #	2016 Budget	Annual Escalator
Equipment for the District's administrative office or the Collection Center may be leased on a short-term basis (one quarter per year) throughout the planning period in the event that the District needs an interim piece of equipment before the permanent acquisition or replacement of equipment is practical. The cost to rent equipment for one quarter was based off of the 2014 total and escalated by 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Building Maintenance Collection Center	Admin-15	\$1,810	1.7%
Building maintenance includes preventative maintenance, painting, cleaning, and replacement of items such as light bulbs and air filters. Building maintenance on the Collection Center is projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Computer System Equipment	Admin-16	\$3,775	1.139%
Computer system equipment includes the purchase of laptops, computers, electronic accessories such as keyboards, internet service, and computer programs. These costs are projected to increase 1.139%, based on the 12-month percent change in information technology, hardware and services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Vehicles	Admin-17	\$30,000	Special
The District plans to purchase vehicles in 2016, 2018, and 2020 beginning with a budget of \$30,000 and increasing \$5,000 for each subsequent purchase to account for inflation. The District is considering an SUV in 2016.			
Vehicle Expense	Admin-18	\$3,622	1.6%
Vehicle expenses are projected to increase 1.6% based on the 12-month percent change in vehicle repair services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Furniture/Fixtures Collection Center and Admin	Admin-19	\$3,714	1.7%
Furniture and fixtures for the Collection Center and Administrative office are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			

Program	Program #	2016 Budget	Annual Escalator
Capital Improvements	Admin-20	\$135,000	Flat
<p>Capital improvements may include the expansion of District facilities or additions or alternations that increase the value or prolong the life of the District's facilities. The District is anticipating capital improvements for the organics processing facility in the amount of \$135,000 annually beginning in 2016. The budget is based on a total amount of \$2 million amortized over 20 years. The annual amount includes the cost of interest, as well as anticipated revenue which will help offset the costs for this facility. The capital costs are to assist with up front funding. Prior to 2016, the budget was projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.</p>			
Contract Services-Copier, etc.	Admin-21	\$4,496	1.7%
<p>The District contracts for services such as use of a copier, which includes the cost to rent and use the machine, as well as ongoing support and maintenance of the machine. Costs are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.</p>			
Utilities	Admin-22	\$5,944	3.5%
<p>Utilities at the District's administrative office and Collection Center are projected to increase 3.5% annually, based on the 12-month overall percent change in utilities in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.</p>			
Consulting Services	Admin-23	\$80,000	Flat*
<p>A flat rate of \$80,000 is projected for assistance on annual, ongoing, and new initiatives, projects, activities, and reporting requirements for 2015 to 2018.</p> <p>*Budget varies beginning in 2019 to reflect additional assistance required for the preparation of Plan Updates and inflation. See Appendix G for more details.</p>			
Professional Services	Admin-24	\$100,000	Flat*

Program	Program #	2016 Budget	Annual Escalator
<p>A flat rate of \$100,000 is projected from 2015 to 2017 for legal and other professional services the District may require throughout the planning period.</p> <p>*To reflect inflation, the budget is increased to \$105,000 annually from 2018 to 2022 and \$110,000 annually from 2023 to 2025.</p>			
Repairs Collection Center	Admin-25	\$5,000	Flat*
<p>A budget is reserved for repairs to the Collection Center which may include repairs to the roof, doors, HVAC system, electrical system, or other structural components. A flat rate of \$5,000 annually is projected from 2015 to 2018, 2020 to 2023, and 2025.</p> <p>*Every five years (in 2019 and 2024), \$15,000 is budgeted to provide adequate funding in the event that any major repairs are needed during the planning period.</p>			
Indirect Costs - Rent Admin Building	Admin-26	\$105,631	0.3%
<p>The District rents a portion of a County-owned building for its administrative offices. Rent is projected to increase 0.3% annually, based on the 12-month overall percent change in shelter in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.</p>			
Building Rent Collection Center	Admin-27	\$140,000	Flat
<p>In 2014, the District leased additional space for the Collection Center. The District expanded the materials accepted, resulting in an increase in storage space needs. This increase the rent approximately \$50,000 from 2013. Based on the District's lease, the annual rent is anticipated to remain flat throughout the planning period.</p>			
Record Center Fees	Admin-28	\$851	1.7%
<p>The District utilizes the Lorain County Records Center to store and process records. These fees are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.</p>			
Other Expense - Misc. Expenditures	Admin-29	\$6,151	1.7%

Program	Program #	2016 Budget	Annual Escalator
Miscellaneous expenditures are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Dues	Admin-30	\$1,551	1.7%
Dues for organizations to which the District is a member, such as the Association of Ohio Recyclers (AOR), the Organics Recycling Association of Ohio (ORAO), and the Solid Waste Association of North America (SWANA), are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
In-Kind - County Office Expenses	Admin-31	\$4,137	1.7%
The District provides in-kind services to other County departments in exchange for services. The cost of providing in-kind services such as recycling audits, recycled-content materials, etc., are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Insurance Expenses	Admin-32	\$11,966	4.3%
Automobile insurance and insurance on other District equipment is projected to increase 4.3% annually, based on the 12-month overall percent change in automotive insurance in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Travel/Conference Expenses	Admin-33	\$3,042	1.4%
The District's cost for transportation, lodging, and registration (when applicable) to conferences and meetings are projected to increase 1.4% annually, based on the 12-month overall percent change in travel expenses in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Staff Training	Admin-34	\$3,174	1.7%
The cost of safety training and continuing education for staff is projected to increase 1.7% annually, based on the 12-month overall percent change in education and communication services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Advertising/Printing	Admin-35	\$43,126	2.1%

Program	Program #	2016 Budget	Annual Escalator
The District advertises events and programs using printed media, television, and radio. The budget for printing is also used to cover costs associated with annual mailings and the production of brochures and flyers. Advertising/printing costs are projected to increase 2.1% annually, based on the 12-month overall percent change in printing (stationary supply) costs in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Computer Collection Center	Admin-36	\$740	1.7%
The budget for the Computer Collection Center provides funding to refurbish computer equipment. These costs are separate from the Electronics Recycling program (LC-5). Costs are projected to increase 1.7% annually, based on the 12-month overall percent change in education and communication services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			

Residential/Commercial Collection Programs

Residential/Commercial Collection Program expenditures include scrap tire collection and the bar/restaurant glass recycling program.

The following table includes the funding levels projected for each residential/commercial collection program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Scrap Tire Collection	LC-7	\$25,857	1.7%
This line item covers the cost of processing scrap tires. Costs are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Bar/Restaurant Glass Recycling	LC-36	\$100,000	Special
Annual expenditures are based on estimated costs to complete initiatives detailed in Section V and Table VI-5 of this <i>Plan Update</i> .			

Collection Center Programs

The District operates multiple programs from the Collection Center, including the HHW Collection program, the Electronics Recycling program, and the Fluorescent Bulb and Ballast Recycling program.

The following table includes the funding levels projected for each Collection Center program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Household Hazardous Waste (HHW) Collection	LC-4	\$85,456	1.7%
This line item covers the cost of processing HHW accepted at the Collection Center. Costs are projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Electronics Recycling	LC-5	\$0	N/A
This line item covers the cost of processing e-waste accepted at the Collection Center. The District negotiated an agreement beginning in 2015 with a company to accept, process, and recycle e-waste for no cost to the District. The current agreement is a three year contract. The District does not project expenses for this program throughout the rest of the planning period due to the increasing number of companies willing to accept electronics for no cost.			
Fluorescent Bulb and Ballast Recycling	LC-10	\$46,530	1.7%
This line item covers the cost of processing fluorescent bulbs and ballasts accepted at the Collection Center. Costs are projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			

Grants and Loans

The District operates a variety of grant and loan programs and will begin operating a number of new grant and loan programs during the first year of the planning period.

The following table includes the funding levels projected for each grant and loan program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Recycling Revolving Loan	LC-15	\$0	N/A
This program will continue to operate throughout the planning period. Due to the revolving nature of funds, no additional budget is projected.			
District Market Development Grants (Commissioner Grants)	LC-16	\$50,000	Flat
The District projects that the maximum expenditures for this program annually will remain flat at \$50,000.			
Community Incentive Grant	LC-17	\$250,000	Flat
The actual funding for this program is determined using a formula based on the District's annual revenue. It is anticipated that the budget for this program will be approximately \$250,000 annually.			
Yard Waste Incentive Grant	LC-35	\$200,000	Special
The Yard Waste Incentive Grant is a new program that will begin in 2016. Funding in 2016 and 2017 is set at \$200,000 to provide adequate funding to political subdivisions to begin or expand a yard waste collection program. As the program matures, funding decreases to \$150,000 in 2018 to reflect that a portion of political subdivisions will have applied in 2016 or 2017 for the initial capital to begin or expand a yard waste collection, leaving less political subdivisions that require a significant capital investment. A flat budget of \$75,000 is projected from 2019 to 2025. This level of funding is intended to assist political subdivisions with maintaining or improving their yard waste collection programs.			
Lorain County Recycling Scholarship	LC-37	\$10,000	Special
The Lorain County Recycling Scholarship is a new program that will begin in 2016. The District is contributing \$10,000 in 2016 and \$5,000 annually from 2017 to 2019 for this program. The District's total contribution of \$25,000, along with contributions from another party, will be managed as an endowment fund.			
Multi-Family Housing Unit Recycling Grant	LC-38.1	\$75,000	Flat 2016- 2020

Program	Program #	2016 Budget	Annual Escalator
The Multi-Family Housing Unit Recycling Grant program will begin in 2016. The budget for initiative LC-38.1 will fund a grant program for political subdivisions to implement a drop-off or recycling program that targets multi-family housing units. The budget is set at \$75,000 annually from 2016 through 2020.			
Multi-Family Housing Unit Recycling Grant	LC-38.2	\$35,000	Flat 2016-2020
The Multi-Family Housing Unit Recycling Grant program will begin in 2016. The budget for initiative LC-38.2 will fund a grant program for apartment or multi-family housing unit property managers to implement a recycling program for their multi-family housing units. The budget is set at \$35,000 annually from 2016 through to 2020.			

Environmental Clean-Up, Monitoring, and Enforcement

The District operates various environmental clean-up, monitoring, and enforcement programs, including the Volunteer Litter Collection program, the Open Dump and Scrap Tire Clean-Up program, the C.A.B. program, and Sheriff's Department Funding.

The following table includes the funding levels projected for each environmental clean-up, monitoring, and enforcement program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Volunteer Litter Collection (Lorain County Pride Day)	LC-18	\$5,559	1.7%
The budget for this program covers expenses for equipment and supplies for Lorain County's Pride Day, which includes litter collection bags, gloves, flats of flowers, and other clean-up/beautification supplies.			
Open Dump and Scrap Tire Clean-Up	LC-19	\$0	Flat
The District budgeted \$25,000 for this program in 2015. The District does not typically have annual open dump or scrap tire clean-up expenses. Unused funding from 2015 will carry over. No additional funding is projected.			
C.A.B. (Clean and Beautiful)	LC-21	\$1,000	Flat

Program	Program #	2016 Budget	Annual Escalator
The budget for this program covers expenses for equipment and supplies for the District's C.A.B. trailers, including rakes, litter collection bags, weed whackers, gloves, and other clean-up/beautification supplies. The budget also includes funding to maintain the actual trailers. A flat budget of \$1,000 is projected from 2015 to 2025.			
Sheriff's Department Funding	LC-22	\$126,761	1.7%
Budget covers the salaries of two environmental enforcement deputies. Expenditures are projected to increase 1.7% annually based on the Social Security Administration Cost-of-Living Adjustment (COLA) released October 22, 2014.			

Outreach, Education, and Technical Assistance

The District operates a multiple outreach, education, and technical assistance programs, including the Residential Recycling Education and Awareness program, the Consortium for Waste Services program, Zero Waste Planning, Waste Audits, the Commercial/Industrial Recycling Recognition program, and the Business Recycling Roundtable.

The following table includes the funding levels projected for each outreach, education, and technical assistance program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Yard Waste Management (OSU Agricultural Agent)	LC-3	\$17,400	Flat
A flat annual budget of \$17,400 is allocated to partially fund the salary of an Agricultural Agent at the OSU Extension office. This agent provided education and technical assistance to residents on composting and alternative yard waste management strategies.			
Residential Recycling Education and Awareness	LC-13	\$24,408	1.7%
Budget covers materials needed for contests, presentations, publications, displays, lending library, and other education and outreach activities. Budget is projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.			
Consortium for Waste Services	LC-30	\$25,000	N/A

Program	Program #	2016 Budget	Annual Escalator
An expenditure of \$25,000 is budgeted for this program to be used to reimburse the political subdivisions and the District for initial expenditures for the consortium. Additional funds are budgeted in 2018 to provide seed money for a second consortium or to assist political jurisdictions currently involved in the consortium to prepare for another joint bidding process when the current 5-year contracts expire.			
Zero Waste Planning	LC-31	\$25,000	Flat through 2020*
A budget of \$25,000 is allocated annually from 2015 to 2020 to assist political jurisdictions with zero waste planning and programming.			
*From 2021 to 2025, this program's budget is increased to \$30,000 annually to account for inflation.			
Waste Audits	LC-32	\$7,500	Flat
A budget of \$7,500 is allocated annually to provide waste audit services to businesses, industries, institutions, and organizations located in the District. The budget may be used to cover materials needed to complete the audit or assistance from a third-party that specializes in waste auditing services.			
Commercial/Industrial Recycling Recognition Program	LC-33	\$500	Flat
A budget of \$500 is allocated annually to operate this program. The budget may be used to advertise the program, develop a "Green Business Directory," purchase promotional items such as window decals for program participants, and distribute promotional items or information to program participants.			
Business Recycling Roundtable	LC-34	\$500	Flat
A budget of \$500 is allocated annually to operate this program. The budget may be used to advertise the program or cover the cost of hosting meetings.			
Energy from Waste Feasibility Assessment	LC-40	\$25,000	Flat (2016-2020)
The Energy from Waste Feasibility Assessment program will begin in 2016. The budget for LC-40 may be used to evaluate the feasibility of implementing waste management technologies locally that create energy while reducing waste. The District may also allocate funding for this program to be used as seed money for locally implementing an energy from waste (EFW) technology in the event that an organization with a			

Program	Program #	2016 Budget	Annual Escalator
legitimate technology and financing is identified. The budget is set at \$25,000 annually from 2016 through 2020.			

Other Programs

The District operates a variety of grant and loan programs and will begin operating a number of new grant and loan programs during the first year of the planning period.

The following table includes the funding levels projected for each grant and loan program in 2016, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Health Department Financial Assistance	LC-23	\$170,000	Flat
A budget of \$170,000 is allocated annually to provide financial assistance to the Lorain City Health Department and the Lorain County Health District for solid waste enforcement activities.			
County Assistance (Engineer)	LC-24	\$50,000	Flat
A budget of \$50,000 is allocated annually to the County Engineer to defray the costs of maintaining or repairing roads due to excess wear and tear from vehicles hauling solid waste.			
New Programs Funding (General Plan Implementation)	LC-26	\$75,000	Flat
A budget of \$75,000 is allocated annually to assist programs that required additional funding or to establish new programs. The District may provide funding for any existing or additional new programs (including existing grant programs) or organizations (including non-profits) for projects or grants that utilize recycled materials.			
Disaster Debris Management	LC-27	\$25,000	Flat
A budget of \$25,000 is allocated annually in order to build up sufficient funding to assist with debris management activities in the event of a serious disaster debris event. The District will make every effort to be reimbursed by FEMA for expenses related to debris clean-up and disposal from disaster events.			

Program	Program #	2016 Budget	Annual Escalator
Third Party Financial Audit	LC-28	\$0	Special
Funding is projected every other year. The cost to complete an audit is projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014. Since the audit is only completed every other year, expenditures are actually projected to increase 3.4% from the previous audit cycle.			

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

Solid waste districts may collect fees to fund the implementation of their plans as well as other purposes. Solid waste fees such as disposal fees and generation fees must be expended exclusively for the following ten purposes (ORC 3734.57 (G)):

1 •Preparation and monitoring of the solid waste management plan	2 • Implementation of the approved solid waste management plan
3 •Providing financial assistance to boards of health within the district, for solid waste enforcement	4 •Providing financial assistance to defray the costs of maintaining roads and other services resulting from the location and operation of a solid waste facility
5 •Providing financial assistance to boards of health for collecting and analyzing samples from water wells adjacent to solid waste facilities	6 •Developing and implementing a program for inspecting out-of-state solid waste
7 •Providing financial assistance to boards of health or to local law enforcement agencies having jurisdiction within the district for anti-littering enforcement	8 •Providing financial assistance to boards of health for employees to participate in Ohio EPA's training and certification program for solid waste operators and facility inspectors
9 •Providing financial assistance to municipalities and townships to defray their costs of maintaining roads and other services resulting from the location and operation of solid waste facilities	10 •Payment of any expenses that are agreed to awarded or ordered to be paid under section 3734.35 of the Revised Code and any administrative costs incurred pursuant to that section

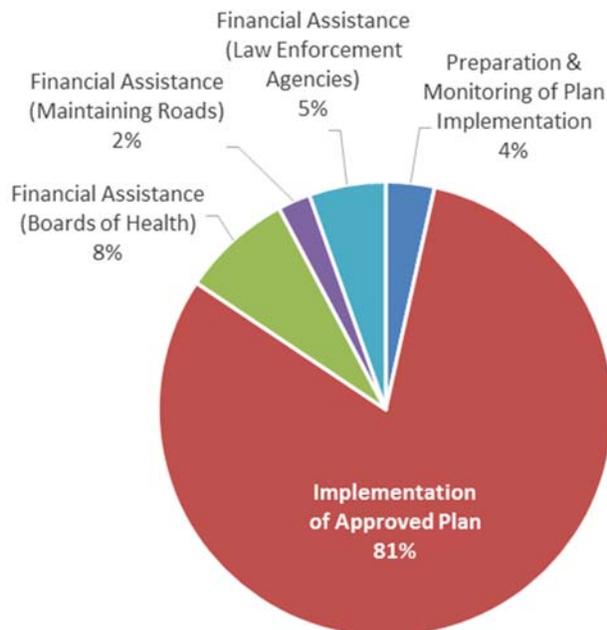
Table VIII-6, "Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573", presents the District's projected allocation among the ten allowable uses.

The District's budget falls into five categories:



The following figure presents the allocation of funding among the allowable uses during the reference year:

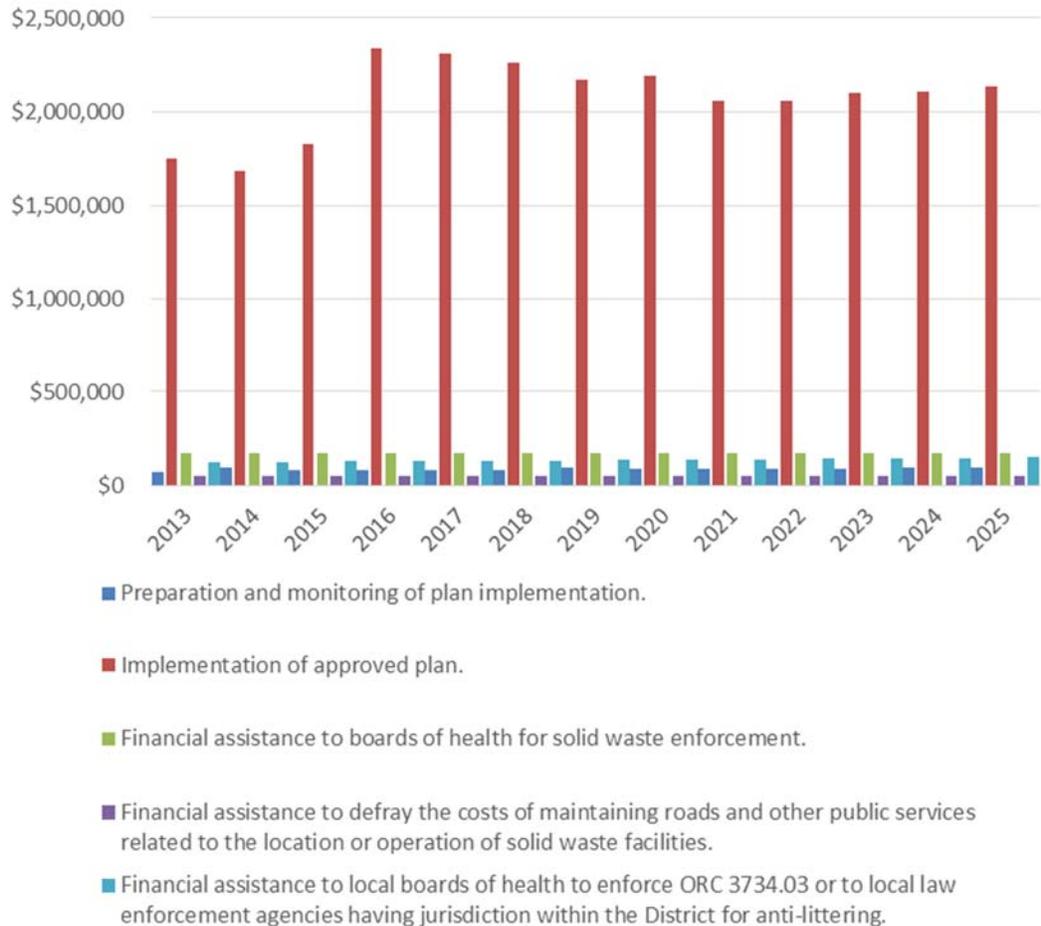
2013 Allocation of Funding



In 2013, 81% of the District’s expenditures were allocated to implementing the approved Plan. The remaining expenditures were allocated to providing financial assistance to Boards of Health for solid waste enforcement (8%), providing financial assistance to local law enforcement agencies (5%), preparation and monitoring implementation of the Plan (4%), and providing financial assistance to the County Engineer for maintaining roads (2%).

The following table presents the allocation of the District's budget for each allowable use for each year throughout the planning period:

2013-2025 District Budget Allocation by Allowable Use



Recipient Reports

The District allocates funding to political jurisdictions, county departments, health districts, and other entities. The District requires a report from recipients either quarterly, annually, or by an alternative appropriate and reasonable time frame. The purpose of the report is to ensure the accountability of funding provided by the District meets the intent of Ohio law and Ohio EPA regulations. The District develops guidelines and formats to assist recipients in reporting to the District.

The District Director or the County Commissioners may request additional information from any recipient of District funds to explain the use of District funding in more detail. Funding may be withheld if reports are deemed incomplete and do not meet District reporting guidelines. The District Director will review reports within 30 days of receiving them. If the Director

or the County Commissioners determine the District will need additional information, they will send the recipient a letter clearly stating the information the District requires and a reasonable deadline for responding before processing any additional funding requests. If after receiving the information from the recipient the District Director or the County Commissioners finds the response inadequate, they will make a recommendation to withhold either additional funding for that fiscal year or future years due to the incomplete report. The Director's recommendation will be brought to the County Commissioners for a vote within 45 days. The recipient will have an opportunity to present their position either in person or writing. The County Commissioners will make the final decision whether to continue or suspend funding for the recipient.

Following the approval of this *Plan Update*, the District will also begin requiring some recipients, such as the Boards of Health and the County Engineer, to prepare and submit to the District a scope of services at the beginning of each year outlining the activities and work to be completed using District funding.

The District Director will review the proposed scope of services within 30 days of receiving them. If the Director or the County Commissioners determine the District will need additional information or a revision to the scope of services, they will send the recipient a letter clearly stating the information or modifications the District requires and a reasonable deadline for responding before processing any additional funding requests. If after receiving the information from the recipient the District Director or the County Commissioners finds the response inadequate, they will make a recommendation to withhold either additional funding for that fiscal year or future years due. The Director's recommendation will be brought to the County Commissioners for a vote within 45 days. The recipient will have an opportunity to present their position either in person or in writing. The County Commissioners will make the final decision whether to continue or suspend funding for the recipient.

D. Contingent Funding

The District, Policy Committee, and County Commissioners do not consider funding to be an issue of concern during this planning period. The Policy Committee would consider establishing a generation fee or other funding options if the District's revenues and/or expenses were creating budgetary shortfalls in accordance with the guidelines in the material change of circumstances.

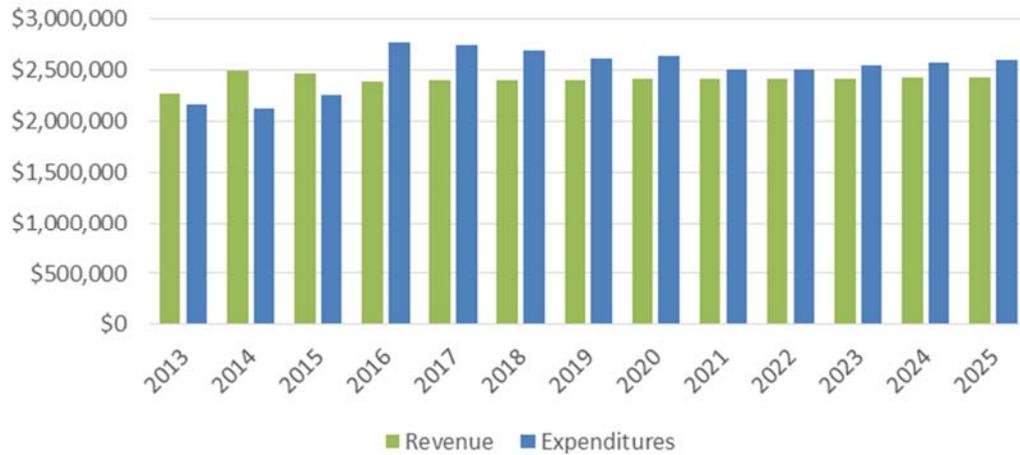
Table VIII-7 contains the anticipated generation fee that would be required to sustain the estimated expenditures listed in Table VIII-5 if all disposal fee revenue were to cease. Before this contingency would be implemented, the

District would re-evaluate the estimated expenditures in Table VIII-5 to determine the minimum annual budget to sustain the District’s core operations. Additionally, other methods of financing would also be considered including contracts with haulers, landfills and transfer facilities servicing the District.

E. Summary of Costs and Revenues

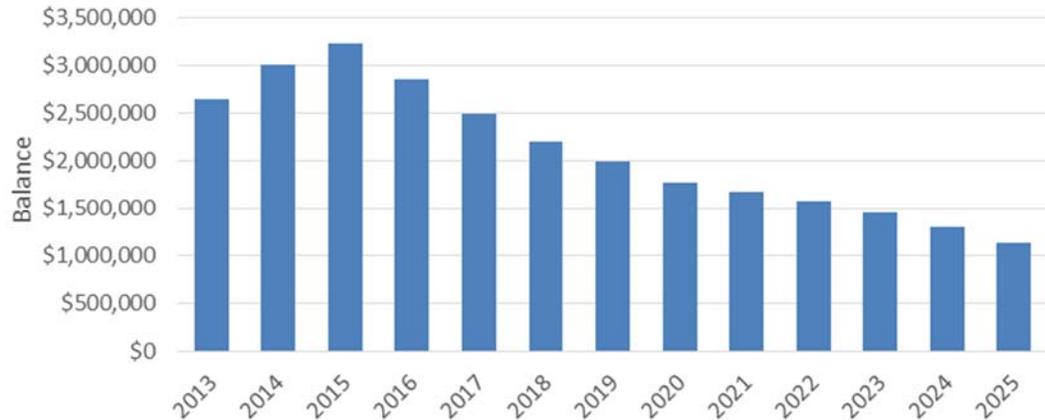
Table VIII-8, “Summary of District Revenues and Expenditures”, includes the total revenue and annual costs for each program from the reference year through the end of the planning period. Revenue is projected to increase from \$2.39 million in 2016 to \$2.42 million in 2025. Expenditures in 2016 are projected to be \$2.77 million. Throughout the planning period, expenditures are projected to range from \$2.50 to \$2.77 million annually. The following figure presents the District’s actual and projected revenue and expenditures from 2013 to 2025.

2013 – 2025 District Revenue and Expenditures



The District is projected to begin the planning period with a carryover balance of \$3.23 million and conclude the planning period with a balance of approximately \$1.13 million. Each year of the planning period is projected to have ample funding for each of the programs. The following figure presents the District’s ending balance from 2013 to 2025.

2013 – 2025 District Fund Balance



The District and Board of Commissioners reserve the right to move funds between programs, facilities and activities as costs and revenues may increase or decrease during the planning period. Nothing contained in these budget projections should be construed as a binding commitment by the District to spend a specific amount of money on a particular strategy, facility, program and/or activity. The Board, with the advice and assistance of the District Director, will review and revise the budget as needed to implement planned strategies, facilities, programs and/or activities as effectively as possible with the funds available. Unanticipated, excess revenues may be applied, to the extent that is practical and allowable, to other *Plan Update* implementation activities. The District reserves the right to revise the budget and reallocate funds as programs change or as otherwise determined to be in the best interest of the District. The District will follow requirements of Ohio laws and regulations when implementing this provision.

Any transfer of funding between line items will not constitute a material change of circumstances or require a ratification of the budget unless deemed necessary by the Board of Commissioners. The Board of Commissioners will determine if a material change in circumstances has occurred and will refer to Section I for those requirements and guidelines.

**Table VIII-1
District Disposal Fee Schedule and Revenues Generated**

Year	Fee Schedule (\$/ton)			Tons Disposed in the District			Total District Fee Revenue
	In-District	Out-of-District	Out-of-State	In-District	Out-of-District	Out-of-State	
2013	\$2.00	\$2.00	\$2.00	238,639	662,226	0	\$1,801,730
2014	\$2.00	\$2.00	\$2.00	241,737	698,967	0	\$1,881,408
2015	\$2.00	\$2.00	\$2.00	247,553	702,558	0	\$1,900,222
2016	\$2.00	\$2.00	\$2.00	245,547	714,065	0	\$1,919,224
2017	\$2.00	\$2.00	\$2.00	244,538	716,034	0	\$1,921,143
2018	\$2.00	\$2.00	\$2.00	244,707	716,825	0	\$1,923,064
2019	\$2.00	\$2.00	\$2.00	245,794	716,700	0	\$1,924,987
2020	\$2.00	\$2.00	\$2.00	246,401	717,055	0	\$1,926,912
2021	\$2.00	\$2.00	\$2.00	247,458	716,961	0	\$1,928,839
2022	\$2.00	\$2.00	\$2.00	248,462	716,922	0	\$1,930,768
2023	\$2.00	\$2.00	\$2.00	249,397	716,953	0	\$1,932,699
2024	\$2.00	\$2.00	\$2.00	250,244	717,072	0	\$1,934,631
2025	\$2.00	\$2.00	\$2.00	250,466	717,817	0	\$1,936,566

Source(s) of information: Quarterly Fee Reports

**Table VIII-2
Generation Fee Schedule and Revenues**

Year	Base Generation Fee	Tons of District Waste to be Disposed	Total Generation Fee Revenue
2013	\$0.00	262,387	\$0.00
2014	\$0.00	268,196	\$0.00
2015	\$0.00	270,035	\$0.00
2016	\$0.00	267,823	\$0.00
2017	\$0.00	266,672	\$0.00
2018	\$0.00	266,778	\$0.00
2019	\$0.00	267,863	\$0.00
2020	\$0.00	268,438	\$0.00
2021	\$0.00	269,492	\$0.00
2022	\$0.00	270,491	\$0.00
2023	\$0.00	271,417	\$0.00
2024	\$0.00	272,250	\$0.00
2025	\$0.00	272,419	\$0.00

Source(s) of information: Tons to be disposed - Tables VII-2 and VII-3

**Table VIII-3
Summary of Revenue Generated and Mechanisms Used**

Year	Type of Revenue Mechanism and Amount Used							Total Revenue Generated
	Disposal Fees	Contract Fees	Reimbursements	Recycling Revenue	Waiver Fees	Grants		
2013	\$1,801,730	\$397,336	\$3,532	\$3,527.55	\$25,845	\$28,750	\$2,260,720	
2014	\$1,881,408	\$419,380	\$888	\$9,687.44	\$51,813	\$123,900	\$2,487,076	
2015	\$1,900,222	\$421,535	-	\$5,000.00	\$32,135	\$107,400	\$2,466,291	
2016	\$1,919,224	\$428,439	-	\$5,000.00	\$34,102	\$0	\$2,386,765	
2017	\$1,921,143	\$429,620	-	\$5,000.00	\$36,070	\$0	\$2,391,834	
2018	\$1,923,064	\$430,095	-	\$5,000.00	\$38,038	\$0	\$2,396,198	
2019	\$1,924,987	\$430,020	-	\$5,000.00	\$40,006	\$0	\$2,400,013	
2020	\$1,926,912	\$430,233	-	\$5,000.00	\$41,974	\$0	\$2,404,119	
2021	\$1,928,839	\$430,177	-	\$5,000.00	\$43,941	\$0	\$2,407,957	
2022	\$1,930,768	\$430,153	-	\$5,000.00	\$45,909	\$0	\$2,411,831	
2023	\$1,932,699	\$430,172	-	\$5,000.00	\$47,877	\$0	\$2,415,748	
2024	\$1,934,631	\$430,243	-	\$5,000.00	\$49,845	\$0	\$2,419,720	
2025	\$1,936,566	\$430,690	-	\$5,000.00	\$51,813	\$0	\$2,424,069	

Note: Disposal Fees match Quarterly Fee Reports, which are calculated using cash-based accounting. Totals do not match tonnage in Table VIII-1 which was calculated on an accrual basis.

Source(s) of information:

- 2013 - Quarterly Fee Reports
- 2013-2014 Reimbursements - Quarterly Fee Reports
- 2014-2025 Disposal Fees and Contract Fees - Calculated from tonnage in Table VIII-1
- 2014 Recycling Revenue - District budget and accounting records
- 2015-2025 Recycling Revenue - Conservative estimate based on average from 2013-2014
- Waiver Fees - 2015 is an average of 2013-2014. Fees from 2015-2025 are calculated to increase at a steady rate, ending in 2025 with the 2014 revenue level.
- 2012-2013 State or Federal Grants - Based on District records, which differ from Quarterly Fee Reports. Explanatory tables included in Section VIII.

**Table VIII-4
Anticipated Loans Secured by the District**

Year	Loans Obtained by the District		Interest Rate	Length of Loan	Annual Debt Service
	Lending Institution	Loan Amount			
2013	N/A	0	N/A	0	0
2014	N/A	0	N/A	0	0
2015	N/A	0	N/A	0	0
2016	N/A	0	N/A	0	0
2017	N/A	0	N/A	0	0
2018	N/A	0	N/A	0	0
2019	N/A	0	N/A	0	0
2020	N/A	0	N/A	0	0
2021	N/A	0	N/A	0	0
2022	N/A	0	N/A	0	0
2023	N/A	0	N/A	0	0
2024	N/A	0	N/A	0	0
2025	N/A	0	N/A	0	0

Table VIII-5
Estimated Costs for Plan Implementation

Description	Program #	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
District Administration Budget														
Payroll Expenditures														
Full-Time Employee Salaries (Collection Center)	Admin-1	\$286,530	\$298,034	\$266,137	\$270,661	\$275,262	\$279,942	\$284,701	\$289,541	\$294,463	\$299,469	\$304,560	\$309,737	\$315,003
Part-Time Employee Salaries (Collection Center)	Admin-2	\$68,792	\$81,395	\$87,579	\$93,868	\$95,464	\$97,087	\$98,737	\$100,416	\$102,123	\$103,859	\$105,624	\$107,420	\$109,246
PERS	Admin-3	\$73,096	\$67,742	\$63,032	\$64,959	\$66,063	\$67,186	\$68,329	\$69,490	\$70,672	\$71,873	\$73,095	\$74,337	\$75,601
Medicare	Admin-4	\$6,594	\$6,993	\$6,508	\$6,707	\$6,821	\$6,937	\$7,055	\$7,175	\$7,297	\$7,421	\$7,547	\$7,676	\$7,806
Medical Insurance	Admin-5	\$125,031	\$125,726	\$103,501	\$105,261	\$107,050	\$108,870	\$110,721	\$112,603	\$114,517	\$116,464	\$118,444	\$120,457	\$122,505
Life Insurance	Admin-6	\$594	\$545	\$497	\$502	\$507	\$512	\$517	\$522	\$527	\$533	\$538	\$543	\$549
Workers Compensation	Admin-7	\$9,447	\$9,973	\$9,328	\$9,580	\$9,743	\$9,909	\$10,077	\$10,248	\$10,423	\$10,600	\$10,780	\$10,963	\$11,150
Unemployment Insurance	Admin-8	\$219	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750
Subtotal		\$570,302	\$591,158	\$537,332	\$552,288	\$561,661	\$571,193	\$580,886	\$590,745	\$600,771	\$610,968	\$621,338	\$631,884	\$642,610
Administrative/District Facilities, Supplies, and Support Services														
Supplies	Admin-9	\$44,282	\$44,360	\$45,217	\$46,088	\$46,975	\$47,876	\$48,793	\$49,725	\$50,673	\$51,638	\$52,618	\$53,616	\$54,630
County Gas	Admin-10	\$1,757	\$2,000	\$1,928	\$1,961	\$1,994	\$2,028	\$2,062	\$2,098	\$2,133	\$2,169	\$2,206	\$2,244	\$2,282
Postage	Admin-11	\$1,256	\$2,336	\$2,432	\$2,532	\$2,636	\$2,744	\$2,856	\$2,973	\$3,095	\$3,222	\$3,354	\$3,492	\$3,635
Computer Applications (Re-TRAC Connect)	Admin-12	\$6,042	\$4,500	\$4,551	\$4,603	\$4,656	\$4,709	\$4,762	\$4,816	\$4,871	\$4,927	\$4,983	\$5,040	\$5,097
Equipment	Admin-13	\$41,591	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Equipment Lease	Admin-14	\$331	\$357	\$363	\$369	\$376	\$382	\$388	\$395	\$402	\$409	\$415	\$423	\$430
Building Maintenance Collection Center	Admin-15	\$538	\$1,750	\$1,780	\$1,810	\$1,841	\$1,872	\$1,904	\$1,936	\$1,969	\$2,003	\$2,037	\$2,071	\$2,107
Computer System Equipment	Admin-16	\$2,170	\$3,690	\$3,733	\$3,775	\$3,818	\$3,862	\$3,905	\$3,950	\$3,995	\$4,040	\$4,086	\$4,133	\$4,180
Vehicles	Admin-17	\$29,202	\$0	\$0	\$30,000	\$0	\$35,000	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0
Vehicle Expense	Admin-18	\$2,681	\$3,509	\$3,565	\$3,622	\$3,680	\$3,739	\$3,799	\$3,859	\$3,921	\$3,984	\$4,048	\$4,112	\$4,178
Furniture/Fixtures Collection Center and Admin	Admin-19	\$6,877	\$3,591	\$3,652	\$3,714	\$3,777	\$3,841	\$3,907	\$3,973	\$4,041	\$4,109	\$4,179	\$4,250	\$4,323
Capital Improvements	Admin-20	\$19,086	\$8,400	\$8,543	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000
Contract Services-Copier etc.	Admin-21	\$22,026	\$4,347	\$4,421	\$4,496	\$4,572	\$4,650	\$4,729	\$4,809	\$4,891	\$4,974	\$5,059	\$5,145	\$5,232
Utilities	Admin-22	\$4,526	\$5,548	\$5,743	\$5,944	\$6,152	\$6,367	\$6,590	\$6,820	\$7,059	\$7,306	\$7,562	\$7,826	\$8,100
Consulting Services	Admin-23	\$74,737	\$93,007	\$80,000	\$80,000	\$80,000	\$80,000	\$80,000	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000	\$90,000
Professional Services	Admin-24	\$94,623	\$100,000	\$100,000	\$100,000	\$100,000	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$110,000	\$110,000	\$110,000
Repairs Collection Center	Admin-25	\$3,906	\$14,250	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Indirect Costs - Rent Admin Building	Admin-26	\$86,295	\$105,000	\$105,315	\$105,631	\$105,948	\$106,266	\$106,584	\$106,904	\$107,225	\$107,547	\$107,869	\$108,193	\$108,517
Building Rent Collection Center	Admin-27	\$89,350	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000
Record Center Fees	Admin-28	\$831	\$823	\$837	\$851	\$865	\$880	\$895	\$910	\$926	\$941	\$957	\$974	\$990
Other Expense - Misc. Expenditures	Admin-29	\$7,648	\$5,948	\$6,049	\$6,151	\$6,256	\$6,362	\$6,471	\$6,581	\$6,692	\$6,806	\$6,922	\$7,040	\$7,159
Dues	Admin-30	\$1,195	\$1,500	\$1,526	\$1,551	\$1,578	\$1,605	\$1,632	\$1,660	\$1,688	\$1,717	\$1,746	\$1,775	\$1,806
In-Kind - County Office Expenses	Admin-31	\$0	\$4,000	\$4,068	\$4,137	\$4,207	\$4,279	\$4,352	\$4,426	\$4,501	\$4,577	\$4,655	\$4,734	\$4,815
Insurance Expenses	Admin-32	\$10,938	\$11,000	\$11,473	\$11,966	\$12,481	\$13,018	\$13,577	\$14,161	\$14,770	\$15,405	\$16,068	\$16,759	\$17,479
Travel/Conference Expenses	Admin-33	\$1,413	\$1,500	\$3,000	\$3,174	\$3,362	\$3,563	\$3,776	\$3,996	\$4,231	\$4,471	\$4,716	\$4,966	\$5,221
Staff Training	Admin-34	\$4,617	\$3,069	\$3,121	\$3,174	\$3,228	\$3,283	\$3,339	\$3,396	\$3,453	\$3,512	\$3,572	\$3,633	\$3,694
Advertising/Printing	Admin-35	\$31,963	\$30,723	\$42,239	\$43,126	\$44,032	\$44,956	\$45,900	\$46,864	\$47,848	\$48,853	\$49,879	\$50,927	\$51,996
Computer Collection Center	Admin-36	\$603	\$715	\$727	\$740	\$752	\$765	\$778	\$791	\$805	\$818	\$832	\$846	\$861
Subtotal		\$590,482	\$605,922	\$599,280	\$759,284	\$732,907	\$776,610	\$765,395	\$794,264	\$758,220	\$762,265	\$771,401	\$795,632	\$784,959

Table VIII-5 (continued)
Estimated Costs for Plan Implementation

Description	Program #	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Residential/Commercial Collection Programs														
Scrap Tire Collection	LC-7	\$27,340	\$25,000	\$25,425	\$25,857	\$26,297	\$26,744	\$27,198	\$27,661	\$28,131	\$28,609	\$29,096	\$29,590	\$30,093
Bar/Restaurant Glass Recycling	LC-36	\$0	\$0	\$100,000	\$100,000	\$100,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Subtotal		\$27,340	\$25,000	\$125,425	\$125,857	\$126,297	\$56,744	\$57,198	\$57,661	\$58,131	\$58,609	\$59,096	\$59,590	\$60,093
Collection Center Programs														
Household Hazardous Waste (HHW) Collection (Collection Center)	LC-4	\$129,834	\$82,623	\$84,027	\$85,456	\$86,909	\$88,386	\$89,889	\$91,417	\$92,971	\$94,551	\$96,159	\$97,793	\$99,456
Electronics Recycling (Collection Center)	LC-5	\$47,773	\$47,390	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fluorescent Bulb and Ballast Recycling (Collection Center)	LC-10	\$44,235	\$44,987	\$45,752	\$46,530	\$47,321	\$48,125	\$48,943	\$49,775	\$50,622	\$51,482	\$52,357	\$53,247	\$54,153
Subtotal		\$221,842	\$175,000	\$129,779	\$131,986	\$134,229	\$136,511	\$138,832	\$141,192	\$143,592	\$146,034	\$148,516	\$151,041	\$153,609
Grants and Loans														
Recycling Revolving Loan	LC-15	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
District Market Development Grants (Commissioner Grants)	LC-16	\$0	\$40,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Community Incentive Grant	LC-17	\$328,859	\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Yard Waste Incentive Grant	LC-35	\$0	\$0	\$0	\$200,000	\$200,000	\$150,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Lorain County Recycling Scholarship	LC-37	\$0	\$0	\$0	\$10,000	\$5,000	\$5,000	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0
Multi-Family Housing Unit Recycling	LC-38.1	\$0	\$0	\$0	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Grant	LC-38.2	\$0	\$0	\$0	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000
Subtotal		\$328,859	\$290,000	\$300,000	\$620,000	\$615,000	\$565,000	\$490,000	\$485,000	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000
Environmental Clean-Up, Monitoring, and Enforcement														
Volunteer Litter Collection (Lorain County Pride Day)	LC-18	\$5,285	\$5,375	\$5,466	\$5,559	\$5,654	\$5,750	\$5,848	\$5,947	\$6,048	\$6,151	\$6,256	\$6,362	\$6,470
Open Dump and Scrap Tire Clean-Up	LC-19	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C.A.B. (Clean and Beautiful)	LC-21	\$701	\$675	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Sheriff's Department Funding	LC-22	\$117,815	\$117,555	\$124,642	\$126,761	\$128,916	\$131,107	\$133,336	\$135,603	\$137,908	\$140,253	\$142,637	\$145,062	\$147,528
Subtotal		\$123,801	\$123,605	\$156,108	\$133,320	\$135,570	\$137,857	\$140,184	\$142,550	\$144,956	\$147,404	\$149,892	\$152,424	\$154,998
Outreach, Education, and Technical Assistance														
Yard Waste Management (OSU Agricultural Agent)	LC-3	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400
Residential Recycling Education and Awareness	LC-13	\$22,027	\$18,000	\$24,000	\$24,408	\$24,823	\$25,245	\$25,674	\$26,111	\$26,554	\$27,006	\$27,465	\$27,932	\$28,407
Consortium for Waste Services	LC-30	\$21,000	\$0	\$0	\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Zero Waste Planning	LC-31	\$20,000	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Waste Audits	LC-32	\$0	\$0	\$0	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
Commercial/Industrial Recycling Recognition Program	LC-33	\$0	\$0	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Business Recycling Roundtable	LC-34	\$0	\$0	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Energy from Waste Feasibility Assessment	LC-40	\$0	\$0	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$0	\$0	\$0	\$0	\$0
Subtotal		\$80,427	\$35,400	\$67,400	\$125,308	\$100,723	\$126,145	\$101,574	\$102,011	\$82,454	\$82,906	\$83,365	\$83,832	\$84,307
Other Programs														
Health Department Financial Assistance	LC-23	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000
County Assistance (Engineer)	LC-24	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
New Programs Funding (General Plan Implementation)	LC-26	\$0	\$2,383	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Disaster Debris Management	LC-27	\$0	\$46,260	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Third Party Financial Audit	LC-28	\$0	\$0	\$15,255	\$0	\$15,778	\$0	\$16,319	\$0	\$16,879	\$0	\$17,457	\$0	\$18,056
Subtotal		\$220,000	\$268,643	\$335,255	\$320,000	\$335,879	\$320,000	\$336,319	\$320,000	\$336,879	\$320,000	\$337,457	\$320,000	\$338,056
Totals		\$2,163,053	\$2,114,729	\$2,250,580	\$2,768,043	\$2,742,165	\$2,680,060	\$2,610,388	\$2,633,423	\$2,500,005	\$2,503,165	\$2,546,066	\$2,569,403	\$2,593,631

**Table VIII-7
Contingent Funding Sources**

Year	Amount of Contingent Funding for Each Source		Total
	Generation Fee Revenue	Total Tons	
2013	\$9.00	214,529	\$1,930,765
2014	\$9.00	220,912	\$1,988,207
2015	\$9.00	223,319	\$2,009,872
2016	\$9.00	221,667	\$1,995,002
2017	\$9.00	221,071	\$1,989,635
2018	\$9.00	221,724	\$1,995,512
2019	\$9.00	223,349	\$2,010,143
2020	\$9.00	224,458	\$2,020,122
2021	\$9.00	226,040	\$2,034,363
2022	\$9.00	227,560	\$2,048,042
2023	\$9.00	229,001	\$2,061,012
2024	\$9.00	230,344	\$2,073,095
2025	\$9.00	231,015	\$2,079,136

Note: The generation fee can be adjusted up or down to meet contingent needs.

Table VIII-8
Summary of District Revenues and Expenditures

Description	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Beginning Balance	\$2,546,673	\$2,644,340	\$3,016,688	\$3,232,398	\$2,851,121	\$2,500,790	\$2,206,927	\$1,996,551	\$1,767,246	\$1,675,199	\$1,583,844	\$1,453,526	\$1,303,843
Revenues													
Disposal Fees	\$1,801,730	\$1,881,408	\$1,900,222	\$1,919,224	\$1,921,143	\$1,923,064	\$1,924,987	\$1,926,912	\$1,928,839	\$1,930,768	\$1,932,699	\$1,934,631	\$1,936,566
Contract Fees	\$397,336	\$419,380	\$421,535	\$428,439	\$429,620	\$430,095	\$430,020	\$430,233	\$430,177	\$430,153	\$430,172	\$430,243	\$430,690
Reimbursements	\$3,532	\$888	-	-	-	-	-	-	-	-	-	-	-
Recycling Revenue	\$3,528	\$9,687	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Waste Fees	\$25,845	\$1,813	\$32,135	\$34,102	\$36,070	\$38,038	\$40,006	\$41,974	\$43,942	\$45,909	\$47,877	\$49,845	\$51,813
State or Federal Grants	\$28,750	\$123,900	\$107,400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Revenue	\$2,260,720	\$2,487,076	\$2,466,291	\$2,366,765	\$2,391,834	\$2,396,198	\$2,400,013	\$2,404,119	\$2,407,957	\$2,411,831	\$2,415,748	\$2,419,720	\$2,424,069
Program #													
Expenditures													
Payroll Expenditures													
Admin-1	\$286,530	\$298,034	\$266,137	\$270,661	\$275,262	\$279,942	\$284,701	\$289,541	\$294,463	\$299,469	\$304,560	\$309,737	\$315,003
Admin-2	\$68,792	\$81,395	\$87,579	\$93,868	\$95,464	\$97,087	\$98,737	\$100,416	\$102,123	\$103,859	\$105,624	\$107,420	\$109,246
Admin-3	\$73,096	\$67,742	\$63,032	\$64,959	\$66,063	\$67,186	\$68,329	\$69,490	\$70,672	\$71,873	\$73,095	\$74,337	\$75,601
Admin-4	\$6,594	\$6,993	\$6,508	\$6,707	\$6,821	\$6,937	\$7,055	\$7,175	\$7,297	\$7,421	\$7,547	\$7,676	\$7,806
Admin-5	\$125,031	\$125,726	\$103,501	\$105,261	\$107,050	\$108,870	\$110,721	\$112,603	\$114,517	\$116,464	\$118,444	\$120,457	\$122,505
Admin-6	\$594	\$645	\$497	\$502	\$507	\$512	\$517	\$522	\$527	\$533	\$538	\$543	\$549
Admin-7	\$9,447	\$9,973	\$9,328	\$9,580	\$9,743	\$9,909	\$10,077	\$10,248	\$10,423	\$10,600	\$10,780	\$10,963	\$11,150
Admin-8	\$219	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$750
Subtotal	\$570,302	\$591,158	\$537,332	\$552,288	\$561,661	\$571,193	\$580,886	\$590,745	\$600,771	\$610,968	\$621,338	\$631,884	\$642,610
Administrative/District Facilities, Supplies, and Support Services													
Supplies	\$44,282	\$44,360	\$45,217	\$46,088	\$46,975	\$47,876	\$48,793	\$49,725	\$50,673	\$51,638	\$52,618	\$53,616	\$54,630
County Gas	\$1,757	\$2,000	\$1,928	\$1,961	\$1,994	\$2,028	\$2,062	\$2,098	\$2,133	\$2,169	\$2,206	\$2,244	\$2,282
Postage	\$1,256	\$2,336	\$2,432	\$2,532	\$2,636	\$2,744	\$2,856	\$2,973	\$3,095	\$3,222	\$3,354	\$3,492	\$3,635
Computer Applications (Re-TRAC Connect)	\$6,042	\$4,500	\$4,551	\$4,603	\$4,656	\$4,709	\$4,762	\$4,816	\$4,871	\$4,927	\$4,983	\$5,040	\$5,097
Admin-13	\$41,591	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000
Admin-14	\$331	\$357	\$363	\$369	\$376	\$382	\$388	\$395	\$402	\$409	\$415	\$423	\$430
Admin-15	\$538	\$1,750	\$1,780	\$1,810	\$1,841	\$1,872	\$1,904	\$1,936	\$1,969	\$2,003	\$2,037	\$2,071	\$2,107
Admin-16	\$2,170	\$3,690	\$3,733	\$3,775	\$3,818	\$3,862	\$3,905	\$3,950	\$3,995	\$4,040	\$4,086	\$4,133	\$4,180
Vehicles	\$29,202	\$0	\$0	\$30,000	\$0	\$35,000	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0
Vehicle Expense	\$2,681	\$3,509	\$3,565	\$3,622	\$3,680	\$3,739	\$3,799	\$3,859	\$3,921	\$3,984	\$4,048	\$4,112	\$4,178
Furniture/Fixtures Collection Center and Admin	\$6,877	\$3,591	\$3,652	\$3,714	\$3,777	\$3,841	\$3,907	\$3,973	\$4,041	\$4,109	\$4,179	\$4,250	\$4,323
Admin-20	\$19,086	\$8,400	\$8,543	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000	\$135,000
Admin-21	\$22,026	\$4,347	\$4,421	\$4,496	\$4,572	\$4,650	\$4,729	\$4,809	\$4,891	\$4,974	\$5,059	\$5,145	\$5,232
Admin-22	\$4,526	\$5,548	\$5,743	\$5,944	\$6,152	\$6,367	\$6,590	\$6,820	\$7,059	\$7,306	\$7,562	\$7,826	\$8,100
Admin-23	\$74,737	\$93,007	\$90,000	\$80,000	\$90,000	\$80,000	\$90,000	\$85,000	\$85,000	\$85,000	\$85,000	\$85,000	\$90,000
Admin-24	\$94,623	\$100,000	\$100,000	\$100,000	\$100,000	\$105,000	\$105,000	\$105,000	\$105,000	\$105,000	\$110,000	\$110,000	\$110,000
Admin-25	\$3,906	\$14,250	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Admin-26	\$86,295	\$105,631	\$106,315	\$105,631	\$105,948	\$106,286	\$106,584	\$106,904	\$107,225	\$107,547	\$107,869	\$108,193	\$108,517
Admin-27	\$89,350	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000	\$140,000
Admin-28	\$831	\$823	\$837	\$851	\$865	\$880	\$895	\$910	\$926	\$941	\$957	\$974	\$990
Admin-29	\$7,648	\$5,948	\$6,049	\$6,151	\$6,256	\$6,362	\$6,471	\$6,581	\$6,692	\$6,806	\$6,922	\$7,040	\$7,159
Admin-30	\$1,195	\$1,500	\$1,526	\$1,551	\$1,578	\$1,605	\$1,632	\$1,660	\$1,688	\$1,717	\$1,746	\$1,775	\$1,806
Admin-31	\$0	\$4,000	\$4,068	\$4,137	\$4,207	\$4,279	\$4,352	\$4,426	\$4,501	\$4,577	\$4,655	\$4,734	\$4,815
Admin-32	\$10,938	\$11,000	\$11,073	\$11,146	\$11,221	\$11,297	\$11,374	\$11,452	\$11,531	\$11,611	\$11,692	\$11,774	\$11,857
Admin-33	\$1,413	\$1,500	\$3,000	\$3,042	\$3,085	\$3,128	\$3,172	\$3,216	\$3,261	\$3,307	\$3,353	\$3,400	\$3,447
Admin-34	\$4,617	\$3,069	\$3,121	\$3,174	\$3,228	\$3,283	\$3,339	\$3,396	\$3,453	\$3,512	\$3,572	\$3,633	\$3,694
Admin-35	\$31,963	\$30,723	\$42,239	\$43,126	\$44,032	\$44,956	\$45,900	\$46,864	\$47,848	\$48,853	\$49,879	\$50,927	\$51,996
Admin-36	\$603	\$715	\$727	\$740	\$752	\$765	\$778	\$791	\$805	\$818	\$832	\$846	\$861
Subtotal	\$590,482	\$605,922	\$599,280	\$759,284	\$732,907	\$776,610	\$765,395	\$794,264	\$758,220	\$762,265	\$771,401	\$795,632	\$784,959

Table VIII-8 (continued)
Summary of District Revenues and Expenditures

Residential/Commercial Collection Programs	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Scrap Tire Collection	\$27,340	\$25,000	\$25,425	\$25,857	\$26,297	\$26,744	\$27,198	\$27,661	\$28,131	\$28,609	\$29,096	\$29,590	\$30,093
Bar/Restaurant Glass Recycling	\$0	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Subtotal	\$27,340	\$25,000	\$125,425	\$125,857	\$126,297	\$56,744	\$57,198	\$57,661	\$58,131	\$58,609	\$59,096	\$59,590	\$60,093
Collection Center Programs													
Household Hazardous Waste (HHW) Collection (Collection Center)	\$129,834	\$82,623	\$84,027	\$85,456	\$86,909	\$88,386	\$89,889	\$91,417	\$92,971	\$94,551	\$96,159	\$97,793	\$99,456
Electronics Recycling (Collection Center)	\$47,773	\$47,390	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fluorescent Bulb and Ballast Recycling (Collection Center)	\$44,235	\$44,987	\$45,752	\$46,530	\$47,321	\$48,125	\$48,943	\$49,775	\$50,622	\$51,482	\$52,357	\$53,247	\$54,153
Subtotal	\$221,842	\$175,000	\$129,779	\$131,986	\$134,229	\$136,511	\$138,832	\$141,192	\$143,592	\$146,034	\$148,516	\$151,041	\$153,609
Grants and Loans													
Recycling Revolving Loan	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
District Market Development Grants (Commissioner Grants)	\$0	\$40,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Community Incentive Grant	\$328,859	\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
Yard Waste Incentive Grant	\$0	\$0	\$0	\$200,000	\$200,000	\$150,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Lorain County Recycling Scholarship	\$0	\$0	\$0	\$10,000	\$5,000	\$5,000	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0
Multi-Family Housing Unit Recycling Grant	\$0	\$0	\$0	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Subtotal	\$328,859	\$290,000	\$300,000	\$620,000	\$615,000	\$565,000	\$490,000	\$485,000	\$375,000	\$375,000	\$375,000	\$375,000	\$375,000
Environmental Clean-Up, Monitoring, and Enforcement													
Volunteer Litter Collection (Lorain County Pride Day)	\$5,285	\$5,375	\$5,466	\$5,559	\$5,654	\$5,750	\$5,848	\$5,947	\$6,048	\$6,151	\$6,256	\$6,362	\$6,470
Open Dump and Scrap Tire Clean-Up	\$0	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
C.A.B. (Clean and Beautiful)	\$701	\$675	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000
Sheriff's Department Funding	\$117,815	\$117,555	\$124,642	\$126,761	\$128,916	\$131,107	\$133,336	\$135,603	\$137,908	\$140,253	\$142,637	\$145,062	\$147,528
Subtotal	\$123,801	\$123,605	\$156,108	\$133,320	\$135,570	\$137,857	\$140,184	\$142,550	\$144,956	\$147,404	\$149,892	\$152,424	\$154,988
Outreach, Education, and Technical Assistance													
Yard Waste Management (OSU Agricultural Agent)	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400	\$17,400
Residential Recycling Education and Awareness	\$22,027	\$18,000	\$24,000	\$24,408	\$24,823	\$25,245	\$25,674	\$26,111	\$26,554	\$27,006	\$27,465	\$27,932	\$28,407
Consortium for Waste Services	\$21,000	\$0	\$0	\$25,000	\$0	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Zero Waste Planning	\$20,000	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Waste Audits	\$0	\$0	\$0	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500	\$7,500
Commercial/Industrial Recycling Recognition Program	\$0	\$0	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Business Recycling Roundtable	\$0	\$0	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500
Energy from Waste Feasibility Assessment	\$0	\$0	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Subtotal	\$80,427	\$35,400	\$67,400	\$125,308	\$100,723	\$126,145	\$101,574	\$102,011	\$82,454	\$82,906	\$83,365	\$83,832	\$84,307
Other Programs													
Health Department Financial Assistance	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000	\$170,000
County Assistance (Engineer)	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
New Programs Funding (General Plan Implementation)	\$0	\$2,383	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000
Disaster Debris Management	\$0	\$46,260	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Third Party Financial Audit	\$0	\$0	\$15,255	\$0	\$15,778	\$0	\$16,319	\$0	\$16,879	\$0	\$17,457	\$0	\$18,056
Subtotal	\$220,000	\$288,643	\$335,255	\$320,000	\$336,778	\$320,000	\$336,319	\$320,000	\$336,879	\$320,000	\$337,457	\$320,000	\$338,056
Total Expenditures	\$2,163,053	\$2,114,729	\$2,250,560	\$2,766,043	\$2,742,165	\$2,630,666	\$2,610,389	\$2,633,423	\$2,630,009	\$2,503,185	\$2,546,665	\$2,569,403	\$2,593,651
Difference	\$97,657	\$372,347	\$215,716	-\$381,277	-\$380,331	-\$293,863	-\$270,376	-\$229,304	-\$92,047	-\$91,355	-\$130,318	-\$145,683	-\$169,562
Ending Balance	\$2,644,340	\$3,016,688	\$3,232,398	\$2,851,121	\$2,500,790	\$2,206,927	\$1,986,551	\$1,767,246	\$1,676,199	\$1,583,844	\$1,453,626	\$1,303,843	\$1,134,281

IX. District Rules [ORC Section 3734.53(C)]

The District reserves the right to adopt rules specifically authorized by the Ohio Revised Code (ORC). Section 343.01 (G) of the ORC provides the Board of County Commissioners with the authority to adopt, publish and enforce rules if the District Plan authorizes rule adoption under ORC Section 3734.53 (C). The District is authorized under this *Plan Update* to adopt rules under the following provisions of the ORC:

ORC 3734.53 (C)(1): Prohibiting or limiting the receipt at facilities located within the solid waste management district of solid wastes generated outside the district or outside a prescribed service area consistent with the projections under divisions (A)(6) and (7) of this section. However, rules adopted by a board under division (C)(1) of this section may be adopted and enforced with respect to solid waste disposal facilities in the solid waste management district that are not owned by a county or the solid waste management district only if the board submits an application to the director of environmental protection that demonstrates that there is insufficient capacity to dispose of all solid wastes that are generated within the district at the solid waste disposal facilities located within the district and the director approves the application. The demonstration in the application shall be based on projections contained in the plan or amended plan of the district. The director shall establish the form of the application. The approval or disapproval of such an application by the director is an action that is appealable under section 3745.04 of the Revised Code. In addition, the director of environmental protection may issue an order modifying a rule authorized to be adopted under division (C)(1) if this section to allow the disposal in the district of wastes from another county or joint solid waste management district if all of the following apply:

- (a) The district in which the wastes were generated does not have sufficient capacity to dispose of solid wastes generated within it for six months following the date of the directors' order;
- (b) No new solid waste facilities will begin operation during those six months in the district in which the wastes were generated and, despite good faith efforts to do so, it is impossible to site new solid waste facilities within the district because of its high population density;
- (c) The district in which the wastes were generated has made good faith efforts to negotiate with other districts to incorporate its disposal needs within those districts' solid waste management plans, including efforts to develop joint facilities authorized under section 343.02 of the Revised Code, and the efforts have been unsuccessful;

- (d) The district in which the wastes were generated has located a facility willing to accept the district's solid wastes for disposal within the receiving district;
- (e) The district in which the wastes were generated has demonstrated to the director that the conditions specified in divisions (C)(1)(a) to (d) of this section have been met;
- (f) The director finds that the issuance of the order will be consistent with the state solid waste management plan and that receipt of out-of-state wastes will not limit the capacity of the receiving district to dispose of its in-district wastes to less than eight years. Any order issued under division (C)(1) of this section shall not become final until thirty days after it has been served by certified mail upon the county or joint solid waste management district that will receive the out-of-district wastes.

ORC 3734.53(C)(2) Governing the maintenance, protection, and use of solid waste collection and solid waste disposal, transfer, recycling, and resource recovery facilities within the district and requiring the submission of general plans and specifications for the construction, enlargement, or modification of any such facility to the Board of County Commissioners or Board of Directors of the district for review and approval as complying with the plan or amended plan of the District.

ORC 3734.53(C)(3) Governing development and implementation of a program for the inspection of solid wastes generated outside the boundaries of the state that are being disposed of at solid waste facilities included in the district's plan.

ORC 3734.53(C)(4) Exempting the owner or operator of any existing or proposed solid waste facility provided for in the plan from compliance with any amendment to a township zoning resolution adopted under Section 519.12 of the Revised Code or to a county rural zoning resolution adopted under Section 303.12 of the Revised Code that rezoned or redistricted the parcel or parcels upon which the facility is to be constructed or modified and that became effective within two years prior to the filing of an application for a permit required under division (A)(2)(a) of section 3734.05 of the Revised code to open a new or modify an existing solid waste facility.

A. Existing Rules

ORC Section 3734.53 (C)(1) through (C)(4) provide solid waste management districts the authority to adopt rules consistent with the solid waste management plan adopted by the District. The following rules have been adopted by the District in accordance with ORC Sections 3734.53 (C)(1) through (C)(4) and the Plan. Resolution No. 94-518 adopted by the District Board of Directors provides the District with the authority to adopt

these rules. With the ratification of this *Plan Update*, new rule numbers shall be in effect.

Rule Lorain SWMD-01 – Definitions for Applicants for Solid Waste Facility Permits, Registrations or Licenses

The following definitions are applicable to all District rules.

- a. **Applicant** shall mean a person, municipal corporation, township or other political subdivision proposing to construct or modify a Solid Waste Facility, Incinerator or Solid Waste Energy Recovery Facility within the District.
- b. **Board of Commissioners** means the Board of County Commissioners of Lorain County, Ohio.
- c. **Designated Facility** or **Designation** means a Solid Waste disposal, transfer, recycling or resource recovery facility which the Board of Commissioners has authorized to receive solid waste generated within the District pursuant to R.C. 343.01(l)(2) and the District's solid waste management plan.
- d. **District** means the Lorain County Solid Waste Management District.
- e. **General Plans and Specifications** shall mean that information required to be submitted to the Board for review for the construction or modification of any proposed Solid Waste Facility and includes, but is not limited to, a site plan for the proposed facility, architectural drawings or artists' renderings of the proposed facility, the projected size and capacity of the proposed facility and all other information identified in this Siting Strategy.
- f. **Incinerator** means any equipment, machine, device, article, contrivance, structure or part of a structure used to burn solid or infectious wastes to ash.
- g. **Material Recovery Facility** means a facility used to separate, sort, or process Solid Waste in order to segregate materials with value for recycling.
- h. **Modify** shall mean a significant change in the operation of an existing in-District Solid Waste Facility: (1) that requires the approval of the Director of the Ohio Environmental Protection Agency; or (2) that involves a change in the type of material,

manner of operation, or activities conducted at the facility (i.e., a conversion of a legitimate recycling facility to a transfer station).

- i. **Recycle** or **Recycling** means the activity of collecting, sorting, cleansing, processing and reconstituting Solid Waste and returning reconstituted materials to commerce as valuable commodities for use or exchange.
- j. **Recycled Materials** means articles of Solid Waste that have been Recycled.
- k. **Siting Strategy** shall mean the process by which the Board of Commissioners shall review proposals for the construction or modification of any Solid Waste Facility and determine whether such proposal complies with the *Plan Update*.
- l. **Solid Waste** means such unwanted residual solid or semisolid material as results from industrial, commercial, agricultural, and community operations, excluding earth or material from construction, mining, or demolition operations, or other waste materials of the type that normally would be included in demolition debris, nontoxic fly ash and bottom ash, including at least ash that results from the combustion of coal and ash that results from the combustion of coal in combination with scrap tires where scrap tires comprise not more than fifty percent of heat input in any month, spent nontoxic foundry sand, and slag and other substances that are not harmful or inimical to public health, and includes, but is not limited to, garbage, scrap tires, combustible and noncombustible material, street dirt, and debris. **Solid Waste** does not include any material that is an infectious waste or a hazardous waste.
- m. **Solid Waste Energy Recovery Facility** means any site, location tract of land, installation or building where mixed solid waste or select solid waste streams, including scrap tires, is used as or intends to be used as fuel to produce energy, heat, or steam.
- n. **Solid Waste Facilities** shall mean all solid waste collection, storage, disposal (landfill), transfer, recycling, processing, and resource recovery facilities.
- p. **Source-separated Recyclable Materials** means Solid Waste which the generator or producer intends to be Recycled and has separated from other Solid Waste at the point of generation or the point of collection.

- q. **Waiver Agreement** means the standard form of agreement, approved by the Board of Commissioners, that is entered into between the District and a party that requests a waiver under R.C. 343-01(l)(2) and the District's solid waste management plan, to authorize delivery of Solid Waste generated within the District to a facility not designated by the Board of Commissioners.
- r. **Yard Waste** means yard waste that has been separated at the point of generation or at the point of collection from other Solid Wastes.

Any applicant as defined above for a permit-to-install, registration or license for a solid waste facility, incinerator or energy recovery facility under Ohio solid waste law or regulations shall comply with the Siting Strategy presented in the solid waste management *Plan Update*. Currently, this is located in Section VI, Part G. The location may change under new versions of the Ohio EPA Format.

Rule Lorain SWMD-02-Solid Waste Facility Review

Any person owning or operating a solid waste or recycling facility within the District shall do the following:

1. Submit three copies of any Permit-to-Install (PTI) application required by the Ohio EPA to the District for review and approval.
2. Submit three copies of all plans and specifications for expansion, modification or new solid waste or recycling facility to the District for review and approval.
3. Comply with the requirements of Section VI, (G) Siting Strategy for Facilities of the *Plan Update*.

Rule Lorain SWMD-03- Reporting Collection of Recyclable Materials and Solid Waste Facility Annual Report Data Submittal

1. Any person that collects Solid Waste generated within the District, or provides Solid Waste transfer, processing, resource recovery, Recycling or Material Recovery Facility services within the District, shall report the quantity, volume or amount of Source-separated Recyclable Materials collected, and the amount of Recyclable Materials recovered, to the District's Re-TRAC Connect Survey System using the form prescribed by the District and the reporting periods prescribed by the District. The District shall provide copies of its prescribed reporting form, and instructions for completing and

submitting the reporting form on the District's website at and/or by regular mail upon request.

2. By April 1 of each year, any person owning or operating a solid waste facility shall submit information and data summarizing solid waste disposal; residential, commercial, and industrial recycling; and solid waste transfers for the preceding calendar year. Such information shall be submitted in a format to be provided by the District, or if approved by the District, the same format and forms submitted to the Ohio EPA.

Rule Lorain SWMD-04 – Waiver Process for the Use of Undesignated Facilities

Any person may apply for a waiver from the requirements of Designation by submitting an application for a Waiver Agreement in compliance with the application process specified in Section VI(F) of the District's solid waste management plan. Waivers that are granted shall use the standard form of Waiver Agreement approved by the Board of Commissioners. A party that enters into a Waiver Agreement with the District shall comply with all of the terms and conditions of the Waiver Agreement.

The Waiver Process clarifies who may request a waiver and the information to be provided. The application for the waiver must explain the basis for the Board to grant the waiver request. Any person or the legislative authority of a municipal corporation or township may request a waiver authorizing the delivery of solid waste generated within the District to an undesignated solid waste facility. The waiver request shall include the following:

1. The name, address, telephone number and email address of the person requesting the waiver.
2. The source and name of the generator of the solid waste included in the waiver request.
3. The name, address, telephone number and email address of the undesignated solid waste facility where solid waste generated within the District will be delivered if the waiver is approved by the Board.
4. The estimated annual tonnage of the solid waste that will be delivered to the undesignated solid waste facility covered by the waiver request.
5. An explanation describing how approval of the waiver request is not inconsistent with the projections contained in the District's initial or

amended Plan under divisions (A)(6) and (7) of section 3734.53 of the Revised Code.

6. An explanation describing how the approval of the waiver request will not adversely affect implementation and financing of the District's initial or amended Plan pursuant to the implementation schedule contained in the District's initial or amended Plan under division (A)(12)(a) of section 3734.53 of the Revised Code.

Any waiver granted by the Board shall be included in a waiver agreement by and between the Board and the person granted the waiver. The waiver agreement shall contain the terms and conditions upon which the waiver was granted and the payment by the grantee of the waiver fee, if any, assessed on each ton of solid waste covered by the waiver.

Rule Lorain SWMD-05 – Fee Payment Forms

A solid waste facility, incinerator or energy recovery facility, as defined in Rule Lorain-01 or the District Siting Strategy in the solid waste management plan, that is required to make a fee payment to the solid waste district as required by Ohio Revised Code or contractual requirements must complete in full the district fee form. The fee form must be completed per the instructions on the form. A fee form that is not completed per the instructions will be considered deficient and the owner/operator of the solid waste facility, incinerator or energy recovery facility will receive a written request from the District to revise the submitted Fee Payment Form with the missing requested information. The owner/operator will have 14 business days from receipt of the letter to complete the form and return it in compliance with the request.

Rule Lorain SWMD-06 – Designated Solid Waste Facility

No person, municipal corporation, township, or other political subdivision shall deliver, or cause the delivery of, any Solid Waste generated within the Lorain County Solid Waste Management District to any Solid Waste transfer, disposal, recycling, or resource recovery facility other than a facility designated by the Board of Commissioners pursuant to the District's solid waste management plan, unless such Solid Waste is: (a) expressly exempted from the requirements of Designation under Ohio law or District Rules; or (b) delivered directly to a properly licensed and permitted solid waste facility located outside the State of Ohio; or (c) delivered in compliance with the terms and conditions of a Waiver Agreement entered into with the District authorizing delivery to a facility that is not designated by the Board of Commissioners. The only facility currently designated by the Board of Commissioners to receive Solid

Waste generated within the district is the Lorain County Landfill, located at 43502 Oberlin-Elyria Road, Oberlin, Ohio 44074.

Rule Lorain SWMD-07 – Solid Waste Exempt from Designation

The following Solid Waste is exempt from the requirements of designation and may be delivered to a properly licensed and permitted facility that is not designated by the Board of Commissioners:

1. Solid Waste generated by and collected at industrial facilities located within the District that are classified in SIC code 20 and 22-39 or North American Industrial Classification System (NAICS) manufacturing codes 31, 32 and 33.
2. Source-separated Recyclable Materials that are delivered to a community drop-off, resource recovery facility, Material Recovery Facility, transfer facility for collection and delivery to a legitimate Recycling facility, or a broker, processor or manufacturer that uses post-consumer products as a raw material.
3. Source-separated Yard Waste is to be delivered to any registered, licensed, permitted yard waste management composting facility.

B. Proposed Rules

The District made minor adjustments and consolidation of existing rules for this *Plan Update*. All old rules that were previously rescinded were removed from existing rules. The changes and revised Rule numbering will become effective upon ratification of the *Plan Update*. In addition, the following Rules are proposed and will become effective upon ratification of this solid waste management plan.

Rule Lorain SWMD-01 – Definitions for Applicants for Solid Waste Facility Permits, Registrations or Licenses

“Solid Waste Transporter (SWT)” shall be defined as a person or company who engages in the enterprise of collection and transportation of solid waste, source separated recyclables, source separated yard waste or organic waste, by truck, or other hauling vehicle that uses the public roadways for the loading and unloading of solid waste, recyclables, yard waste and who possesses all required licenses and registrations from local, state, and federal governmental entities and authorities as appropriate and relevant including all requirements under these regulations.

Rule Lorain SWMD-08 – Registration of Solid Waste Transporters

All Solid Waste Transporters, as defined in Rule Lorain County SWMD-01 definitions doing business within the borders of the Lorain County Solid Waste Management District must register with the Lorain County Sheriff's Department. Registration must be completed in person at the Lorain County Sheriff's Department on forms provided by the Sheriff's Department and must be completed in full. The cost of initial registration will be to be determined by the Sheriff's Department,

All Solid Waste Transporters operating within the borders of the Lorain County Solid Waste Management District at the time this Rule is adopted must register with the Lorain County Sheriff's Department within three (3) months of the effective date of this Rule.

Following the effective date of this Rule, prior to commencement of operations within the borders of the Lorain County Solid Waste Management District, any new Solid Waste Transporter must register with the Lorain County Sheriff's Department.

All Solid Waste Transporters must annually update registration information during the month of December and obtain an annual registration sticker from the Lorain County Sheriff prior to January 1. The cost of the annual update and registration will be determined by Sheriff's Department.

Any Solid Waste Transporter that fails to comply with the registration requirements in this Rule shall be fined at least \$10,000 but not more than \$25,000. Each day of violation constitutes a separate offense.

Rule Lorain SWMD-09 – Commingled Loads Hauled by Registered Solid Waste Transporters

Registered solid waste transporters shall not combine waste or recyclables generated within the jurisdiction of the Lorain County Solid Waste District with any other solid waste districts solid waste as defined by the ORC 343.

C. Rule Approval Process

The Board of Commissioners shall consider the following process when adopting solid waste management rules.

1. Public Notice of the solid waste management rules in a daily newspaper operating in the District.
2. 30-day public comment period.

3. Public Hearing on the proposed rules (Commissioners meetings will suffice as a public hearing).
4. Make any appropriate changes to the proposed rules as a result of C1, C2, and C3.

Following steps (C) 1-4, the Board shall adopt the rules of the solid waste management district.

For the proposed changes in this *Plan Update*, the public notice, comment period and public hearing required for the ratification of this Plan along with the Board of Commissioners approval, will be sufficient for rule adoption.



APPENDIX A

RESOLUTION FOR DISTRICT FORMATION



March 21, 1989

RESOLUTION NO. 89-236

In the matter of establishing a Single-County)
Solid Waste Management District, as required)
by House Bill 592.)

WHEREAS, House Bill 592 dealing with Solid Waste Management, required the establishment of a Solid Waste Management Policy Committee. This Committee was comprised of the President of the Board of Commissioners; a County Health Commissioner; Mayor of the most populous City within Lorain County; a Representative of the Townships, and a fifth member representing the Public Sector; and

WHEREAS, the Organizational meeting of this Committee was held on January 13, 1989; and

WHEREAS, two Public Hearings have been held giving the Community their chance to voice opinions as to a Single or Multi-County District; and

WHEREAS, the Policy Committee has made their recommendation to the Board of Commissioners on the establishment of a Single County Solid Waste District as required by House Bill 592 by or before March 24, 1989.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of Lorain County, Ohio, that after discussing the pros and cons to bring into existence a Single or Multi-County Solid Waste District, holding public hearings etc., we do and hereby determine to establish a Single County Solid Waste District, as required per House Bill 592.

FURTHER BE IT RESOLVED that a copy of this Resolution be forwarded to the Director of the Ohio Environmental Protection Agency.

The foregoing resolution was introduced upon a motion by Commissioner Herbert J. Jacoby, seconded by Commissioner George I. Koury, Jr., and the vote taken thereon resulted as follows: Herbert J. Jacoby, "aye"; George I. Koury, Jr., "aye"; Mary Jo Vasi, "aye".
Motion carried.

RESOLUTION NO. 89-237



APPENDIX B

PUBLIC NOTICES FOR PUBLIC HEARING AND PUBLIC COMMENT



**PUBLIC NOTICE
LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT**

Public Comment Period for Draft Solid Waste Management Plan Update

The Lorain County Solid Waste Management District (District) is establishing a 30-day written comment period (May 6– June 4) on the draft Solid Waste Management Plan Update (Plan Update) (Ohio Revised Code Section 3734.54). The District has prepared the draft Plan Update as required by Section 3734.54 of the Ohio Revised Code. The draft Plan Update includes a budget and fees to finance the Plan, a solid waste facility inventory, projections and strategies for reducing waste, facilities and programs to be used, an analysis of the progress made toward achieving state solid waste reduction goals, and District rules.

The District is not proposing any changes to the current disposal fee schedule, which is set at \$2.00 per ton for in-district, out-of-district, and out-of-state waste.

This draft is an update to a previously approved solid waste plan. This Plan Update details existing programs including residential recycling education programs, grant programs for Lorain County political subdivisions, residential/commercial recycling and collection programs, market development programs, industrial waste reduction strategies, and other activities such as litter and open dump enforcement and scrap tire clean-up. Other specific programs include the non-subscription and volume based curbside recycling programs, drop-off recycling programs, yard waste management, household hazardous waste collection, electronics recycling, tire recycling, appliance recycling, phone book collection, fluorescent bulb and ballast recycling, commercial sector paper recycling, specialized bottle/can collection programs, and the District's Collection Center.

New programs to be implemented during the 2016 to 2025 planning period include but are not limited to waste services consortiums, zero waste planning assistance, yard waste composting incentive grant for political subdivisions, and a bar/restaurant glass recycling program. Descriptions of each program and an implementation schedule are included in the Plan.

The draft Plan Update includes a demonstration of access to landfill capacity and determines there is more than ten years of capacity available to the District. Specifically, the Lorain County Landfill has enough capacity to manage all of the waste generated in the District through 2025.

This draft Plan Update continues to authorize the Board of Commissioners to establish facility designations in accordance with Section 343.013 and 343.014 of the Ohio Revised Code. The District has designated the Republic Lorain County Landfill to receive all Lorain County generated residential and commercial solid waste. The District will issue a general waiver to industrial facilities classified in SIC code 20 and 22-39 or North American Industrial Classification System (NAICS) manufacturing codes 31, 32 and 33.

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The draft Plan Update includes a waiver process to permit the delivery of solid waste to facilities that are not designated. A waiver requires approval by the Board of Commissioners.

The draft Plan Update includes a detailed siting strategy for the submission and review of plans, specifications, and applications of the siting strategy to proposed solid waste facilities including the maximum feasible utilization and exemption of existing in-district facilities.

The draft Plan Update complies with State Plan Goal #1: Access to Waste Management Opportunities. The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

The District will hold a public hearing to obtain oral comments regarding the draft Plan Update on Tuesday, June 9, at 10:15 a.m. at the Lorain County Administration Building on the fourth floor in the Commissioners' Hearing Room located at 226 Middle Ave., Elyria, Ohio 44035. The District will accept written comments as required by Ohio Revised Code Section 3734.55 on the draft Plan Update from May 6, 2015 until June 4, 2015. Written comments should be sent to Mr. Keith Bailey, Director, 226 Middle Avenue, County Administration Building, Elyria, Ohio 44035.

The draft Plan Update is available for review at the District's office, 226 Middle Avenue, County Administration Building, Elyria, Ohio 44035, during normal business hours and on the District website at www.loraincounty.us/solidwaste. Please call (440) 328-2248 with any questions about the Plan Update or the opportunity to review a copy.

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AFFIDAVIT

THE STATE OF OHIO
County of Lorain

I, the undersigned, being duly sworn, do upon my oath depose and say for the publishers of THE CHRONICLE TELEGRAM; that said newspaper is printed and published, and of general circulation in Lorain County; that said newspaper meets the requirements of Sections 7.12 and 5721.01 Ohio Revised Code as amended effective September 14, 1957, and that the notice, a copy of which is attached, was published in said newspaper on the 5th day of May, 2015 A.D.

Linda Jones
Legal Clerk, THE CHRONICLE TELEGRAM

Sworn to and subscribed before me this 6th day of May, A.D. 2015.

Dale E. Rutar
Notary Public

DALE E. RUTAR, Notary Public
For the State of Ohio
My commission expires Aug. 31, 2019

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WASTE MANAGEMENT
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The draft Plan Update includes a detailed siting strategy for the submission and review of plans, specifications, and applications of the siting strategy to proposed solid waste facilities including the maximum feasible utilization and exemption of existing in-district facilities.

The draft Plan Update complies with State Plan Goal #1: Access to Waste Management Opportunities. The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

The District will hold a pub-

Printer's Fees	\$	563.34
Notary Fees	\$	1.50
TOTAL	\$	564.84

AFFIDAVIT

THE STATE OF OHIO
County of Lorain

I, the undersigned, being duly sworn, do upon my oath depose and say for the publishers of THE CHRONICLE TELEGRAM; that said newspaper is printed and published, and of general circulation in Lorain County; that said newspaper meets the requirements of Sections 7.12 and 5721.01 Ohio Revised Code as amended effective September 14, 1957, and that the notice, a copy of which is attached, was published in said newspaper on the 5th day of May, 2015 A.D.

lic hearing to obtain oral comments regarding the draft Plan Update on Tuesday, June 9, at 10:15 a.m. at the Lorain County Administration Building on the fourth floor in the Commissioners' Hearing Room located at 226 Middle Ave., Elyria, Ohio 44035. The District will accept written comments as required by Ohio Revised Code Section 3734.55 on the draft Plan Update from May 6, 2015 until June 4, 2015. Written comments should be sent to Mr. Keith Bailey, Director, 226 Middle Avenue, County Administration Building, Elyria, Ohio 44035.

Legal Clerk, THE CHRONICLE TELEGRAM

Sworn to and subscribed before me this 6th day of May, A.D. 2015.

The draft Plan Update is available for review at the District's office, 226 Middle Avenue, County Administration Building, Elyria, Ohio 44035, during normal business hours and on the District website at www.loraincounty.us/solidwaste. Please call (440) 328-2248 with any questions about the Plan Update or the opportunity to review a copy

Notary Public

C.T.5/5/15
20510573

Printer's Fees	\$	563.34
Notary Fees	\$	1.50
TOTAL	\$	564.84

AFFIDAVIT

THE STATE OF OHIO
County of Lorain

I, the undersigned, being duly sworn, do upon my oath depose and say for the publishers of THE CHRONICLE TELEGRAM: that said newspaper is printed and published, and of general circulation in Lorain County; that said newspaper meets the requirements of Sections 7.12 and 5721.01 Ohio Revised Code as amended effective September 14, 1957, and that the notice, a copy of which is attached, was published in said newspaper on the 25th day of May, 2015 A.D.

Rinda Jones
Legal Clerk, THE CHRONICLE TELEGRAM

Sworn to and subscribed before me this 26th day of May, A.D. 2015.

DALE E. RUTAR
Notary Public

DALE E. RUTAR, Notary Public
For the State of Ohio
My commission expires Aug. 31, 2019

Public Hearing Notice

The District will hold a public hearing to obtain oral comments regarding the draft Plan Update on Tuesday, June 9, at 10:15 a.m. at the Lorain County Administration Building on the fourth floor in the Commissioners' Hearing Room located at 226 Middle Ave., Elyria, Ohio 44035.

The District has prepared the draft Plan Update as required by Section 3734.54 of the Ohio Revised Code. The draft Plan Update includes a budget and fees to finance the Plan, a solid waste facility inventory, projections and strategies for reducing waste, facilities and programs to be used, an analysis of the progress made toward achieving state solid waste reduction goals, and District rules.

The District is not proposing any changes to the current disposal fee schedule, which is set at \$2.00 per ton for in-district, out-of-district, and out-of-state waste.

This draft is an update to a previously approved solid waste plan. This Plan Update details existing programs including residential recycling education programs, grant programs for Lorain County political subdivisions, residential/commercial recycling and collection programs, market development programs, industrial waste reduction strategies, and other activities such as litter and open dump enforcement and scrap tire clean-up. Other specific programs include the non-subscription and volume based curbside recycling programs, drop-off recycling programs, yard waste management, household hazardous waste collection, electronics recycling, tire recycling, appliance recycling, phone book collection, fluorescent bulb and ballast recycling, commercial sector paper recycling, specialized bottle/can collection programs, and the District's Collection Center.

New programs to be implemented during the 2016 to 2025 planning period include but are not limited to waste services consortiums, zero waste planning assistance, yard waste composting incentive grant for political subdivisions, and a bar/restaurant glass recycling program. Descriptions of each program and an implementation schedule are included in the Plan.

The draft Plan Update includes a demonstration of access to landfill capacity and determines there is more than ten years of capacity available to the District. Specifically, the Lorain County Landfill has enough capacity to manage all of the waste generated in the District through 2025.

This draft Plan Update continues to authorize the Board of Commissioners to establish facility designations in accordance with Section 343.013 and 343.014 of the Ohio Revised Code. The District has designated the Republic Lorain County Landfill to receive all Lorain County generated residential and commercial solid waste. The District will issue a general waiver to industrial facilities classified in SIC

code 20 and 22 - 39 or North American Industrial Classification System (NAICS) manufacturing codes 31, 32 and 33.

All source separated recyclables are authorized for delivery to any community drop-off, resource recovery facility, material recovery facility, transfer facility for collection and delivery to a legitimate recycling facility, broker, processor or manufacturer using post-consumer products as a raw material. Yard waste may be delivered to any registered, licensed, permitted yard waste management facility.

The draft Plan Update includes a waiver process to permit the delivery of solid waste to facilities that are not designated. A waiver requires approval by the Board of Commissioners.

The draft Plan Update includes a detailed siting strategy for the submission and review of plans, specifications, and applications of the siting strategy to proposed solid waste facilities including the maximum feasible utilization and exemption of existing in-district facilities.

The draft Plan Update complies with State Plan Goal #1: Access to Waste Management Opportunities. The District shall provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

The District will accept written comments as required by Ohio Revised Code Section 3734.55 on the draft Plan Update from May 6, 2015 until June 4,

Printer's Fees	\$	522.59
Notary Fees	\$	1.50
TOTAL	\$	524.09

AFFIDAVIT

THE STATE OF OHIO
County of Lorain

I, the undersigned, being duly sworn, do upon my oath depose and say for the publishers of THE CHRONICLE TELEGRAM; that said newspaper is printed and published, and of general circulation in Lorain County; that said newspaper meets the requirements of Sections 7.12 and 5721.01 Ohio Revised Code as amended effective September 14, 1957, and that the notice, a copy of which is attached, was published in said newspaper on the 25th day of May, 2015 A.D.

2015. Written comments should be sent to Mr. Keith Bailey, Director, 226 Middle Avenue, County Administration Building, Elyria, Ohio 44035.

The draft Plan Update is available for review at the District's office, 226 Middle Avenue, County Administration Building, Elyria, Ohio 44035, during normal business hours and on the District website at www.loraincounty.us/solidwaste. Please call (440) 328-2248 with any questions about the Plan Update or the opportunity to review a copy.

C.T.5/25/15
20510581

Legal Clerk, THE CHRONICLE TELEGRAM

Sworn to and subscribed before me this 26th day of May, A.D. 2015.

Notary Public

Printer's Fees	\$	522.59
Notary Fees	\$	1.50
TOTAL	\$	524.09



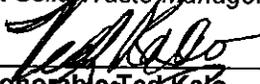
APPENDIX C

RESOLUTIONS AND CERTIFICATION STATEMENTS



CERTIFICATION STATEMENT FOR THE DRAFT PLAN

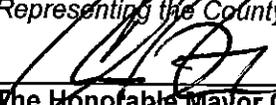
We as representatives of the Solid Waste Management Policy Committee (SWMPC) of the Lorain County Solid Waste Management District (District), do hereby certify that to the best of our knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the draft Lorain County Solid Waste Management Plan Update, and the availability of and access to sufficient solid waste management facility capacity to meet the solid waste management needs of the District for the ten year period covered by the Plan Update are accurate and are in compliance with the requirements in the *District Solid Waste Management Plan Format*, revision 3.0.



The Honorable Ted Kalo
Representing the County Commissioners

2-23-15

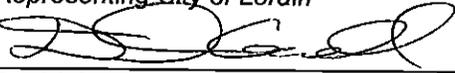
Date Signed



The Honorable Mayor Chase Ritenauer
Representing City of Lorain

2/10/15

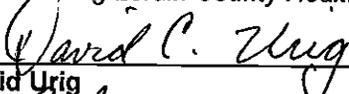
Date Signed



David Covell
Representing Lorain County Health Department

2/10/15

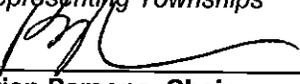
Date Signed



David Urig
Representing Townships

2-10-15

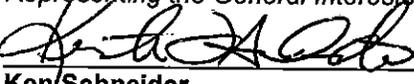
Date Signed



Brian Parsons, Chairperson
Representing the General Interests of Citizens

2/10/15

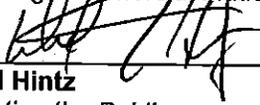
Date Signed



Ken Schneider
Representing Commercial/Industrial Generators

2/10/15

Date Signed



Dr. David Hintz
Representing the Public

2/10/15

Date Signed

Instructions: When a resolution/ordinance is received, locate the political subdivision's row. Click the cell in either the approved or disapproved column, press the equal sign on your keyboard, click the political subdivision's population, then hit "Enter" on your keyboard. Percentages will automatically calculate.

Lorain County Solid Waste District Plan Ratification Population Table	2015 Pop	Approved the Plan	Disapproved the Plan
Cities and Villages			
Amherst city	12,197	12,197	
Avon city	22,171	22,171	
Avon Lake city	23,159	23,159	
Elyria city	54,333	54,333	
Grafton village	6,049	6,049	
Kipton village	245		
LaGrange village	2,120	2,120	
Lorain city	64,155	64,155	
North Ridgeville city	31,487	31,487	
Oberlin city	8,449	8,449	
Rochester village	183		
Sheffield Lake city	9,130	9,130	
Sheffield village	4,045	4,045	
South Amherst village	1,683	1,683	
Vermilion city*	10,476	10,476	
Wellington village	4,854	4,854	
Townships			
Amherst township	5,703	5,703	
Brighton township	914	914	
Brownhelm township	1,810	1,810	
Camden township	1,426		1,426
Carlisle township	7,507	7,507	
Columbia township	7,144	7,144	
Eaton township	5,817	5,817	
Elyria township	3,256	3,256	
Grafton township	2,851	2,851	
Henrietta township	1,866	1,866	
Huntington township	1,343	1,343	
LaGrange township	4,078		
New Russia township	1,945	1,945	
Penfield township	1,805	1,805	
Pittsfield township	1,604	1,604	
Rochester township	628	628	
Sheffield township	3,728	3,728	
Wellington township	1,408	1,408	
Total 2015 Adjusted Population	309,566	303,634	1,426
60% Approval Total Needed		185,740	
Total Population Approved		303,634	
Percent Approved		98.1%	

*Adjusted population includes residents of Vermilion city in Erie County.

CERTIFICATION STATEMENT FOR THE DRAFT PLAN

We as representatives of the Solid Waste Management Policy Committee (SWMPC) of the Lorain County Solid Waste Management District (District), do hereby certify that to the best of our knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the draft Lorain County Solid Waste Management Plan Update, and the availability of and access to sufficient solid waste management facility capacity to meet the solid waste management needs of the District for the ten year period covered by the Plan Update are accurate and are in compliance with the requirements in the *District Solid Waste Management Plan Format*, revision 3.0.



The Honorable Ted Kato
Representing the County Commissioners

2-23-15

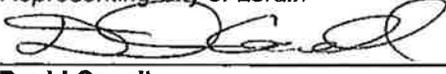
Date Signed



The Honorable Mayor Chase Ritenauer
Representing City of Lorain

2/10/15

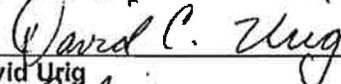
Date Signed



David Covell
Representing Lorain County Health Department

2/10/15

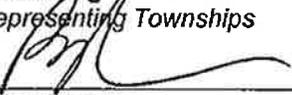
Date Signed



David Urig
Representing Townships

2-10-15

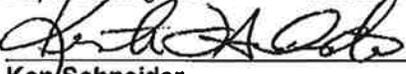
Date Signed



Brian Parsons, Chairperson
Representing the General Interests of Citizens

2/10/15

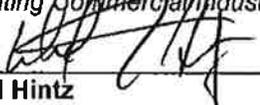
Date Signed



Ken Schneider
Representing Commercial/Industrial Generators

2/10/15

Date Signed



Dr. David Hintz
Representing the Public

2/10/15

Date Signed

Resolution Adopting the Solid Waste Management Plan

Resolution # 2015- 01

A RESOLUTION DECLARING THAT THE AMENDED SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT (DISTRICT) HAS BEEN ADOPTED.

Whereas, the District has completed the draft amended solid waste management Plan and submitted it to the Ohio Environmental Protection Agency for review and comment on February 24, 2015 and the Ohio Environmental Protection Agency provided comments in a non-binding advisory opinion on April 9, 2015.

Whereas, the Policy Committee has reviewed the non-binding advisory opinion received from the Ohio Environmental Protection Agency and taken their comments into consideration and incorporated changes into the amended Plan as appropriate;

Whereas the District has conducted a 30-day comment period (May 6 – June 4) and a public hearing held on Tuesday, June 9, 2015 to provide the public an opportunity to have input in this Plan;

NOW, THEREFORE, BE IT RESOLVED that the Lorain County Solid Waste Management District:

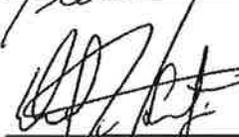
1. Adopts the amended Plan for the Lorain County Solid Waste Management District.
2. Certifies that, to the best of our knowledge and belief, the statements, demonstrations and all accompanying materials that comprise the District's Plan, and the availability of and access to sufficient solid waste management facility capacity to meet the solid waste management needs of the District for the ten-year period covered by the Plan, are accurate and are in compliance with the requirements of the District Solid Waste Management Plan Format, revision 3.0.

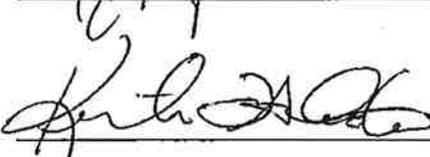
This resolution shall be in effect immediately upon its adoption.

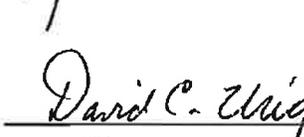
Voting for the Resolution:















Total Votes for the resolution: 7

Voting Against the Resolution:

Total Votes against the resolution: 0

Resolution Certifying Ratification of the Solid Waste Management Plan

Resolution No. 2015-02

A resolution declaring that the amended solid waste management plan for the Lorain County Solid Waste Management District has been ratified in accordance with Section 3734.55 of the Ohio Revised Code.

Whereas, the Lorain County Solid Waste Management District held a public hearing on June 9, 2015, and the Policy Committee adopted the amended solid waste management plan on June 9, 2015 following the hearing.

Whereas, the Lorain County Solid Waste District Policy Committee has received copies of resolutions and ordinances approving the amended solid waste management plan from the Board of County Commissioners, the legislative body of the largest municipality in the Lorain County Solid Waste Management District and from legislative jurisdictions representing at least 60 percent of the population within the District.

NOW THEREFORE BE IT RESOLVED that the Solid Waste Management District Policy Committee of the Lorain County Solid Waste Management District declares the amended Solid Waste Management Plan to be ratified in accordance with Section 3734.55 of the Ohio Revised Code, and shall cause the amended solid waste management plan to be submitted to the Director of the Ohio Environmental Protection Agency for review.

This resolution shall be in effect immediately upon its adoption.

Voting for the resolution:

Kenneth Schneider
[Signature]
David J. Wieg
[Signature]
[Signature]
[Signature]
[Signature]

Voting against the resolution:

This is to certify that the foregoing is a true and correct copy of the resolution passed by the Solid Waste Management District Policy Committee on September 08, 2015 and recorded in the Journal of said Policy Committee.

Date: 9/8/15

[Signature]
Policy Committee Chairman



LORAIN COUNTY

Board of Commissioners

Ted Kalo Lori Kokoski Matt Lundy

County Administrator
James R. Cordes
440-329-5760

Clerk of Board of Commissioners
Theresa Upton
440-329-5103

Animal Control Officer
Timothy Pihlblad
440-326-5997

Budget Director
Lisa Hobart
440-329-5201

Charles Berry Bridge
Superintendent
Al Zocchi
440-244-2137

Children & Family Council
Director
Melissa Stefano
440-284-4467

Community Development
Director
Don Romaneak
440-328-2323

E-9-1-1 Director
Tracy Slagle
440-329-5444

Emergency Management &
Homeland Security Director
Thomas Kelley
440-329-5117

Facilities Management Director
Karen Davis
440-329-5102

Golden Acres Administrator
Jeri Dull
440-988-7210

Human Resources Department
440-329-5150

IT Director
Ernie Smith
440-329-5786

Lorain County Crime/Drug Lab
Director
Emmanuel de Leon
440-329-5636

Lorain County Transit
440-329-5525

Office of Sustainability
Coordinator
Michael Challender
440-328-2361

Purchasing
440-329-5240

Records Center Supervisor
Denise Lindak
440-326-4866

Solid Waste Director
Keith Bailey
440-329-5442

Workforce Development Director
Mike Longo
440-284-4834

September 8, 2015

Keith Bailey, Director
LCSWMD
226 Middle Avenue
Elyria, Ohio 44035

Dear Mr. Bailey:

Enclosed is Resolution No. 15-548 adopted by the Lorain County Board of Commissioners on September 8, 2015 adopting the Lorain County Solid Waste Management Plan

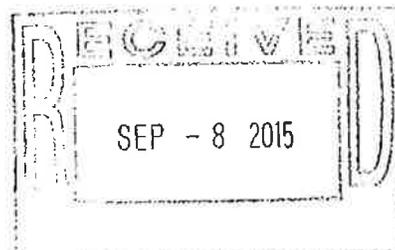
This is being forwarded for your information and files.

Sincerely,

Theresa L. Upton
Clerk

tlu
Enclosure

cc. File



a.2

RESOLUTION NO. 15-548

In the matter of adopting the Lorain County Solid Waste Management Plan)

September 8, 2015

WHEREAS, Lorain County is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to the Board of Lorain County Commissioners; and

WHEREAS, the Lorain County Board of Commissioners must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Lorain County Commissioners:

1. Approves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Board concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board, council or trustees and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Motion by Kokoski, seconded by Kalo to adopt Resolution. Upon roll call the vote taken thereon, resulted as: Ayes: Kokoski & Kalo / Absent: Lundy, on vacation.
Motion carried.

I, Theresa L. Upton, Clerk to the Lorain County Board of Commissioners do hereby certify that the above Resolution No. 15-548 is a true copy as it appears in Journal No. 15 on date of September 8, 2015.


Theresa L. Upton, Clerk



LORAIN CITY COUNCIL
200 WEST ERIE AVE, ROOM 103
LORAIN OH 44052
CITYOFLORAIN.ORG

OFFICE (440)204-2050

FAX (440)204-2521

July 8, 2015

Lorain County Solid Waste District
Attn: Keith Bailey, Director
226 Middle Avenue
Elyria, OH 44035

RE: Resolution No. 12-15 and Resolution No. 13-15

Dear Director Bailey:

Enclosed are certified copies of the above resolutions passed by Lorain City Council on July 6, 2015 during their regular meeting, per your request:

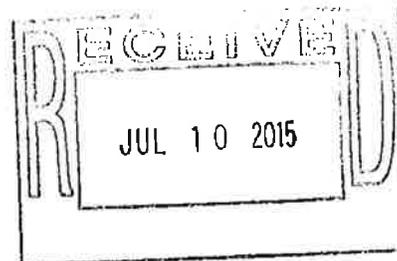
- ❖ Resolution No. 12-15 – A resolution seeking the adoption of the Lorain County Multijurisdictional Natural Hazard Mitigation Plan by the City of Lorain.
- ❖ Resolution No. 13-15 – A resolution accepting the Solid Waste Management Plan for the Lorain County Solid Waste Management District.

Should you require any additional information, please contact me at 440-204-2050.

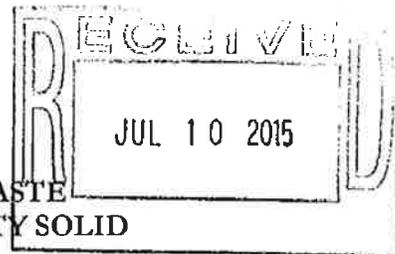
Sincerely,


Nancy A. Greer, CMC

Enc.



RESOLUTION NO. 13-15



A RESOLUTION ADOPTING THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT.

WHEREAS, the City of Lorain, Ohio is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan (hereinafter "Plan") in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, the City of Lorain, Ohio must decide whether it approves said Solid Waste Management Plan within ninety (90) days of receipt of the Final Draft Plan.

NOW THEREFORE BE IT RESOLVED BY THE COUNCIL OF THE CITY OF LORAIN, STATE OF OHIO:

SECTION I. The City of Lorain, Ohio approves the Lorain County Solid Waste Management District Plan, a copy of which is stored in the electronic files of the office of the Lorain City Clerk of Council and which plan is incorporated herein in its entirety.

SECTION II. That the Clerk of Lorain City Council is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, OH 44035.

SECTION III: That it is found and determined that all formal actions of this Council concerning and relating to the passage of this resolution were adopted in open meetings of this Council and that all deliberations of this Council were in meetings open to the public and in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

SECTION IV: That this resolution shall take effect and be in force from and after the earliest period allowed by law.

PASSED: July 6, 2015 _____
President of Council

ATTEST: Nancy Greer Clerk
July 6, 2015 _____
Mayor

I, NANCY A. GREER, CLERK OF COUNCIL, DO HEREBY CERTIFY THAT THE FOREGOING IS A TRUE AND ACCURATE COPY OF RES. NO. 13-15 PASSED ON THE 6 DAY OF July, 2015 BY COUNCIL AND TAKEN FROM THE RECORDS IN THE OFFICE OF THE CLERK. Nancy Greer
DATE 7-8-15 CLERK OF COUNCIL

RESOLUTION NO. R-15-05

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT.

WHEREAS, the City of Amherst is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, the City of Amherst, must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan; and

WHEREAS, the Recycling Committee of Amherst City Council, at its regular meeting on July 6, 2015, recommended that the matter be sent to the floor of Council for consideration.

NOW, THEREFORE, be it resolved by the Council of the City of Amherst, County of Lorain, and State of Ohio:

SECTION 1: That the City of Amherst approves the Lorain County Solid Waste Management District Solid Waste Management Plan.

SECTION 2: That the Clerk is hereby directed to send the Lorain County Solid Waste Management District a copy of this Resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

SECTION 3: That it is found and determined that all formal actions of this Council concerning and relating to the adoption of this Resolution were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action, were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

1st reading July 13, 2015
2nd reading _____
3rd reading _____

John S. Dietrich
John S. Dietrich, President of Council

PASSED July 13, 2015

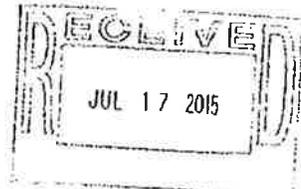
7-13-15
APPROVED

ATTEST *Anthony R. Pecora*

David A. Taylor
David A. Taylor, Mayor

Approved as to form by:
Anthony R. Pecora
Anthony R. Pecora, Director of Law

Filed with the Mayor: July 15, 2015



RESOLUTION NO. R-11-15

**A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE
LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT
AND DECLARING AN EMERGENCY**

WHEREAS, the City of Avon is located within the Lorain County Solid Waste Management District (LCSWMD); and

WHEREAS, the Lorain County Solid Waste Policy Plan Committee prepared and adopted a final draft of the 2016 - 2025 Solid Waste Management Plan (the Plan) in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the LCSWMD has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities within the District; and

WHEREAS, Council, having considered the Plan, finds that adoption of same to be in the best interests of the health, safety and welfare of the citizens of Avon as they look to the future and the challenges of solid waste disposal.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF AVON, LORAIN COUNTY, OHIO:

Section 1 - That the City of Avon hereby approves the 2016 - 2025 Lorain County Solid Waste Management Plan, a copy of which is attached hereto and incorporated herein as Exhibit A.

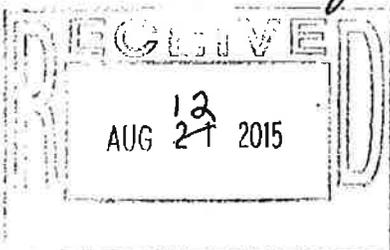
Section 2 - That the Clerk of Council is hereby directed to submit a certified copy of this resolution to the Lorain County Solid Waste Management District.

Section 3 - That it is found and determined that all formal actions of this Council concerning and relating to the passage of this resolution were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal actions were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

Section 4 - That this Resolution is hereby declared to be an emergency measure necessary for the preservation of the public peace, health, safety and welfare of the citizens of the City of Avon, the immediate emergency being the necessity to ratify the 2016 - 2025 Lorain County Solid Waste Management Plan as submitted by the Lorain County Solid Waste Management District; therefore, this Resolution shall be in full force and effect immediately upon its passage and approval by the Mayor.

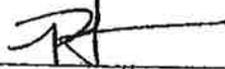
PASSED: August 10, 2015 DATE SIGNED: August 10, 2015

BY: [Signature]
Daniel C. Urban, Council President Pro Tem



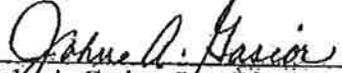
Resolution No. 11-15 (Con't)

DATE APPROVED BY THE MAYOR: August 11, 2015



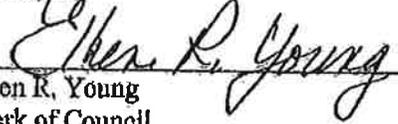
Bryan K. Jensen, Mayor

APPROVED AS TO FORM:



John A. Gastor, Law Director
City of Avon, Ohio

ATTEST:



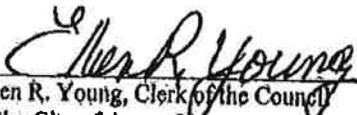
Ellen R. Young
Clerk of Council

Posted: August 11, 2015
In Five Places as
Provided by Council

Prepared By:
John A. Gastor, Esq.
Law Director

I, Ellen R. Young, Clerk of the Council of the City of Avon, Ohio, hereby certify this document to be a true and exact copy of Resolution No. R-11-15, passed by the Council of said City on August 10, 2015.

IN WITNESS WHEREOF, I have on this 11th day of August, 2015, affixed my signature and official seal.



Ellen R. Young, Clerk of the Council
of the City of Avon, Ohio



COUNCIL OFFICE

CITY OF AVON LAKE, OHIO

150 AVON BELDEN ROAD • AVON LAKE, OHIO 44012-1699

Telephone: (440) 930-4121

August 25, 2015

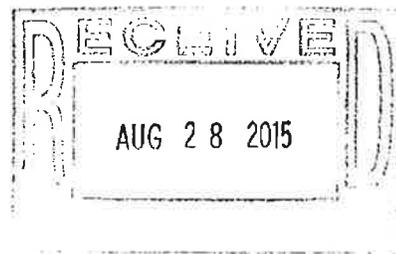
Keith Bailey, District Director
Lorain County Solid Waste Management District
226 Middle Avenue
Elyria, OH 44035-5641

Dear Mr. Bailey:

Enclosed is a certified copy of Avon Lake Ordinance No. 107-2015, adopting the Solid Waste Management Plan. This ordinance was approved by Council on August 24, 2015 and became effective immediately upon passage.

Very truly yours,

Barbara Dopp
Clerk of Council



BY: Mr. James

TEMP NO: 10545

ORDINANCE NO. 107-2015

AN ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT, AND DECLARING AN EMERGENCY.

WHEREAS, the City of Avon Lake is located within the Lorain County Solid Waste Management District, and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Section 3734.53, 3734.54, and 3734.55, and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District, and

WHEREAS, the City of Avon Lake must decide whether it approves of said Solid Waste Management Plan within 90 days of receipt of the Final Draft Plan, now therefore;

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF AVON LAKE,
STATE OF OHIO:

Section No. 1: That the City of Avon Lake approves the Lorain County Solid Waste Management District Solid Waste Management Plan.

Section No. 2: That the Clerk is hereby directed to send the District a copy of this ordinance to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

Section No. 3: That it is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were adopted in an open meeting of this Council and that all deliberations of this Council and any of its committees which resulted in such formal actions, were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

Section No. 4: That this Ordinance is hereby declared to be an emergency measure, the emergency being the necessity to adopt the Solid Waste Management Plan within the required time frame to

approve the management of solid waste, recycling, and waste reduction, thus for the public welfare. Therefore, this Ordinance shall go into immediate force and effect from and after its passage and approval by the Mayor.

PASSED: 8/24/15 Maureen Donnell
President of Council

POSTED: 8/28/15 8/25/15
Approved

ATTEST: Barbara Dopp Murray J. Zilka
Clerk of Council Mayor

I, Barbara Dopp, Clerk of Council of the City of Avon Lake, do hereby certify that the foregoing is a true and accurate copy of Ordinance/Resolution No. 107-2015 passed on the 24th day of August 2015 by said Council.

Barbara Dopp
Clerk of Council

CERTIFICATION

I HEREBY CERTIFY THAT THIS IS AN EXACT AND TRUE COPY OF Ordinance 2015-88

Forrest L. Bullocks 8-4-2015
FORREST L. BULLOCKS, CLERK OF COUNCIL DATE
CITY OF ELYRIA, OHIO

AUG 15 2:48 PM

Sponsored by:
Utilities, Safety &
Environment

ORDINANCE NO. 2015- 88

- D. Mitchell
- M. Craig
- L. Tanner
- J. Cerra
- B. Davis

AN ORDINANCE ADOPTING THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT.

WHEREAS, the City of Elyria is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, the City of Elyria must decide whether it approves of said Solid Waste Management Plan within ninety (90) days of receipt of the Final Draft Plan.

NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF ELYRIA, STATE OF OHIO;

SECTION 1: That the Lorain County Solid Waste Management Plan is hereby approved and adopted.

SECTION 2: That the Clerk of Council is hereby directed to send the Lorain County District a copy of this Ordinance to the attention of: Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

SECTION 3: That it is found and determined that all formal actions of this Council concerning and relating to the passage of this Ordinance were taken in meetings open to the public, in compliance with Ohio law.

SECTION 4: That this Ordinance be and hereby is declared to be an emergency measure, the emergency being the ninety day deadline to submit a copy of this Ordinance to the Lorain County showing City Council approval, and is necessary for the immediate preservation of public peace,

health, safety or welfare of the people of the City of Elyria; wherefore, this Ordinance shall be in full force and effect from and immediately after its passage and approval.

PASSED: 8/3/15 *Michael J. Votko III*
Michael J. Votko III, President

ATTEST *Forrest L. Bullocks* APPROVED: 8/3/15
Forrest L. Bullocks, Clerk

Holly C. Brinda
Holly C. Brinda, Mayor

DATE: 8-3-15

Approved as to form:
Scott F. Serazin 7-28-15
Scott F. Serazin, Law Director

CERTIFICATE OF PUBLICATION

I, THE UNDERSIGNED CLERK OF COUNCIL OF THE CITY OF ELYRIA, OHIO, HEREBY CERTIFY THAT THE FULL TEXT OF THE FOREGOING ORDINANCE NO. 2015- 88 WAS POSTED IN THREE PLACES WITHIN THE CITY AS DETERMINED BY COUNCIL, AND THAT SUCH PLACES WERE AS FOLLOWS: CITY HALL, CENTRAL FIRE STATION AND THE POLICE STATION.

DATED: 8/4/15

Forrest L. Bullocks
CLERK OF COUNCIL
CITY OF ELYRIA, OHIO

Date presented to the Mayor: 8/3/15

M. Kevin Big. Di Vincenzo
Second By: Leader

Resolution No. 15-029

**A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE
LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT
AND DECLARING AN EMERGENCY**

WHEREAS, the Village of Grafton is located within the Lorain County Solid Waste Management District.

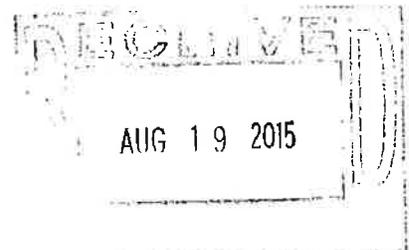
WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Village of Grafton must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Council of the Village of Grafton:

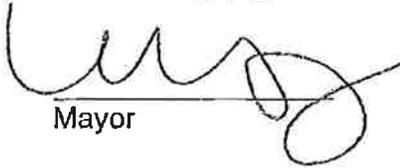
1. The Village of Grafton approves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Council concerning and relating to the passage of this resolution were adopted in an open meeting of this Council and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.
4. That this Resolution is hereby declared to be an emergency measure necessary for the preservation of the public peace, health, safety and welfare of the citizens of the Grafton, Ohio, the emergency being the immediate necessity of adopting local Resolutions to maintain the public peace and safety within the Village of Grafton, Ohio.





President of Council

August 18, 2015
Date Passed



Mayor

August 18, 2015
Date Approved

Inda B. Davis
Clerk-Treasurer

August 18, 2015
Date Attested

Approved as to Form:



Law Director



RESOLUTION 2015-843

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT AND DECLARING AN EMERGENCY.

WHEREAS, the Village of LaGrange is located within the Lorain County Solid Waste Management District, and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code 3734.53 3734.54 and 3734.55, and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the district, and

WHEREAS, the Village of LaGrange must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE VILLAGE OF LAGRANGE, LORAIN COUNTY, OHIO, THAT:

SECTION 1: The Village of LaGrange approves the Lorain County Solid Waste Management Plan.

SECTION 2: The Fiscal Officer is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

SECTION 3: It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Resolution were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public, in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

SECTION 4: This Resolution is and is hereby declared to be an emergency measure, the emergency being the immediate necessity to provide for the health, safety, welfare, and peace of the inhabitants of the Village of LaGrange by the approval of the Solid Waste Management Plan within the time limits prescribed by law and shall go into effect immediately upon its passage.

PASSED: August 27, 2015

SIGNED:

Kim E. Strauss, Mayor

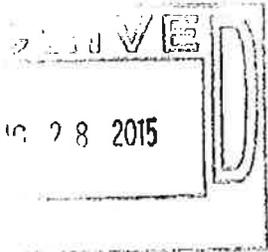
ATTEST:

Kimberly A. Fallon, Fiscal Officer

APPROVED AS TO FORM:

Jon D. Clark, Solicitor

AUG 28 2015



DATE: July 20, 2015
INTRODUCED BY: Mayor Gillock
REFERRED TO: _____
TEMPORARY NO: T 114-2015

1ST READING: August 3, 2015
2ND READING: August 17, 2015
3RD READING: September 8, 2015
ADOPTED: September 8, 2015

ORDINANCE NO. 5273-2015

**AN ORDINANCE ADOPTING THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT
DISTRICT FOR 2016-2025.**

WHEREAS, the City of North Ridgeville is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code §3734.53, 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the adopted final draft Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, the City of North Ridgeville must decide whether it approves of said final draft Solid Waste Management Plan within ninety days of receipt of the final draft plan.

NOW THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF NORTH RIDGEVILLE, LORAIN COUNTY, OHIO, THAT:

SECTION 1. The City of North Ridgeville approves the final draft Lorain County Solid Waste Management District Solid Waste Management Plan, a copy of which is located in the Clerk of Council's office.

SECTION 2. The Clerk of Council is hereby directed to send the District a copy of this Ordinance to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

SECTION 3. It is found and determined that all formal actions of this Council concerning and relating to the adoption of this Ordinance were conducted in an open meeting of this Council, and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public in accordance with all legal requirements, including §121.22 of the Ohio Revised Code.

SECTION 4. This Ordinance shall take effect and be in full force from and after the earliest period allowed by law.

PASSED: September 8, 2015



PRESIDENT OF COUNCIL

ATTEST: Jan D. Peet
CLERK OF COUNCIL

APPROVED: 9/16/15



ACTING MAYOR

CITY OF OBERLIN, OHIO

RESOLUTION No. R15-08

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN UPDATE FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT AND DECLARING AN EMERGENCY

WHEREAS, the City of Oberlin is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County Solid Waste Management Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the 2016-2025 Draft Solid Waste Management Plan Update dated April, 2015 for ratification to each of the legislative authorities of the District; and

WHEREAS, the City of Oberlin must decide whether to approve the 2016-2025 Draft Solid Waste Management Plan within ninety days of receipt of the Plan.

NOW, THEREFORE, BE IT RESOLVED by the Council of the City of Oberlin, County of Lorain, State of Ohio, 5/7ths of all members elected thereto concurring:

SECTION 1. That the Oberlin City Council hereby approves the 2016-2025 Draft Solid Waste Management Plan Update.

SECTION 2. That the City Clerk is hereby authorized and directed to send a copy of this resolution to the Lorain County Solid Waste Management District to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, OH 44035.

SECTION 3. It is hereby found and determined that all formal actions of this Council concerning or relating to the adoption of the Resolution were adopted in an open meeting of this council and that all deliberations of this Council and of any of its committees that resulted in such formal action were in meetings open to the public in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4. That this Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, safety and welfare of the citizens of Oberlin, Ohio, or to provide for the usual daily operation of a municipal department, to wit: to allow for the submission of said resolution to the Lorain County Solid Waste Management District within the ninety day approval period” and shall take effect immediately upon passage.

Pg.2 – Resolution No. 15-08 CMS

PASSED: 1st Reading: September 8, 2015 (E)

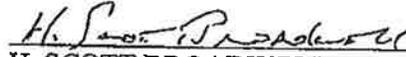
2nd Reading: _____

3rd Reading: _____

ATTEST:



BELINDA B. ANDERSON, MMC
CLERK OF COUNCIL



H. SCOTT BROADWELL
PRESIDENT OF COUNCIL

POSTED: 09/09/2015

EFFECTIVE DATE: 09/08/2015

ORDINANCE NO. 2507

**AN ORDINANCE TO ADOPT THE
SOLID WASTE MANAGEMENT PLAN FOR THE
LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT,
AND DECLARING AN EMERGENCY.**

WHEREAS, the Village of Sheffield is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, the Village of Sheffield must decide whether it approves of said Solid Waste Management Plan within ninety (90) days of receipt of the Final Draft Plan.

NOW, THEREFORE, BE IT RESOLVED by Council of the Village of Sheffield:

Section 1. The Village of Sheffield approves the Lorain County Solid Waste Management District Solid Waste Management Plan.

Section 2. The Clerk is hereby directed to send the District a copy of this Ordinance to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

Section 3. It is found and determined that all formal actions of this Council concerning and relating to the passage of this Ordinance were adopted in an open meeting of this Council, and that all deliberations of this Council and of any of its committees that results in such formal actions were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

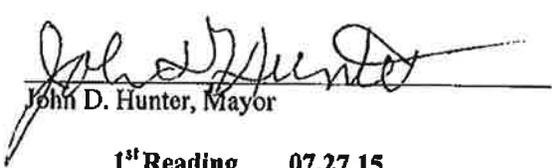
Section 4. This Ordinance is hereby declared to be an emergency measure, the emergency being the need to adopt the Solid Waste Management Plan for the Lorain County Solid Waste Management District, and for the preservation of the public peace, health, safety and welfare of the citizens of the Village of Sheffield; therefore, this Ordinance shall be in full force and effect immediately upon its passage and approval by the Mayor.

PASSED 7-27-15


Timothy J. Pelcic, Clerk-Treasurer

Approved as to form:

Thomas J. Smith, SOLICITOR


John D. Hunter, Mayor

1 st Reading	<u>07.27.15</u>
2 nd Reading	<u> </u>
3 rd Reading	<u> </u>

EMERGENCY – July 14, 2015

COUNCIL NO. 031
SPONSOR: MAYOR
RESOLUTION NO. 31-15

A RESOLUTION APPROVING AND ADOPTING THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT AND THE DECLARING OF AN EMERGENCY

WHEREAS, the City of Sheffield Lake is located within the Lorain County Solid Waste Management District; and,

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and,

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and,

WHEREAS, the City of Sheffield Lake must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, THEREFORE, be it resolved by the Council of the City of Sheffield Lake, Lorain County, State of Ohio, that:

- Section 1. The City of Sheffield Lake hereby approves the Lorain County Solid Waste Management District Solid Waste Management Plan.
- Section 2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey Director, Lorain County Solid Waste Management District 226 Middle Avenue, Elyria, Ohio 44035.
- Section 2. That it is found and determined that all formal actions of this Council concerning and relating to the adoption of this Resolution were adopted in an open meeting of this Council, and that all deliberations of the Council and any of its committees which resulted in such formal

actions, were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

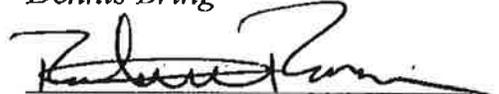
Section 3. That this Resolution is hereby declared to be an emergency measure necessary for the immediate preservation of the public peace, property, health, safety and welfare in the City the emergency being the immediate necessity of approving and adopting the Solid Waste Management Plan for the Lorain County Solid Waste Management District.

PASSED THIS 14 DAY OF July, 2015.

	Yea	Nay	NV
Leanna Stark	✓		
Kerry McCullough	✓		
Steve Kovach	✓		
Mark Erdei	✓		
Alan Smith			
Bill Wtulich	✓		
Mark Cizl	✓		


MAYOR

Dennis Bring

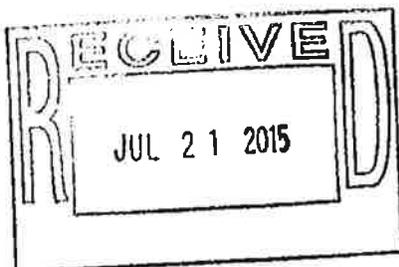

PRESIDENT OF COUNCIL

Rick Rosso


CLERK OF COUNCIL

Kay Fantauzzi

I, Kay Fantauzzi, duly appointed Clerk of Council of Sheffield Lake DO HEREBY CERTIFY that this is a true and exact copy of Resolution# 31-15.
PASSED July 14, 2015.



RECORD OF RESOLUTIONS

Dayton Legal Blank Co. Form No. 30045

Resolution No. 16048 605

Passed 8-10

2015
YEAR

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT.

WHEREAS, the Village of South Amherst is located within the Lorain County Solid Waste Management District; and

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55; and

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, the Village of South Amherst must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE VILLAGE OF SOUTH AMHERST, LORAIN COUNTY, STATE OF OHIO THAT:

SECTION 1: The Council of the Village of South Amherst hereby approves the Lorain County Solid Waste Management District Solid Waste Management Plan.

SECTION 2: The Fiscal Officer is hereby directed to send the District a copy of this Resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

SECTION 3: It is found and determined that all formal actions of this Council and relating to the adoption of this Resolution were in an open meeting of this Council, and that all deliberations of this Council and any of its committees that resulted in such formal action were in meetings open to the public, in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: That this Resolution shall take effect and be in force from and after the earliest period allowed by law.

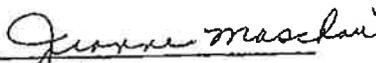
First Reading: 7-27-2015

Second Reading: 8-10-2015

PASSED: 8-24-2015


Barbara Becker, Mayor

ATTEST:


Fiscal Officer

RECORD OF RESOLUTIONS

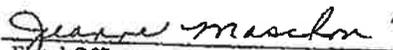
Dayton Legal Blank Co., Form No. 30015

Resolution No. 605

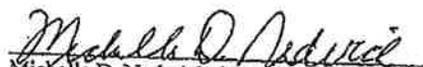
Passed 8-24-2015

YEAR

I, Jeanne Maschari, the Fiscal Officer of the Village of South Amherst, certify there is no newspaper of general circulation published in the municipality and the publishing of this Resolution No. 605 was made by posting true copies thereof in at least five of the most public places in the said Village, determined by Council, for a period of not less than fifteen (15) days, following the passage.

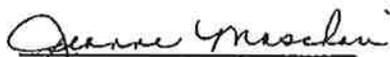

Fiscal Officer

APPROVED AS TO FORM:


Michelle D. Nedwick, Law Director

SA\2015.resolution.adoptingsolid.waste.management.plan

I, Jeanne Maschari, the duly appointed Fiscal Officer for the Village of South Amherst do hereby certify that this is a true copy of Resolution # 605 that was passed on August 24th, 2015.


Jeanne Maschari
Fiscal Officer

September 9, 2015

RECORD OF ORDINANCES

BARRETT BROTHERAL PUBLISHERS

Form 6220S

Ordinance No. 2015R-7 Passed 7-13, 15

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT.

WHEREAS, the City of Vermilion is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54, and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the City of Vermilion must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Vermilion, Counties of Erie and Lorain, State of Ohio:

SECTION 1: The Vermilion City Council approves the Lorain County Solid Waste Management District Solid Waste Management Plan.

SECTION 2: The Clerk of Council is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

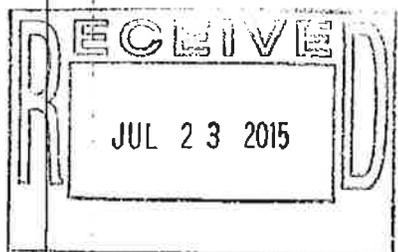
SECTION 3: This Council finds and determines that all formal actions of this Council concerning and relating to the passage of this Resolution were adopted in an open meeting of this Council and that all deliberations of this Council and of any committees that resulted in those formal actions were in meetings open to the public and in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: That this Resolution is declared to be an emergency for the public peace, health, and safety of the City; wherefore, this Resolution shall take effect immediately upon its passage and approval of the Mayor, providing it meets the statutory requirements for passage; otherwise, it shall take effect and be enforced from and after the earliest period allowed by law.

PASSED: 7/13, 2015 [Signature]
Steven Herron, President of Council

ATTEST: 7/13, 2015 [Signature]
Gwen Fisher, Certified Municipal Clerk

APPROVED: 7-13, 2015 [Signature]
Eileen Bulan, Mayor



I HEREBY CERTIFY THIS TO BE A TRUE AND ACCURATE COPY.
[Signature]
CLERK OF COUNCIL
7-17-15
DATE

RECORD OF ORDINANCES

BARNETT BROTHERS, PUBLISHERS

Form 8220S

Ordinance No. 2015R-7

Passed 7-13, 15

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT.

WHEREAS, the City of Vermilion is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54, and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the City of Vermilion must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, THEREFORE BE IT RESOLVED by the Council of the City of Vermilion, Counties of Erie and Lorain, State of Ohio:

SECTION 1: The Vermilion City Council approves the Lorain County Solid Waste Management District Solid Waste Management Plan.

SECTION 2: The Clerk of Council is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.

SECTION 3: This Council finds and determines that all formal actions of this Council concerning and relating to the passage of this Resolution were adopted in an open meeting of this Council and that all deliberations of this Council and of any committees that resulted in those formal actions were in meetings open to the public and in compliance with all legal requirements, including Section 121.22 of the Ohio Revised Code.

SECTION 4: That this Resolution is declared to be an emergency for the public peace, health, and safety of the City; wherefore, this Resolution shall take effect immediately upon its passage and approval of the Mayor, providing it meets the statutory requirements for passage; otherwise, it shall take effect and be enforced from and after the earliest period allowed by law.

PASSED: 7/13, 2015

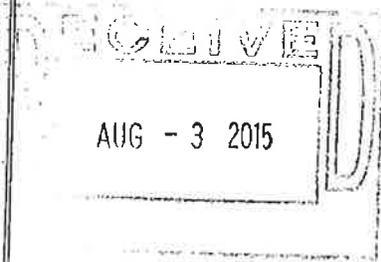
Steven Herron
Steven Herron, President of Council

ATTEST: 7/13, 2015

Gwen Fisher
Gwen Fisher, Certified Municipal Clerk

APPROVED: 7-13, 2015

Eileen Bulan
Eileen Bulan, Mayor



I HEREBY CERTIFY THIS TO BE A TRUE AND ACCURATE COPY.

Gwen Fisher
CLERK OF COUNCIL
7/27/15
DATE

VILLAGE OF WELLINGTON
RESOLUTION NO. 2015-34

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE
LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, the Village of Wellington is located within the Lorain County Solid Waste Management District.

WHEREAS, The Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, The Village of Wellington must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Council of Wellington:

1. The Village of Wellington approves/disapproves the Lorain County Solid Waste management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Council concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Council and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

1st Reading August 3, 2015

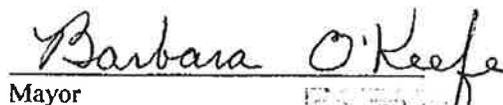
2nd Reading August 17, 2015

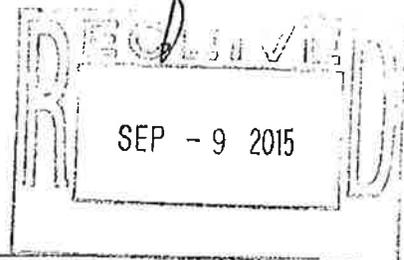
3rd Reading September 8, 2015

PASSED: September 8, 2015

ATTEST:


Clerk of Council


Mayor



Resolution Number 7/9/15

Amherst Township Resolution Regarding:

ADOPTION OF THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

The Board of Trustees of Amherst Township, Lorain County, Ohio met in regular session on the 28th day July 2015 at the Amherst Township Hall with the following members present: (Presence indicated by a ✓ mark)

- Mr. Dennis Abraham
- Mr. Neil Lynch
- Mr. David Urig

Mr. URIG moved to adopt the following resolution:

Whereas, Amherst Township is located within the Lorain County Solid Waste Management District, and

Whereas, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55, and

Whereas, the Lorain County Solid Waste Management District has provided a copy of the Draft Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District, and

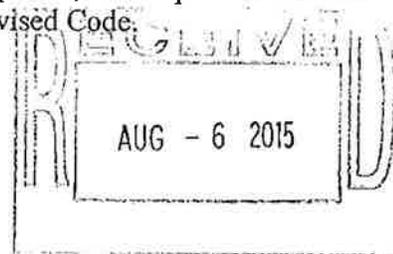
Whereas, Amherst Township Board of Trustees must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan, such approval deadline being September 9, 2015.

Now, therefore be it resolved by the Trustees of the Township of Amherst, State of Ohio:

Section 1: Amherst Township APPROVES (approves/~~disapproves~~) the Lorain County Solid Waste Management District Solid Waste Management Plan.

Section 2: The Fiscal Officer is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District 226 Middle Ave. Elyria, Ohio 44035.

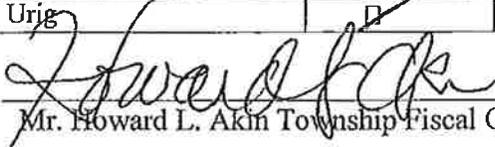
Section 4: It is found and determined that all formal actions of the Board of Township Trustees concerning and relating to the adoption of this Resolution were adopted in an open meeting, and that all deliberations of the Trustees and of any of its committees that resulted in such formal action, were in meetings open to the public, in compliance with all legal requirements, including Sections 121.22 of the Ohio Revised Code.



Resolution Number 7/9/15

Mr. Abraham seconded the Resolution, and the roll being called upon its adoption, the vote resulted as follows:

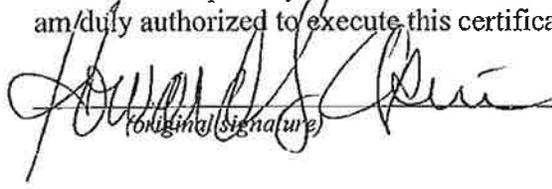
Trustee	Yes (✓)	No (✓)	Abstain (✓)
Mr. Dennis Abraham	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mr. Neil Lynch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mr. David Urig	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Adopted 
Mr. Howard L. Akin Township Fiscal Officer

July 28, 2015
Date

CERTIFICATE OF RECORDING OFFICER

I, the undersigned, hereby certify, that the foregoing is a true and correct copy of the resolution adopted by the Board of Trustees held on the 28th day of July, 2015 and that I am/duly authorized to execute this certificate


(original signature)

Amherst Township Fiscal officer
(title)

Resolution/Ordinance No. _____
**A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT**

WHEREAS, the BRIGHTON TOWNSHIP (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

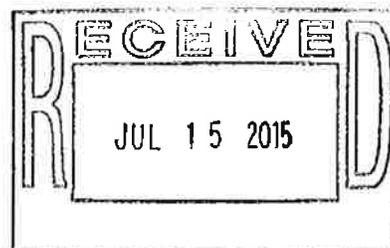
WHEREAS, the BRIGHTON TOWNSHIP (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the TRUSTEES (commissioners, council or trustees) of BRIGHTON TWP (county, city, village, township):

1. The BRIGHTON TWP (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this BOARD (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this BOARD (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: APPROVED

Signature of Appropriate Officer: [Signature] Date: 7-13-15



Resolution/Ordinance No. _____
A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, ~~the~~ Brownhelm Township (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

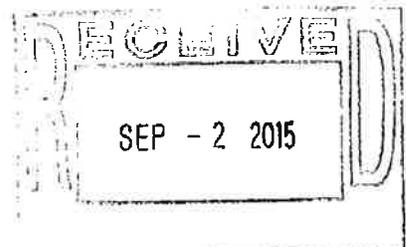
WHEREAS, ~~the~~ Brownhelm Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the trustees (commissioners, council or trustees) of Brownhelm Twp (county, city, village, township):

1. The Brownhelm Twp (county, city, village, township) approves disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of ~~this~~ ^{these} trustees (Board, council or trustees) concerning and relating to the passage of this resolution ordinance were adopted in an open meeting of ~~this~~ ^{the} trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: Approved

Signature of Appropriate Officer: Jim Butner Date: 9-1-15



Resolution/Ordinance No. _____
A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, the Camden Township (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Camden (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Trustees (commissioners, council or trustees) of Camden (county, city, village, township):

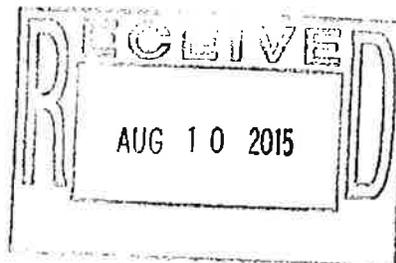
1. The township (county, city, village, township) ~~approves~~/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Board (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: _____

Signature of Appropriate Officer: Just D. Risty

Date: 7-20-15

Decided cannot approve or disapprove due to the amount & complicated & technical nature of the material.





CARLISLE TOWNSHIP
Lorain County, OH
RESOLUTION NO. 2015-31

A Resolution to Adopt the Solid Waste Management Plan for the Lorain County Solid Waste Management District

Be it resolved by the Board of Trustees of Carlisle Township, Lorain County, OH, that:

Trustee Taylor moved to adopt the following:

Whereas, Carlisle Township is located within the Lorain County Solid Waste Management District; and

Whereas, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 3734.55; and

Whereas, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

Whereas, the Carlisle Township Board of Trustees must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan; and

NOW, THEREFORE, be it resolved by Carlisle Township Board of Trustees:

1. The Carlisle Township Board of Trustees approves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, OH 44035.

BE IT FURTHER RESOLVED by Carlisle Township Board of Trustees, That it is found and determined by the Board of Trustees of Carlisle Township, Lorain County that the requirement of reading a proposed resolution on two separate days, pursuant to O.R.C. 504.10 be waived for proposed Resolution No.2015-31 in accordance with O.R.C. 504.10 and, therefore, that the Board of Trustees be authorized to adopt proposed Resolution No.2015-31 after its first reading.

BE IT FURTHER RESOLVED, that it is found and determined that all formal actions of Board of Trustees of Carlisle Township concerning and relating to the adoption of this resolution were adopted in an open meeting of the Carlisle Township Board of Trustees, and that all deliberations of the Board of Trustees and any of its committees that resulted in such formal action, were in meetings open to the public in compliance with all legal requirements including Section 121.22 of the Revised Code of Ohio.

Seconded by WRIGHT, vote resulted as follows:

Trustee Berry A. Taylor aye Trustee Robert C. White _____ Trustee James L. Wright aye

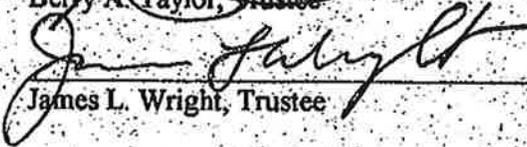
Adopted on this 20th day of August 2015

Carlisle Township Board of Trustees:

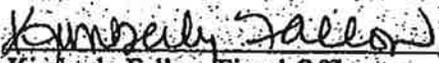
Robert C. White, Chairman



Berry A. Taylor, Trustee

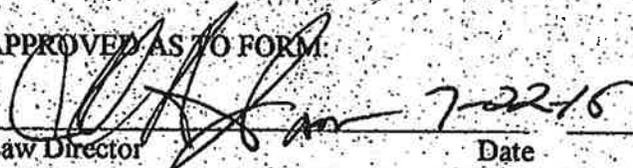


James L. Wright, Trustee

Attested: 

Kimberly Fallon, Fiscal Officer

APPROVED AS TO FORM



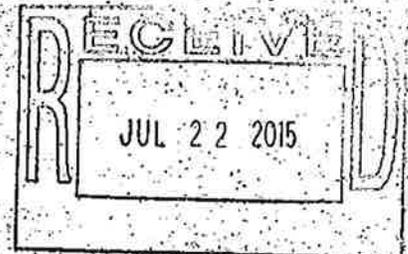
Law Director

7-22-15

Date

First Reading _____
Second Reading _____
Passed 7/2015

WJO



Resolution/Ordinance No. 2015-122
A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, the TOWNSHIP OF COLUMBIA (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

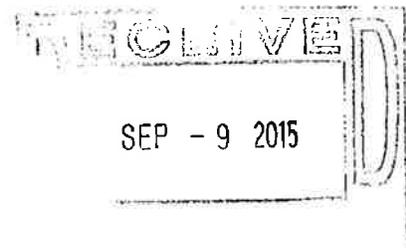
WHEREAS, the TOWNSHIP OF COLUMBIA (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the TRUSTEES (commissioners, council or trustees) of COLUMBIA TWP (county, city, village, township):

1. The TOWNSHIP (county, city, village, township) approves/~~disapproves~~ the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this ~~BOARD OF TRUSTEES~~ (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this TRUSTEES (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: APPROVED

Signature of Appropriate Officer: Michael J. Smith Date: 9/8/2015



Resolution/Ordinance No. 2015-7-21-8
**A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT**

WHEREAS, the Eaton Township (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

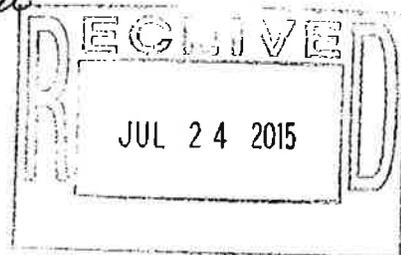
WHEREAS, the Eaton Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

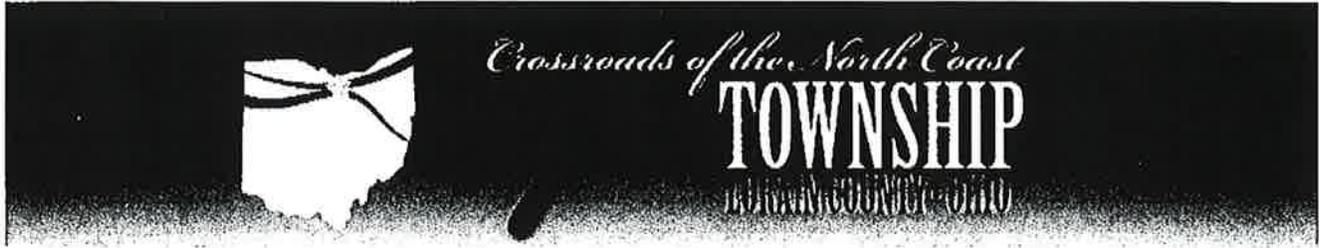
NOW, Therefore, Be It Resolved by the Trustees (commissioners, council or trustees) of Eaton Township (county, city, village, township):

1. The Eaton Township (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: Approved

Signature of Appropriate Officer: Matthew A. Ngata Date: 7/21/15
*Chairman
Eaton Twp. Trustee*





ELYRIA TOWNSHIP BOARD OF TRUSTEES

RESOLUTION NO. 080315-01

A RESOLUTION to adopt the 2016 thru 2025 Lorain County Solid Waste Management Plan

WHEREAS, the Elyria Township is located within the Lorain County Solid Waste Management District; and,

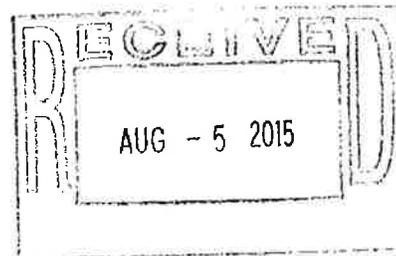
WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54, and 3734.55; and,

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and,

WHEREAS, the Elyria Township must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW THEREFORE BE IT RESOLVED by the Elyria Township, County of Lorain, State of Ohio, Board of Trustees, that:

1. Approves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Fiscal Officer is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of the Elyria Township Board of Trustees concerning and relating to the passage of this resolution were adopted in an open meeting of the Board and of any of its committees that resulted in such formal actions were in meetings open to the public held at the Elyria Township Service Complex, 41416 Griswold Road, Elyria, Ohio 44035, in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.



William Holtzman, Trustee
6874 Murray Ridge Road
Elyria, OH 44035
440.324.7758

Rob Scheithauer, Trustee
7685 West Ridge Road
Elyria, OH 44035
440.322.3892

Rick Hulman, Trustee
42000 Debra Drive
Elyria, OH 44035
440.324.6790

Mr. HOLTZMAN made a motion to adopt the resolution. Motion was seconded by Mr. HUTMAN.

Roll Call as follows:

<u>Robert Scheithauer</u> Robert Scheithauer, Chairman	<u>YES.</u>
<u>Richard Hutman</u> Richard Hutman, Vice-Chairman	<u>YES</u>
<u>William Holtzman</u> William Holtzman, Trustee	<u>Yes.</u>

Adopted on the 3rd day of August, 2015.

Resolution/Ordinance No. 20150811-09
**A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT**

WHEREAS, the TOWNSHIP OF GRAFTON (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

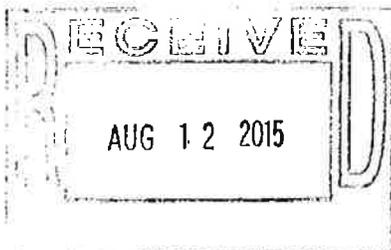
WHEREAS, the TOWNSHIP OF GRAFTON (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the TRUSTEES (commissioners, council or trustees) of GRAFTON (county, city, village, township):

1. The TWP. TRUSTEES (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this BOARD OF (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this BOARD OF (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: APPROVED

Signature of Appropriate Officer: Jean Haight Date: 8-11-2015
Chairman



Resolution/Ordinance No. 2015-8-1
**A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT**

WHEREAS, the HENRIETTA TOWNSHIP (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

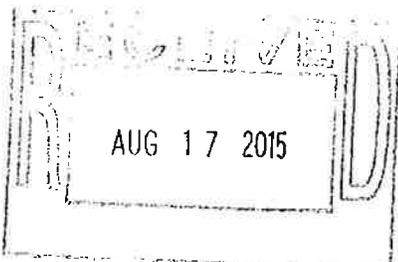
WHEREAS, the HENRIETTA TOWNSHIP (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Trustees (commissioners, council or trustees) of HENRIETTA (county, city, village, township):

1. The TOWNSHIP (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board of Trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: Approved

Signature of Appropriate Officer: Joseph Suber Final Date: 8/13/2015
Officer



 ORIGINAL

COPY

Resolution/Ordinance No. 2015-33
A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, the Huntington (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

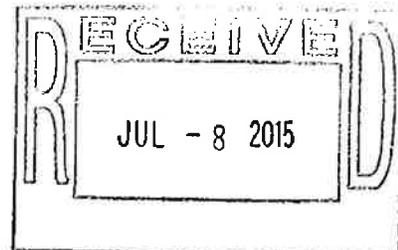
WHEREAS, the Huntington (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Trustees (commissioners, council or trustees) of Huntington (county, city, village, township):

1. The Huntington (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: 7-6-2015

Signature of Appropriate Officer: Mary Beth Dirckx Date: 7-6-15



Resolution/Ordinance No. 2015-08-20
A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, the New Russia Township (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the New Russia Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the Trustees (commissioners, council or trustees) of New Russia Township (county, city, village, township):

1. The Township (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: Approved

Signature of Appropriate Officer: Patricia M. Bunker Date: 8.18.2015

RECORD OF RESOLUTIONS

Resolution No. 2015.07.07.01 Passed July 7, 2015

PENFIELD TOWNSHIP

41012 St. Rt. 18
Wellington, OH 44090
(440) 315-5607 Fax: (440) 647-5744
www.penfieldtownship.com

Richard Conrad Trustee
Lloyd Gordon Trustee

Duane Johnson Trustee
Vicki Denes Fiscal Officer

PENFIELD TOWNSHIP BOARD OF TRUSTEES PENFIELD TOWNSHIP, LORAIN CO., OHIO

A Resolution to adopt the solid waste management plan for the Lorain County Solid Waste Management District

WHEREAS; Penfield Township is located within the Lorain County Solid Waste Management District, and

WHEREAS; the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53, 3734.54 and 3734.55, and

WHEREAS; the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the district, and

WHEREAS; Penfield Township must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, THEREFORE, BE IT RESOLVED by the Trustees of the Township of Penfield, State of Ohio:

1. The Township approves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Fiscal Officer is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Ave., Elyria, OH 44035
3. That it is found and determined that all formal actions of this Trustee Board concerning and relating to the passage of this resolution were adopted in an open meeting of this Trustee Board and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirement including Sections 121.22 of the Ohio Revised Code.

Richard Conrad:

Richard Conrad

Duane Johnson:

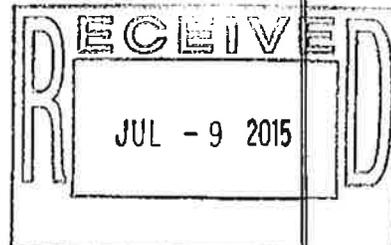
Duane Johnson

Lloyd Gordon:

Lloyd Gordon

Date adopted: July 7, 2015

Vicki Denes
Vicki Denes, Fiscal Officer



PITTSFIELD TOWNSHIP

Lorain County, Ohio

46333 State Rt. 303

Wellington, Ohio 44090

Trustees

Forrest Mohrman, Chairman

Mark Diedrick

Mark McConnell

Fiscal Officer

Tari Diedrick

440-774-8503 Office

440-774-7223 Garage

Resolution of the Pittsfield Township Board of Trustees

Approved at the Meeting of

August 3, 2015

#15-130 **APPROVAL OF THE LORAIN COUNTY SOLID WASTE
MANAGEMENT PLAN FOR 2016-2025**

Motion was made by Mark Diedrick and seconded by Mark McConnell to approve the Lorain County Solid Waste Management Plan for the years 2016-2025

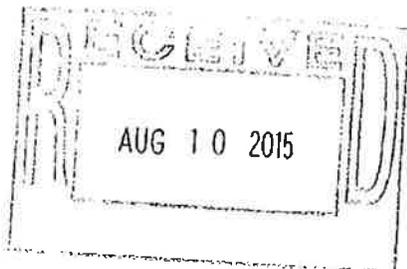
The motion passed on a voice vote.

Tari Diedrick

Tari Diedrick

Fiscal Officer

Pittsfield Township



CERTIFICATE

State of Ohio, Lorain County

I, the undersigned Fiscal Officer of Pittsfield Township, Lorain County, Ohio, certify that the foregoing Resolution No. 15-130 is taken and copied from the record of proceedings of the township, and that it has been compared by me with the resolution on the record and is a true copy.

8/3/2015


Tari Diedrick
Tari Diedrick

Resolution/Ordinance No. _____
**A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT
PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT**

WHEREAS, the Rochester Township (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Rochester Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

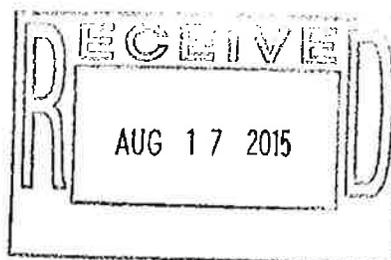
NOW, Therefore, Be It Resolved by the trustees (commissioners, council or trustees) of Rochester Twp (county, city, village, township):

1. The Rochester Twp (county, city, village, township) approves disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of ~~this~~ ^{these} trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of ~~this~~ ^{these} trustees (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: 8-10-15

Signature of Appropriate Officer: James Brady Date: 8-10-15

Amy Szmania
Jerry Cowie
Adam Mourtton



Resolution 026-2015

Resolution/Ordinance No. 026-2015

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, the Sheffield Township (sounty, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Sheffield Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

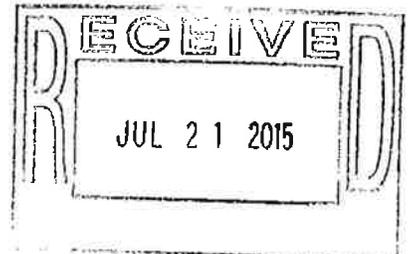
NOW, Therefore, Be It Resolved by the Board of (XXXXXXXXXXXXXXXXXXXXXXXXX trustees) of Sheffield (county, city, village, township):

1. The Board of Sheffield (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Board of (Board, ~~XXXXXX~~ trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board of (Board, ~~XXXXXX~~ trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: Approved 07-20-2015 **

Signature of Appropriate Officer: Patricia Echko Date: 07-20-2015
Patricia Echko, Fiscal Officer

**Motion: made by Trustee Mihalcik, 2nd by Trustee Parsons. A roll call vote:
Parons- Aye; Mihalcik- Aye; Newsome- Aye Resoltuion Passed



Resolution/Ordinance No. 15-086

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT

WHEREAS, the township (county, city, village, township) is located within the Lorain County Solid Waste Management District.

WHEREAS, the Lorain County Solid Waste Management District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.

WHEREAS, the Lorain County Solid Waste Management District has provided a copy of the Adopted Final Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

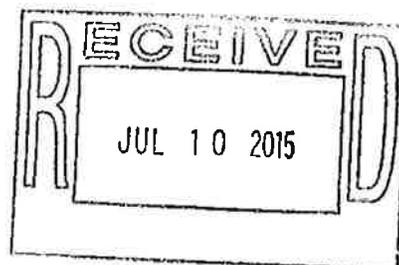
WHEREAS, the Wellington Township (name of county, city, village, township) must decide whether it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.

NOW, Therefore, Be It Resolved by the trustees (commissioners, council or trustees) of Wellington (county, city, village, township):

1. The Wellington Township (county, city, village, township) approves/disapproves the Lorain County Solid Waste Management District Solid Waste Management Plan.
2. The Clerk is hereby directed to send the District a copy of this resolution to the attention of Keith Bailey, Director, Lorain County Solid Waste Management District, 226 Middle Avenue, Elyria, Ohio 44035.
3. That it is found and determined that all formal actions of this Trustees (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Trustee (Board, council or trustees) and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved: Approved

Signature of Appropriate Officer: W. Howard Dixon Date: 7-07-2015





APPENDIX D

IDENTIFICATION OF CONSULTANTS RETAINED FOR PLAN PREPARATION



Identification of Consultants for Plan Preparation



Consulting Firm: *GT Environmental, Inc.*
635 Park Meadow Road
Suite 112
Westerville, Ohio 43081

Project Manager: *Michael Greenberg*
Principal Consultant
(614) 794-3570
(614) 899-9255 Fax

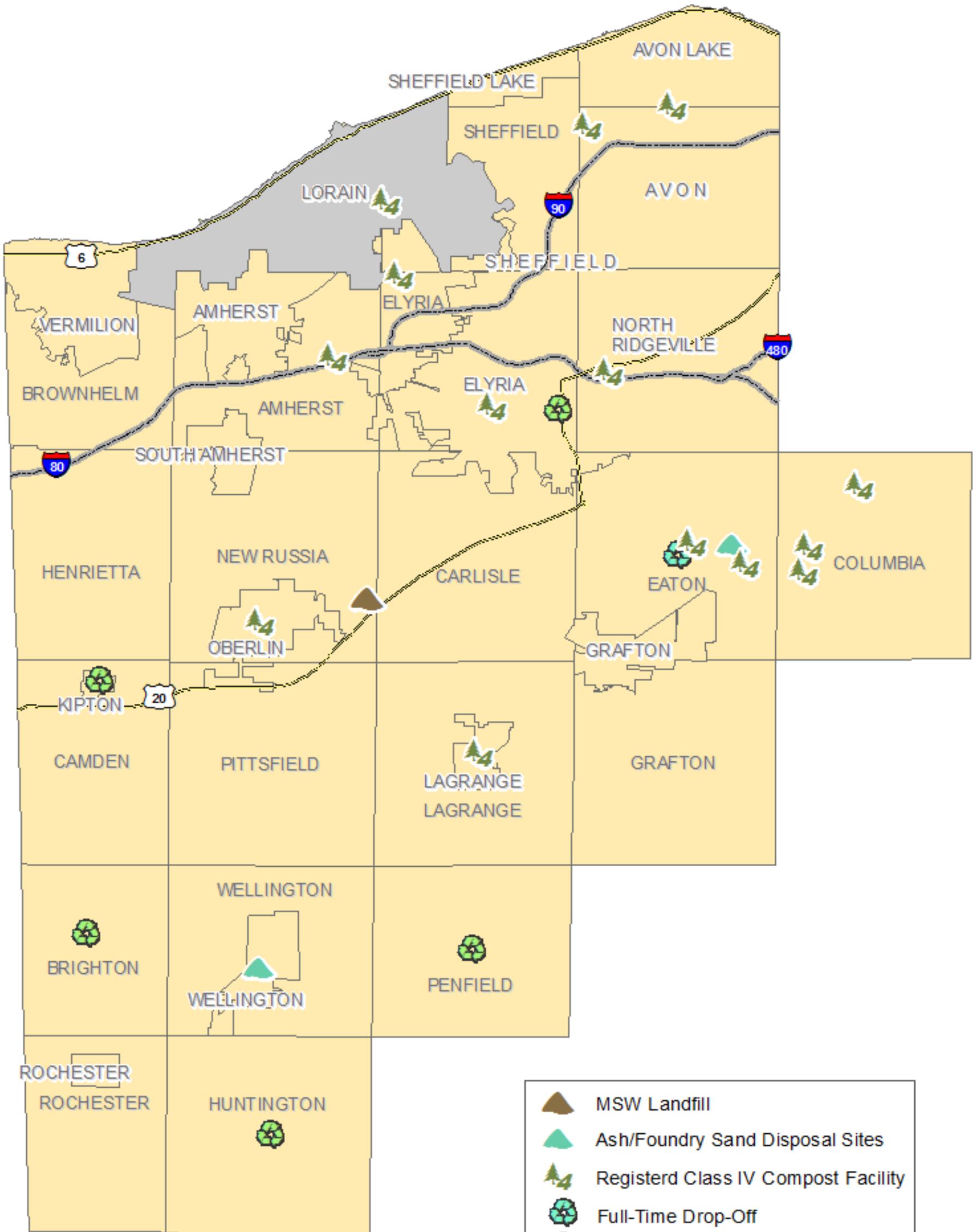


APPENDIX E

DISTRICT MAP



District Map



-  MSW Landfill
-  Ash/Foundry Sand Disposal Sites
-  Registered Class IV Compost Facility
-  Full-Time Drop-Off
-  Part-Time Drop-Off
-  PAYT/NS Curbside Recycling
-  Blue Bag Recycling



APPENDIX F

INDUSTRIAL SECTOR SURVEY RESULTS



Appendix F
Lorain County Solid Waste Management District
Amount of Industrial Waste Recycled by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	0.00	0.00	0.00	0	0	0	0.00	2.50	0	0.00	0.00	0.00	0.00	90.90	0.00	13.45	779.20	348.30	2,066.00	3,300.35
Paper	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	9.15	5.13	0.00	0.00	261.10	121.00	17.70	414.33
Cloth & Fabrics	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.37
Wood	0.00	0.00	0.00	0	0	0	0.00	50.00	0	0.00	0.00	0.00	3,010.82	52.50	0.00	0.00	874.90	63.18	51.08	4,102.73
Ferrous Metals	0.00	0.00	0.00	0	0	0	0.00	0.00	0	4.00	0.00	0.00	59,450.20	2,240.97	304.87	0.00	817.50	286.27	1,380.58	64,484.39
Non-Ferrous Metals	0.00	0.00	0.00	0	0	0	0.00	6.50	0	0.00	0.00	0.00	911.30	266.40	45.32	0.00	33.30	38.30	40.01	1,341.13
Glass	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00
Plastic	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	27.35	0.00	0.00	0.00	88.00	47.00	44.00	206.35
Rubber/Tires	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.00	3.13	5.23
Food	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.80	1.76	0.00	3.04
Non-Exempt Foundry Sand	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	15,377.00	0.00	0.00	0.00	0.00	0.00	0.00	15,377.00
Commingled	0.00	0.00	0.00	0	0	0	0.00	9.90	0	0.00	0.00	0.00	0.00	153.00	91.00	0.00	0.00	14.00	0.00	267.90
Yard Waste	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Misc.	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0.00	0.00	0.00	720	16	0	0.00	0.00	298	51	1,084.77
Total	0.00	0.00	0.00	0.50	0.00	0.00	0.00	68.90	0.00	4.00	0.00	0.00	79,506.30	2,824.66	441.19	13.45	2,856.90	1,217.85	3,654.86	90,588.59

Source(s) of information:
CY 2013 Industrial Survey Responses

Appendix F
Lorain County Solid Waste Management District
Amount of Industrial Waste Generated by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	0	0	0	0	0	0	0	3	0	0	0	0	0	91	0	13	779	348	2,066	3,300
Paper	0	0	0	0	0	0	0	0	0	0	0	0	9	5	0	0	261	121	18	414
Cloth & Fabrics	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wood	0	0	0	0	0	0	0	50	0	0	0	0	3,011	53	0	0	875	63	51	4,103
Ferrous Metals	0	0	0	0	0	0	0	0	0	4	0	0	59,450	2,241	305	0	818	286	1,381	64,484
Non-Ferrous Metals	0	0	0	0	0	0	0	7	0	0	0	0	911	266	45	0	33	38	40	1,341
Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Plastic	0	0	0	0	0	0	0	0	0	0	0	0	27	0	0	0	88	47	44	206
Rubber/Tires	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	5
Food	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Batteries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	3
Non-Exempt Foundry Sand	0	0	0	0	0	0	0	0	0	0	0	0	15,377	0	0	0	0	0	0	15,377
Commingled	0	0	0	0	0	0	0	10	0	0	0	0	0	153	91	0	0	14	0	268
Yard Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Misc.	0	0	0	0	0	0	0	0	0	0	0	0	720	16	0	0	0	298	53	1,087
General Solid Waste	0	0	0	6	0	0	0	153	0	0	0	0	938	326	51	0	0	140	108	1,723
Stone/Clay/Sand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	7	0	0	0	223	0	4	0	0	80,444	3,151	492	13	2,857	1,358	3,765	92,314

Source(s) of information:
CY 2013 Industrial Survey Responses

Appendix F
Lorain County Solid Waste Management District
Amount of Industrial Waste Disposed by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Type of Waste	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	Total
Cardboard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cloth & Fabrics	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ferrous Metals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Ferrous Metals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Plastic	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rubber/Tires	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Food	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Batteries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Exempt Foundry Sand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Commingled	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yard Waste	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Misc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
General Solid Waste	0	0	0	6	0	0	0	153	0	0	0	0	938	326	51	0	0	140	108	1,723
Stone/Clay/Sand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Concrete	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	6	0	0	0	154	0	0	0	0	938	326	51	0	0	140	110	1,726

Source(s) of information:
CY 2013 Industrial Survey Responses



APPENDIX G

EXPLANATIONS AND CALCULATIONS FOR PROGRAM EXPENDITURES



Methodology for Projecting Expenditures in Table VIII-5

All expenditures for 2013 are based on the District's actual expenditures as recorded in the District's budget spreadsheet.

PAYROLL EXPENDITURES

Employee Salaries- Admin-01

2014: Based on actual expenditures from January to October. One full-time employee retired mid-year. This reduced payroll expenditures to \$9,346 per pay period. There are 2 pay periods in November and 3 pay periods in December, so \$9,346 was multiplied by 5 pay period and added to the total for January to October.

2015: The expenditures per pay period in 2014 after one full-time employee retired were \$9,346. There are 28 pay periods in the year, so \$9,346 was multiplied by 28, then increased by 1.7% based on the Social Security Administration Cost-of-Living Adjustment (COLA) released October 22, 2014.

2016-2025: Expenditures increase 1.7% annually based on the Social Security Administration Cost-of-Living Adjustment (COLA) released October 22, 2014.

Part Time - Collection Center Employees - Admin-02

2014: Based on actual expenditures from January to October. Weather patterns affect the volume of traffic through the Collection Center as well as the number of hours part-time employees are scheduled. The average expenditures during cooler months (January-April) was used to calculate expenditures for November and December.

2015*-2025: Expenditures increase 1.7% annually based on the Social Security Administration Cost-of-Living Adjustment (COLA) released October 22, 2014.

*2015 and 2016: In addition to the 1.7% increase, an additional \$4,800 was added to this line item to account for adding one new part-time staff member in 2016 and 2017. The total of \$4,800 is the average salary of each part-time employee.

PERS - Admin-03

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Based on the ratio of PERS to full-time and part-time employee salaries in 2014.

$$\text{PERS } (\$67,741) \div \text{full-time salaries} + \text{part-time salaries } (\$298,034 + \$81,395) = 0.1782$$

$$2015 \text{ PERS} = 0.1782 \times (\text{full-time salaries} + \text{part-time salaries})$$

Medicare - Admin-04

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Based on the ratio of Medicare to full-time and part-time employee salaries in 2014.

Medicare (\$6,993) ÷ full-time salaries + part-time salaries (\$298,034 + \$81,395) = 0.0184

$$2015 \text{ Medicare} = 0.0184 \times (\text{full-time salaries} + \text{part-time salaries})$$

Medical Insurance - Admin-05

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015: Based on actual insurance quote for the District.

2016-2025: Based on the ratio of Medical Insurance to full-time employee salaries in 2014.

Medical Insurance (\$103,501) ÷ full-time salaries (\$286,530) = 0.3889

$$2015 \text{ Medical Insurance} = 0.3889 \times \text{full-time salaries}$$

Life Insurance - Admin-06

2014: Based on actual expenditures from January to October. The flat monthly rate after a full-time employee retired was used to calculate November and December.

2015: The new monthly rate after a full-time employee retired in 2014 was multiplied by 12 months for 2015, then increased by 1.0% based on the most recent annual change in various types of insurance in Consumer Price Index for All Urban Consumers (CPI-U from September 2013 to September 2014).

2016-2025: Projected to increase 1.0% annually based on the 12-month percent change in various types of insurance in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Workers Compensation - Admin-07

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Based on adding together payroll expenses for full-time employees, part-time employees, and Sheriff's Department. Total is divided by 100 and multiplied by \$1.95, which calculates the tax rate for employers in the State of Ohio.

Unemployment Insurance - Admin-08

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December. This total, \$619, was rounded up to \$750.

2015-2025: A flat projection of \$750 is annually budgeted for this line item.

ADMINISTRATIVE/DISTRICT FACILITIES, SUPPLIES, AND SUPPORT SERVICES

Supplies - Admin-09

2014-2025: Projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014. The District includes Programs LC-18 and LC-21 in this total when developing budget projections. In Table VIII-5, they subtracted from this total.

County Gas - Admin-10

2014: Based on 2014 County Budget

2015: Projected to decrease 3.6%, based on the 12-month percent change in gasoline in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

2016-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Postage - Admin-11

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 4.1%, based on the 12-month percent change in postage in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Computer Applications (Re-TRAC Connect)- Admin-12

2014: Based on 2014 County Budget

2015-2025: Projected to increase 1.139%, based on the 12-month percent change in information technology, hardware and services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Equipment – Tow motor, Carts, Other - Admin-13

2014: Based on 2014 County Budget

2015-2025: Flat annual budget of \$10,000. Unused portion will be rolled over from year to year to finance for any major equipment purchases. At the time this budget was prepared, planned purchases include a floor scrubber in 2016 and a fork truck in 2017.

Equipment Lease - Admin-14

2014: The District began leasing equipment in October. This monthly total was multiplied by three to calculate the total payments for October through December.

2015-2025: Equipment may be leased on a short-term basis throughout the planning period. The cost to rent equipment for one quarter was based off of the 2014 total and escalated by 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Building Maintenance Collection Center - Admin-15

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December. The total, \$1,722 was rounded up to \$1,750.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Computer System Equipment - Admin-16

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 1.139%, based on the 12-month percent change in information technology, hardware and services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Vehicles - Admin-17

2014: No expenditures projected. Based on 2014 County Budget.

2016, 2018, and 2020: New vehicles are planned to be purchased during given years, beginning with a budget of \$30,000 and increasing \$5,000 for each subsequent purchase to account for inflation.

Vehicle Expense - Admin-18

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 1.6%, based on the 12-month percent change in vehicle repair services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Furniture/Fixtures Collection Center and Admin - Admin-19

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Capital Improvements - Admin-20

2014: Based on 2014 County Budget

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Contract Services-Copier etc. - Admin-21

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Utilities - Admin-22

2014: Based on actual expenditures from January to October. The cost from January (a cool-weather month) was used to project expenditures for November and December.

2015-2025: Projected to increase 3.5% annually, based on the 12-month overall percent change in utilities in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Consulting Services - Admin-23

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2018: A flat rate of \$80,000 is projected for assistance on annual, ongoing, and new initiatives, projects, activities, and reporting requirements.

2019: To reflect additional assistance required for plan preparation, \$90,000 is projected.

2020-2023: A flat rate of \$85,000 is projected for assistance on annual, ongoing, and new initiatives, projects, activities, and reporting requirements. The annual budget was increased from 2018 to reflect inflation.

2024: To reflect additional assistance required for plan preparation, \$95,000 is projected. The annual budget was increased from 2019 to reflect inflation.

2025: A rate of \$90,000 is projected for assistance on annual, ongoing, and new initiatives, projects, activities, and reporting requirements. The annual budget was increased from 2023 to reflect inflation.

Professional Services - Admin-24

2014: Based on the 2014 County Budget.

2015-2017: A flat rate of \$100,000 is projected.

2018-2022: A flat rate of \$105,000 is projected. The annual budget was increased from 2017 to reflect inflation.

2023-2025: A flat rate of \$110,000 is projected. The annual budget was increased from 2022 to reflect inflation.

Repairs Collection Center - Admin-25

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December. This total was rounded up from \$14,233 to \$14,250.

2015-2017, 2020-2023, 20205: Flat annual budget of \$5,000. Unused portion will be rolled over from year to year to finance for any major repairs.

2019 and 2024: An annual budget of \$15,000 is projected for any major repairs.

Indirect Costs - Rent Admin Building - Admin-26

2014: Based on the District's lease agreement.

2016-2025: Projected to increase 0.3% annually, based on the 12-month overall percent change in shelter in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Building Rent Collection Center - Admin-27

2014: Based on District's lease agreement. The District leased additional space for the Collection Center, which is reflected in the increase in expenditures from 2013 to 2014.

2015-2025: A flat rate of \$140,000 is budgeted annually.

Record Center Fees - Admin-28

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Other Expense - Misc. Expenditures - Admin-29

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Dues - Admin-30

2014: Based on 2014 County Budget

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

In-Kind - County Office Expenses - Admin-31

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December. The total, \$3,973.50 was rounded to \$4,000.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Insurance Expenses - Admin-32

2014: Based on 2014 County Budget.

2015-2025: Projected to increase 4.3% annually, based on the 12-month overall percent change in automotive insurance in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Travel/Conference Expenses - Admin-33

2014: Based on 2014 County Budget

2015: Annual budget was doubled from 2014. Budget was previously for travel expenses. In 2015, it will also begin including conference expenses. The District is involved with many initiatives and projects that are gaining attention outside the state of Ohio. The District has been asked to speak at events on recycling programs at out-of-state conferences. The extra expenditures are for airfare and out-of-state travel.

2016-2025: Projected to increase 1.4% annually, based on the 12-month overall percent change in travel expenses in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Staff Training - Admin-34

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in education and communication services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Advertising/Printing - Admin-35

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Projected to increase 2.1% annually, based on the 12-month overall percent change in printing (stationary supply) costs in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Computer Collection Center - Admin-36

2014: Based on actual monthly cost to operate (\$55.00).

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in education and communication services in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

RESIDENTIAL/COMMERCIAL COLLECTION PROGRAMS

Scrap Tire Collection - LC-7

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December. The total (\$21,078) was rounded up to \$25,000.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Bar/Restaurant Glass Recycling - LC-36

2014: No expenditures; program is not projected to begin until 2015.

2015-2025: Annual expenditures are based on estimated costs to complete initiatives detailed in Section V and Table VI-5 of this *Plan Update*.

COLLECTION CENTER PROGRAMS

Household Hazardous Waste (HHW) Collection (Collection Center) - LC-4

2014: Based on 2014 County Budget.

2015-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Electronics Recycling (Collection Center) - LC-5

2014: Projection calculated using the current cost per pound from the e-waste contractor to the District and the total anticipated pounds of e-waste that will be collected in 2014.

2015-2017: Projected to increase 10% annually. The 2013 report, *Quantitative Characteristics of Domestic and Transboundary Flows of Used Electronics*, developed under the umbrella of the United Nations' StEP Program, projects that e-waste will increase at least 30% by 2017. Program costs are expected to increase at the same rate as volume. **Subject to change based on upcoming events regarding a new electronics vendor.**

2018-2025: Projected to increase 1.7% annually, based on the 12-month overall percent change in the Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Fluorescent Bulb and Ballast Recycling (Collection Center) - LC-10

2014-2025: Projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

GRANTS AND LOANS

Recycling Revolving Loan Program - LC-15

2014: Based on District's actual annual contribution.

2015-2025: New loans have not been issued recently, so no additional expenditures are projected.

District Market Development Grants (Commissioner Grants) - LC-16

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December. The total (\$39,311) was rounded up to \$40,000.

2015-2025: Flat annual budget of \$50,000.

Community Incentive Grant Program - LC-17

2014: Total annual grant funding for this program is based on a formula involving District revenue.

2015-2025: Although the actual funding for this program is determined by the District's annual revenue, it is anticipated that the budget for this program will be approximately \$250,000 annually.

Yard Waste Incentive Grant - LC-35

2014-2015: No expenditures; program will not begin until 2016.

2016-2017: Annual projection of \$200,000 is to provide adequate funding to political jurisdictions to implement or expand yard waste collection or composting programs/infrastructure.

2018: Budget of \$150,000 projected.

2019-2025: Annual projection of \$75,000 is to provide political jurisdictions with financial assistance to maintain yard waste collection or composting programs/infrastructure.

Lorain County Recycling Scholarship – LC-37

The District will contribute a total of \$25,000, beginning with \$10,000 in 2016 and \$5,000 annually from 2017 to 2019.

Multi-Family Recycling Program – LC-38

2016-2020: A flat rate of \$50,000 is annually budgeted to fund initiative LC-38.1.

2016-2020: A flat rate of \$35,000 is annually budgeted to fund initiative LC-38.2.

ENVIRONMENTAL CLEAN-UP, MONITORING, AND ENFORCEMENT

Volunteer Litter Collection (Lorain County Pride Day) - LC-18

2014-2025: Projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Open Dump and Scrap Tire Clean-Up - LC-19

2014: No expenses are anticipated.

2015: A one-time budget of \$25,000 is projected. Funding not used during 2015 will be carried over.

C.A.B. (Clean and Beautiful) - LC-21

2014: Based on the District's actual annual program costs.

2015-2025: Flat annual budget of \$1,000 to replenish materials and supplies as well as other costs associated with this program's operation.

Sheriff's Department Funding - LC-22

2014-2015: Based on the gross salaries in the 2014 and 2015 contract agreements.

2016-2025: Expenditures increase 1.7% annually based on the Social Security Administration Cost-of-Living Adjustment (COLA) released October 22, 2014.

OUTREACH, EDUCATION, AND TECHNICAL ASSISTANCE

Residential Recycling Education and Awareness - LC-13

2014: Based on actual expenditures from January to October. An additional \$1,700 was budgeted for activities that may occur in November or December. This is less than the average monthly expenditures because the primary Community Outreach Coordinator will likely be on maternity leave for part of November and December.

2015: Based on the County's 2014 budget of \$25,000, the budget for 2015 is \$24,000. The primary Community Outreach Coordinator may be on maternity leave during January, so a slight decrease in the budget is projected.

2016-2025: Projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014.

Consortium for Waste Services - LC-30

2014: No expenses are anticipated.

2016: A one-time expenditure of \$25,000 is budgeted for this program to be used when needed during the planning period. The budget may either be used to provide seed money for a second consortium or to assist political jurisdictions currently involved in the consortium to prepare for another joint bidding process when the current 5-year contracts expire.

Zero Waste Planning - LC-31

2014: No expenses are anticipated.

2015-2020: Flat annual budget of \$25,000 to assist political jurisdictions with zero waste planning and programming.

2021-2025: Flat annual budget of \$30,000 to assist political jurisdictions with zero waste planning and programming. Costs increase in 2021 to account for inflation.

Waste Audits Program - LC-32

2014-2015: No expenses are anticipated.

2016-2025: Flat annual budget of \$7,500.

Commercial/Industrial Recycling Recognition Program - LC-33

2014: No expenses are anticipated.

2015-2025: Flat annual budget of \$500.

Business Recycling Roundtable - LC-34

2014: No expenses are anticipated.

2015-2025: Flat annual budget of \$500.

OTHER PROGRAMS

Health Department Financial Assistance - LC-23

2014-2025: Flat annual budget of \$187,400.

County Assistance (Engineer) - LC-24

2014-2025: Flat annual budget of \$50,000.

New Programs Funding (General Plan Implementation) - LC-26

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2016-2030: Flat annual budget of \$75,000.

Disaster Debris Management - LC-27

2014: Based on actual expenditures from January to October. The average of these months was used to project expenditures for November through December.

2015-2025: Flat annual budget of \$25,000. The District attempts to be reimbursed by FEMA for expenses related to Disaster Debris Management. Annual expenditures are projected so the District can build up a fund.

Third Party Financial Audit - LC-28

2014: No expenses are anticipated.

2015-2025: Funding is projected every other year. The cost to complete an audit is projected to increase 1.7% annually, based on the 12-month percent change in Consumer Price Index for All Urban Consumers (CPI-U) for September 2013 to September 2014. Since the audit is only completed every other year, expenditures are actually projected to increase 3.4% from the previous audit cycle.



APPENDIX H

KEEP LORAIN COUNTY BEAUTIFUL ADVISORY BOARD BYLAWS



Keep Lorain County Beautiful Advisory Board Bylaws

I. Purpose

- a. The purpose of the Keep Lorain County Beautiful Advisory Board is to support and uphold the Keep America Beautiful mission. The Keep Lorain County Beautiful Advisory Board seeks to uphold the guiding principles of Keep America Beautiful by encouraging education of the public, individual responsibility, public-private partnership and engaging volunteers in action.
- b. The Keep Lorain County Beautiful Advisory Board will maintain legal & ethical integrity as well as accountability to the Lorain County Board of Commissioners.
- c. The Keep Lorain County Beautiful Advisory Board will seek to engage individuals and groups in Lorain County to take greater responsibility for their community and environment by providing direction and resources to these individuals and groups.
- d. The Keep Lorain County Beautiful Advisory Board will require written reports upon completion of projects to encourage accountability. The Board of Commissioners reserves the right to approve or disapprove any requests for resources.

II. Membership

- a. There shall be 10 members of this advisory board with the Chair being the President of the Board of the Lorain County Commissioners or their appointee. The Director of the Lorain County Solid Waste Management District shall serve at the discretion of the Lorain County Board of Commissioners.
- b. The 10 members of the board will be appointees from different groups, organizations & government offices. These shall be the only positions on this board.
- c. The members of this advisory board will be appointed for two year terms by the Lorain County Commissioners. The two year terms will be staggered to ensure all members do not come up for reappointment at the same time. To this end, five of the original board members will be up for reappointment after just one year.
- d. Keep Lorain County Beautiful Advisory Board members agree to resign in the event they can no longer complete their duties. At any point the Lorain County Board of Commissioners may ask for a resignation. The

Board of Commissioners may ask advisory board members to resign if they miss more than 25% of scheduled meetings in one year or miss two or more consecutive meetings.

III. Meetings

- a. The Lorain County Beautiful Advisory Board will meet every other month as necessary with at least 4 meetings being held each year.
- b. Subcommittees of the Lorain County Beautiful Advisory Board will meet as often as necessary to accomplish their goals.



APPENDIX I

2015 ADVERTISING AND MARKETING PLAN

**Lorain County Solid Waste Management District
2015 Marketing and Advertising Plan**

The Lorain County Solid Waste Management District is required to prepare a Solid Waste Management Plan (Plan). The Plan requires the District to implement programming and advertising to educate Lorain County residents about District programming and opportunities for recycling and waste reduction. The education and awareness activities are required goals established by the State of Ohio in the Ohio State Solid Waste Management Plan. The current District Plan requires the District to implement the following:

- Programs consisting of specific and targeted advertising, Pride Day, quarterly school publications, school presentations, special presentations, District web site and the District quarterly newsletter.
- The District has a diversified marketing program to reach the residents within Lorain County through radio, cable TV, billboards, transit bus signs and other media methods.

2015 Marketing and Advertising Plan

The marketing and advertising plan has been prepared to identify the target programs for advertising, the types of media and costs.

Program	Date	Type of Ad	Name of Advertiser	Number of Ads	Cost per Ad	Total Cost
Shred Day	4-18-2015	Newspaper Newspaper Newspaper Newspaper Radio Radio Sign	Journal Chronicle Rural Urban Press WEOL WOBL Transportation Center		Varies	\$3,300
Pride Day	5-16-2015	Radio Radio Newspaper Newspaper Newspaper Newspaper (3) Sign	WEOL WOBL Journal Chronicle Rural Urban Press Transportation Center		Varies	\$4,200
District Market Dev. Mtg. Public Notice		Newspaper				\$1,000
Senior News		Newspaper			\$62.40/Mo nth	
Lorain County Fair	Aug 24-30th	Newspaper Radio				\$

*Lorain County Solid Waste Management District
2015 Marketing and Advertising Plan*

Program	Date	Type of Ad	Name of Advertiser	Number of Ads	Cost per Ad	Total Cost
Labor Festival		Program Ad		1		
Fall Shred Event						\$3,300
Ag Tire Collection Event						\$2,100
America Recycles Day	Nov 15 th	Newspaper Radio				\$3,400
Collection Center		Newspaper Radio				
Total						

Example

Target Audiences

The Marketing and Advertising Plan is targeted at the following audiences.

Program	Target Audience
Shred Day	Lorain County Residents
Pride Day	Lorain County Residents/Volunteers & Businesses
District Market Dev. Mtg. Public Notice	Non-profit organizations in Lorain County
Senior News	Lorain county senior citizens interested in part-time employment at the collection center
Ag Tire Event	Lorain County farms
America Recycles Day	
Collection Center	Residents and businesses in Lorain County

Measurements of Success

Program	Measurement of Success
Shred Day	Number of vehicle attendance and tonnage of shredded paper
Pride Day	Number of volunteers, tonnage
District Market Dev. Mtg. Public Notice	Number of applications received to the District
Senior News	Qualified applicants hired for the collection center
Ag Tire Day	Tonnage of agricultural tires collected
America Recycles Day	
Collection Center	



APPENDIX J

COMMUNITY INCENTIVE GRANT GUIDELINES

Lorain County Solid Waste Management District 2015 Community Incentive Grant Funding

PURPOSE OF THE PROGRAM

The focus of the grant program is to assist communities to strive for and exceed Ohio's goal of recycling 25% of materials generated by the residential sector. Communities are encouraged to use incentive grant funds to increase residential recycling rates by employing the following strategies:

- Residential education and awareness programs
- Social marketing campaigns
- Providing recycling opportunities for residents in multi-family housing units (apartments) who historically have lower recycling rates than residents in single-family homes that have access to curbside recycling
- Activities or programs targeted to reach or provide recycling opportunities to underserved residents or groups that could improve their participation rates in recycling programs
- Equipment that will be used to maintain, enhance, or expand a residential recycling program.

Each political subdivision receiving an incentive grant is required to complete reports as requested by the District on the use of the funds and the amount of materials recycled. Communities missing the deadlines for submitting recycling tonnages may not be eligible for grant funding.

COMMUNITY FUNDING FORMULA

Grant funding for political subdivisions is based on the quantity of material recycled by each community as a ratio of the total residential recycling tons collected by political subdivisions, as well as the amount of available grant funding. Communities using a volume-based system (VBS) or a blue-bag system will be credited with 100% of the curbside and drop-off recycling tons collected for the 2014 calendar year.

In 2014, 33 of the 34 communities reporting recycling quantities were already using a VBS or blue-bag program. The total tons of recycling collected by those communities in 2014 were 19,169.4 tons. The District will use the following formula to determine funding levels on a per ton basis:

Grant Funding Formula:

$$\frac{\text{Available Grant Funding (\$375,000)}}{\text{Total Tons Recycled}}$$

$$\$375,000 \div 19,169.4 \text{ tons} = \$19.56 \text{ dollars/ton}$$

A table listing each community, tonnage reported, and the grant amount available can be found on page 4.

INCENTIVE GRANT FUNDING

Annual incentive grant funding is typically determined in the first quarter of the year based on the previous 12 months revenues. The table below illustrates the availability of grant funding based on County revenues. The available level of grant funding for 2015 was \$275,000. The District obtained permission from the County Commissioners to include an additional \$100,000 to the grant for 2015, bringing the total available funding to \$375,000.

County Revenues	Available Grant Funding
\$2 million to \$2.1 million	\$200,000
Over \$2.1 million to \$2.2 million	\$225,000
Over \$2.2 million to \$2.3 million	\$250,000
Over \$2.3 million to \$2.4 million	\$275,000
Over \$2.4 million to \$2.5 million	\$300,000
Over \$2.5 million to \$2.6 million	\$335,000
Over \$2.6 million to \$2.7 million	\$370,000
Over \$2.7 million to \$2.8 million	\$405,000
Over \$2.8 million to \$2.9 million	\$445,000
Over \$2.9 million to \$3.0 million	\$485,000
Over \$3.0 million to \$3.1 million	\$525,000
Over \$3.1 million to \$3.2 million	\$575,000
Over \$3.2 million to \$3.3 million	\$625,000
Over \$3.3 million to \$3.4 million	\$675,000
Over \$3.4 million to \$3.5 million	\$735,000
Over \$3.5 million	\$60,000 for each \$100,000

INCENTIVE GRANT FUNDING ALLOWABLE USES

Communities that apply for a Community Incentive Grant must use grant award on the allowable uses below:

1. Grant and incentive monies can be used to pay for refuse carts, bags, stickers and recycling containers.
2. The following are allowable costs for grant funds and incentive payments including, but not necessarily limited to:
 - Advertising to promote recycling and litter control programs (newspaper, television/cable, radio and billboards). The District encourages communities to spend 2% of the grant award on advertising.
 - Blue Bags, residential recycling containers, VBS stickers.
 - Printing of educational materials (flyers, brochures).
 - Composting equipment (turners, chippers, screens).

- Automated Vehicle Equipment (Refuse or Recycling).
- Automated Carts.
- Recycling equipment (compartmentalized vehicles, storage containers, materials sorting equipment).
- Recycled-content office supplies (paper, file folders, recycled printer cartridges, etc.) Purchase of these items not to exceed 15% of Grant award.
- Recycling drop-off equipment including site facilities.
- Recycled products made from recycled materials including playgrounds and recycled products to be used in capital improvement projects must contain at least 20% post consumer recycled material.
- Books, VCR tapes related to solid waste and recycling.
- School educational field trips directly related to recycling or composting.
- Financing for incentive awards, gift certificates, signage or savings bonds.
- Staff assistance related to on-site staffing for drop-off recycling programs (including salary and benefits).
- Food/refreshments (non-alcoholic beverages) limited to Pride Day & Earth Day. Not to exceed \$200.00.

2015 COMMUNITY INCENTIVE GRANT TIMELINE

In order to be eligible for 2015 grant funding it is mandatory that all 2014 recycling tonnages have been entered and up to date in the new Re-Trac Connect System.

Grant Applications and Guidelines will be emailed to all Grantees by March 3, 2015. The deadline to submit applications electronically will be **May 15, 2015 at 4:00 pm**. The contact person for the 2015 Community Incentive Grant Program is Tiffany Barker. Please email your grant application to tbarker@loraincounty.us before May 15, 2015 at 4:00 pm in order to be eligible to receive a 2015 grant.

Do not make grant purchases before receiving the signed MOU. This is a reimbursement grant. To close out your grant send a cover letter on your community's letterhead requesting reimbursement for the approved grant total, along with copies of invoices and checks supporting your expenditures.

If you need to amend your grant application, please contact Tiffany and she will speak with Mr. Bailey for approval on the amended application.

All grant close-outs must be completed and remitted to the District before November 6, 2015 before 4:00 pm. If you have questions, please contact Tiffany Barker at 440-328-2368 or by email at tbarker@loraincounty.us.

2015 Community Incentive Grant Funding

Lorain County Community	2012 Tons	2013 Tons	2014 Tons	Grant Amount
Amherst (City)	1,077.2	1,291.9	1,073.3	\$20,996.05
Amherst Township	418.4	287.2	434.5	\$8,499.10
Avon (City)	2,315.5	1,687.2	1,836.8	\$35,931.50
Avon Lake (City)	933.5	901.1	1,337.8	\$26,171.56
Brighton Township	57.5	156.4	83.8	\$1,638.90
Brownhelm Township	62.7	42.9	117.3	\$2,294.28
Camden Township	61.5	17.4	57.3	\$1,120.34
Carlisle Township	528.4	373.3	579.0	\$11,326.46
Sheffield Lake (City)	784.9	674.9	811.8	\$15,879.82
Columbia Township	610.7	396.3	508.2	\$9,941.83
Eaton Township	306.1	169.6	411.4	\$8,047.40
Elyria (City)	3,665.2	3,608.8	3,422.5	\$66,952.44
Elyria Township	329.8	257.3	272.8	\$5,336.24
Grafton (Village)	254.2	173.8	282.8	\$5,531.59
Grafton Township	200.1	179.9	200.1	\$3,914.05
Henrietta Township	0.0	33.3	121.8	\$2,381.92
Huntington Township	50.5	51.4	65.3	\$1,276.45
Kipton (Village)	27.6	35.9	15.1	\$295.41
LaGrange (Village)	230.0	256.4	202.8	\$3,966.28
LaGrange Township	304.1	283.4	420.6	\$8,227.37
Lorain* (City)	454.5	362.1	960.6	\$18,790.89
New Russia Township	190.8	102.3	247.5	\$4,842.09
North Ridgeville (City)	3,160.7	2,414.3	2,586.7	\$50,601.18
Oberlin (City)	590.5	805.9	445.8	\$8,720.46
Penfield Township	82.8	164.0	136.4	\$2,667.34
Pittsfield Township	143.7	89.3	106.8	\$2,089.86
Rochester (Village)	2.7	2.3	15.4	\$300.48
Rochester Township	32.9	82.6	23.0	\$449.94
Sheffield (Village)	336.2	288.1	299.8	\$5,865.41
Sheffield Township	317.4	396.6	225.6	\$4,413.87
South Amherst (Village)	234.4	255.4	213.0	\$4,165.82
Vermillion (City)	1,224.9	970.1	1,026.9	\$20,089.61
Wellington (Village)	283.1	272.9	502.7	\$9,834.04
Wellington Township	83.3	102.6	124.7	\$2,440.02
Totals	19,355.5	17,186.6	19,169.4	\$375,000

*Communities with Blue Bag Recycling Programs were only credited for 50% of their recycling for 2012 and 2013. These communities will receive credit for 100% of community recycling tonnage collected in 2014.

Recycling Per Ton	\$19.56
Total Grant Dollars Available for	\$375,000

Note: Only materials collected through residential curbside recycling and drop-off programs (excluding Abitibi bins) are counted in the above table. The following materials are not counted toward the Incentive Grant: unidentified miscellaneous materials, fabric, batteries, appliances, concrete, organics, tires, wood, and materials collected in roll-offs during special drives/annual clean-ups.



APPENDIX K

MARKET DEVELOPMENT GRANT GUIDELINES



Lorain County Solid Waste Management District

Lorain County Board Of Commissioners

226 Middle Avenue • Elyria, OH 44035
Office: 440-329-5440 • Fax: 440-329-5777
Toll-Free Information Line: 800-449-5463

www.loraincounty.us/solidwaste

District Market Development Grant Program description, requirements, and guidelines

INTRODUCTION

The Lorain County Solid Waste Management District designed the District Market Development Grant program to provide opportunities to financially support projects that will develop the local infrastructure for processing recyclable materials in Lorain County. The District’s goal is to improve the region’s end-product markets and processing capacity for the following targeted materials collected in Ohio:

- aluminum
- carpet & padding
- electronics
- gypsum board
- glass
- mattresses
- organic (food waste) material
- old corrugated cardboard
- paint
- paper
- plastic (#1 - #7)
- shingles

Projects that consume the largest volume of recyclable materials will receive increased consideration.

WHO CAN APPLY

Private sector businesses, local governments, and non-profit organizations are eligible. Applicant organizations may or may not be headquartered in Lorain County; however, the project must be located in Lorain County, and operate primarily for the benefit of its residents.

ELIGIBLE PROJECTS

Project Category	Maximum Grant Request*	Project Examples – examples are illustrative and not all-inclusive
Glass Recycling	\$50,000	Collection and processing of mixed or color separated glass. Also any manufacturer of a finished product that uses glass as a base material.
Manufacturing & Reprocessing	\$50,000	Manufacturing or processing facilities seeking to expand their capabilities to process

Project Category	Maximum Grant Request*	Project Examples – examples are illustrative and not all-inclusive
		base material or manufacture a finished product.
Material Recovery Facility (MRF) Recycling	\$50,000	A private sector owned and operated material recovery facility seeking funds to expand operational capacity
Mattress Recycling	\$50,000	Collection or operational equipment for a mattress processing facility.
Organics Recycling	\$50,000	Facilities capable of handling or seeking to handle food waste and proposing to install an “in-vessel” or similar processing system.

*The District and Board will consider increasing maximum grant requests on a case-by-case basis.

FUNDING CRITERIA

The District will consider the following elements in the process of application review:

- Demonstration of positive economic and environmental impact locally, regionally, or statewide
- Assurances that the project will accomplish stated goals
- Potential for evolution into a permanent service or program without future District funding
- Consistency with the strategic goals described in Lorain County’s Solid Waste Management Plan
- Qualifies as an eligible project and includes one or more targeted materials
- Financial need of the applicant
- Availability of grant funds
- Submission of required forms and comprehensive responses to all applicable questions
- No outstanding compliance issues related to solid waste management.

MATCH FUNDS

District Market Development grant projects require a one hundred percent (100%) matching funds reimbursement, meaning that not more than \$1.00 will be granted for every \$2.00 of

total project cost. The reimbursement feature means that the grantee will be required to provide proof that the project is finished and paid for **before** grant disbursement will occur.

This grant program is a voluntary offering by the Lorain County Board of Commissioners and the Lorain County Solid Waste Management District. As such, the decision to continue offering the program in any given year is entirely at the discretion of the Board of Commissioners.

The total amount available for this program and the limits of individual grants may vary annually.

GENERAL REQUIREMENTS

The applicant organization must be engaged in actively separating and recycling waste materials at their offices and facilities. It should also be promoting waste reduction, reuse, and recycling as much as their organization's purpose allows. If not, then the application form should include an explanation of what recycling programs will be implemented before the end of the project.

One of the reasons for providing these grants is to educate the public about the usefulness of recycling – each time they see a sign that informs them of recycled products being used, it reinforces their understanding that the recycling system does actually produce results, and it creates jobs and sales in the process. Therefore, each project will not be considered complete until signs or plaques that highlight the use of recycled content materials, and that give credit to the Board of Commissioners and the District for their contribution to the project, are in place.

ALLOWABLE COSTS

Grant funds may be expended only for allowable costs described below:

- Equipment
 - purchase of equipment
- Goods & Services
 - site improvements directly related to the project
 - purchase tools and supplies necessary to implement the project
- Personal Services Contract
 - contracts covering the costs necessary for services of public or private contractors; such costs shall not include salaries or benefits of existing or “in-house” employees

UNALLOWABLE COSTS

Costs not allowed to be reimbursed with grant funds include, but are not limited to:

- recycling of hazardous waste
- employees salaries or benefits
- land acquisition
- materials not generally found in the municipal solid waste stream
- costs excluded by ORC 3736 or not identified under “Allowable Costs”

APPLICATION PROCEDURES

All applications must be submitted using the standardized application format available from the District office. The form is available on paper, or as a computer file in Microsoft Word format. Other formats may be possible, upon special request. Also, the District office can supply several sample applications to aid applicants in completing theirs.

Applicants are required to submit both an original (written) application for the proposed project by U.S. mail, and one application as an email attachment to Tiffany Barker, District Marketing Coordinator, at: tbarker@loraincounty.us.

The subject line of the email message should state “2016 Market Development Grant Application” as well as the name of your business, community or organization. Both the written and electronic applications must be U.S. postmarked or delivered to the office by no later than February 2, 2016. Mailed application documents and materials should be sent to:

Lorain County Solid Waste Management District
ATTN: Tiffany Barker, District Market Coordinator
226 Middle Avenue, 5th Floor
Elyria, Ohio 44035

Additional program information can be received by emailing tbarker@loraincounty.us or by calling 440-328-2368.

IF YOU ARE AWARDED A GRANT

GRANT AGREEMENT

The grant agreement will specify the total grant award and will stipulate exactly how the grant funds will be spent. All grant recipients must enter into this agreement with the District to authorize receipt and expenditure of grant funds.

DISBURSEMENT REQUIREMENTS

When the project is complete, the grantee should apply for reimbursement in the amount of the grant award. This request should take the form of a simple business letter to the District Director requesting disbursement. To satisfy the requirements of the Auditor's Office, the letter must contain the following sentence:

“We therefore request reimbursement in the amount of [amount of grant].”

The letter must be accompanied by proof that funds were expended on allowable uses. This proof may take one of two forms:

- A copy of the vendor's invoice and a copy of the check written by the grantee to pay that invoice.
- A copy of the vendor's invoice with the vendor's notation that it has been paid in full.

Disbursements will take 3-4 weeks to process, from the date of receipt of the request letter and supporting documentation.

TIMELINE AND PERFORMANCE PERIOD

The effective date of the grant agreement will be **July 1, 2016** or the date, on which the agreement is signed by the District Director, whichever is later. Grant and match funds cannot be expended prior to the effective date.

The maximum grant period for the grant is 24 months. The scheduled expiration date for the grant period is **June 30, 2018**. Grantees may request to close out the grant early. Upon close out, the grantee must submit all required grant final reports and supporting documentation such as invoices and proof of payment.

OTHER REQUIREMENTS

Not less than 30 days *before* the completion of the project, the grantee should contact the District Director to determine what publicity should accompany this event. The District and the

Board of Commissioners reserve the right to actively participate in this publicity, including, but not limited to, issuing press releases, sending representatives to any opening ceremonies, etc.

Not more than 60 days' *after* disbursement has been applied for, a Project Completion Report is required. This will take the form of a standard business letter from the grantee to the Director of the Solid Waste Management District. This letter should note:

- The date on which the project was officially finished or equipment was installed.
- The degree of success that was achieved.
- Any comments, positive or negative, about the recycled content materials used.

Attached to the letter should be:

- 4 to 6 photos of the finished work,
- Copies of any press releases or other publicity generated.

SPECIFICATIONS

- Applicant organizations may receive only one grant during each calendar year.
- The District Director will review all applications for completeness and correctness, and then submit those to the Board of Commissioners with his recommendations concerning each.
- Any of the provisions of this grant program may be modified or waived at any time by the Board of Commissioners, as conditions warrant.

Application For District Market Development Grant

Calendar Year:

DATE OF APPLICATION:

PROJECT NAME:
(Full Name Assigned By Applicant Organization)

Applicant Organization/Business: _____

Grantee Contact Person: _____ Title: _____

Applicant Mailing Address: _____

City: _____ Zip Code: _____

Phone: _____ Fax: _____ Email: _____

Project Type	Grant Funds Requested	Match Funds Committed	Total
	\$	\$	\$
Targeted Materials		Annually Projected Tons Processed	
Jobs Created & Retained		Full-Time Employees	Part-Time Employees
	Created:		
	Retained:		

AUTHORIZED SIGNATURE FOR APPLICANT AGENCY

Upon submission of this grant application, the applicant will be bound by its contents. In the event the Ohio EPA accepts this proposal, the applicant will fully comply with the contents and conditions outlined in the grant proposal. I, the undersigned Authorized Official of the grant applicant, certify that the applicant possesses all necessary authority to undertake the proposed activities identified in this application. I certify the information in this grant application is accurate and complete.

(Authorized Official's Printed Name)

(Authorized Official's Title)

(Authorized Official's signature)

(Date)

EXECUTIVE SUMMARY

Applicants should provide an overview of the proposed project, the project's purpose and scope, and the specific methods and technologies that will be incorporated to implement the project. If applicable, this section should describe the business or organization's history, primary product line, current industry trends impacting the business and the specific location where the project will be conducted. The summary should include a timeline in narrative form for the major project events including securing of permits and licenses, construction of facilities and completion of service contracts. Include the number and type of jobs you anticipate being created or retained as a result of this project. Applicants should demonstrate the financial and operational rationale for the requested funding and provide supporting information.

PROJECT DETAILS FORMAT

Responses must be titled and listed in the order in which they are provided in this format.

- 1. Project Budget and Match Commitment** - provide a detailed breakdown of the total expenditures required for the proposed project. **Clearly identify which expenditures will be paid with District grant funds and matching funds.** Explain if additional funds will be expended beyond required match.
- 2. Service Area** - define the project's site of operation and service area, based on population and geographical area and explain how the target service area was determined.
- 3. Diversion Rate** - state the tonnage of material being diverted from the baseline amount of waste generated in the service area or being received by a facility.
- 4. Sustainability** - describe the long-term commitment to continue the project operationally and financially.
- 5. Performance** - state anticipated tons collected and recycled and the project's goals and methods employed to measure and evaluate the project.
- 6. Material Description** - identify type and quantity of materials utilized as feedstock for this project - classify as post-consumer, post-commercial or post-industrial. Provide data on total volume and calculations for percentage of recycled content. Name the sources and locations of materials utilized as project feedstock. List any required material specifications.
- 7. Facility Details** - include contact information, actual location of the facility and equipment.
- 8. Markets** - define the targeted material or product market, describe the company's growth potential within the market and discuss the barriers to market entry.
- 9. Acknowledgement of Funding Source** - Explain how you will identify the District's financial participation in your project.

APPLICATION CHECKLIST

Applicants are encouraged to utilize the following checklist to ensure the completeness of their Market Development Grant application package.

- One complete set of all application forms shall be mailed to Lorain County Solid Waste Management District, ATTN: Tiffany Barker, District Market Coordinator, 226 Middle Avenue, 5th Floor, Elyria, Ohio 44035.
- One complete set of all application forms shall be emailed in Word or PDF format to tbarker@loraincounty.us using the subject line: 2016 District Market Development Grant.
- District Market Development Grant Application cover sheet (see pages 7-8) with original authorized signature.
- District Market Development Grant Executive Summary (see page 9) - limit to one double-sided page in narrative form.
- District Market Development Grant Project Details Format (see page 10) - provide comprehensive responses to all applicable questions in the format outlined, limit to three double-sided pages.



APPENDIX L

HEALTH DEPARTMENT EXPENSE REPORT

LORAIN COUNTY SOLID WASTE DISTRICT
Income & Expense Report

January 1, 2013 Through December 31, 2013

Health District: Lorain County General Health District

Person Completing Report: Deborah Chavez

Phone #: (440) 322 - 6367 Date: April 1, 2014

REVENUE	
	INCOME
Solid Waste District Subsidy	\$ 50,000.00
Solid Waste Hauler Registration	\$
Transfer Station License	\$
Other (Specify)	\$
TOTAL REVENUE	\$ 50,000.00

EXPENSES SOLID WASTE ENFORCEMENT Allowable use #3 (Please read attached guidance document from Ohio EPA)

PERSONNEL	RATE	HOURS	EXPENSE
John Sabo	\$ 30.11	728	\$ 21,920.08
Mike Jindra	\$ 26.04	1.5	\$ 39.06
Ann Maczuga	\$ 26.04	6	\$ 156.24
Bob Goard	\$ 27.34	6	\$ 164.04
Mark Smith	\$ 28.64	15	\$ 429.60
Bill Van Curan	\$ 28.64	29	\$ 830.56
Cindy Grubic	\$ 16.86	73	\$ 1,230.78
Jill Lis	\$ 38.46	121	\$ 4,653.66
Dave Covell	\$ 55.29	42	\$ 2,322.18
Chris Pyanowski	\$ 36.68	104	\$ 3,814.72
TOTAL SALARIES			\$ 35,560.92
FRINGES			EXPENSE
PERS			\$ 4,978.53
Insurance			\$ 5,337.77
Workers Compensation			\$ 753.89
Medicare			\$ 515.63
Other Fringes (specify)			\$
Other Fringes (specify)			\$
TOTAL FRINGES			\$ 11,585.82
TOTAL PERSONNEL			\$ 47,146.74

EXPENSES CONTINUED...Allowable Use #3

OTHER DIRECT COSTS	EXPENSE
Transportation	
Mileage reimbursement	\$ 655.53
Vehicle gas	\$ 393.23
Vehicle maintenance	\$ 0.00
Vehicle repairs	\$ 0.00
Vehicle insurance	\$ 245.00
Total Transportation	\$ 1,293.76
Supplies (Office & Program)	
Postage	\$ 94.00
Telephone / Fax / E-mail	\$ 204.27
Photocopying	\$ 81.09
Printing	\$
Office supplies	\$ 347.21
Miscellaneous (specify) record storage fees	\$ 22.55
Miscellaneous (specify)	\$
Total Supplies	\$ 749.12
Equipment Purchases (specify)	
	\$
	\$
	\$
Total Equipment Purchased	\$ 0.00
Training	
Training	\$ 615.62
	\$
	\$
Total Training	\$ 615.62
Other	
Building Maintenance	\$ 194.76
Total Other	\$ 194.76
TOTAL OTHER DIRECT COSTS	\$ 2,853.26
TOTAL EXPENSES	\$ 50,000.00
BALANCE	\$ 0.00



APPENDIX M

2015 HOST COMMUNITY AGREEMENT



HOST COMMUNITY AGREEMENT

THIS AGREEMENT, made and entered upon mutual signature, and to be effective on June 1, 2015 by and between the Board of Commissioners of Lorain County, Ohio (the "Board") and in its capacity as the Board of Directors of the Lorain County Solid Waste Management District (the "District") organized and existing under the Constitution and laws of the State of Ohio, with offices located at 226 Middle Avenue, Elyria, Ohio, 44035-5641, and Lorain County Landfill, LLC, an Ohio limited liability company with offices located at 43502 Oberlin-Elyria Road, Oberlin, OH 44074 (the "Company").

WHEREAS, the District is a solid waste management district established pursuant to Chapter 343 of the Ohio Revised Code for the purposes of preparing, adopting, submitting and implementing a solid waste management plan for the District, pursuant to Sections 3734.52 *et seq.* of the Ohio Revised Code; and providing for the safe and sanitary management of solid wastes within all of the incorporated and unincorporated territory of the District; and

WHEREAS, pursuant to Section 3734.53 of the Ohio Revised Code, the District is required to demonstrate and certify the availability of and access to sufficient solid waste management facility capacity to meet the solid waste management needs of the District for the planning period covered by the District's solid waste management plan; and

WHEREAS, the Director of Ohio EPA approved the District's amended solid waste management plan (the "Plan") on April 18, 2014, which expressly authorizes the Board to enter into host community agreements, including this Host Community Agreement; and

WHEREAS, the Company is the owner and operator of the Lorain County Landfill, located at 43502 Oberlin-Elyria Road, Oberlin, Ohio 44074 (the "Landfill"); and

WHEREAS, the successful programmatic and financial implementation of the District's Plan depends on continued operation, maintenance and use of the Landfill as the primary source of solid waste disposal capacity for all of the solid waste generated within the District; and

WHEREAS, the District has determined that entering into a host community agreement to serve the District will provide stability for the District's long term solid waste management needs, and will result in substantial economic development, fiscal, and environmental benefits for the District and Lorain County generally; and

WHEREAS, the District desires to enter into this Host Community Agreement with the company in order to maintain adequate reserved disposal capacity at the Landfill to handle all or a substantial portion of the future solid waste management needs of the District, and to provide additional benefits to the District and County as set forth herein.

NOW, THEREFORE, in consideration of the promises and mutual covenants contained herein, the parties fully incorporate the foregoing recitals and further agree as follows:

Section 1. Term. This Host Community Agreement shall be in effect commencing on the date first written above and continuing for a term of three (3) years, unless terminated pursuant to the conditions set forth herein. This Host Community Agreement may be extended or renewed for three (3) additional terms of one (1) year, upon like terms and conditions, provided that the parties mutually consent in writing to such extension or renewal.

Section 2. Solid Waste. As used in this Host Community Agreement, the term "solid waste" shall have the same definition as set forth in Section 3734.01(E) of the Ohio Revised Code, except the Company shall not be obligated to accept for disposal at the Facility any waste that (a) does not meet the definition of solid waste under Section 3734.01(E); (b) that is defined by applicable federal, state, or local laws as Hazardous Waste or Infectious Waste; or (c) is not consistent with the waste permitted for disposal under the Company's permit for the Facility.

Section 3. Reserved Capacity. During the term of this Host Community Agreement, the Company shall provide one thousand, two-hundred fifty (1,250) tons per day in reserved disposal capacity at the Landfill for solid waste generated within the District. The Reserved Capacity shall be available each operating day for the disposal of solid wastes that are generated within the District on a "first come - first served" basis. Nothing herein shall permit or require the "banking" of any unused Reserved Capacity by the District as provided herein. The Reserved Capacity assured under this Host Community Agreement shall be provided and made available solely for solid wastes that are generated in the District and delivered to the Landfill on a per operating day basis. "Operating day" means the normal hours of waste receipt at the Landfill during each calendar day that the Landfill is open for business. The District shall incur no liability to the Company by reason of there being delivered to the Landfill solid wastes generated within the District in an amount less than the Reserved Capacity.

Section 4. Out-of-District Solid Waste. Unless prevented by existing Company proposals or contracts, Ohio EPA actions or any other legal proceedings or requirements, the Company agrees that an amount equal to the tonnage of solid waste generated in Cuyahoga County, Ohio that is collected, received by, or otherwise controlled by affiliates of the Company will be delivered to the Landfill for disposal so long as there are no operational issues preventing such. This provision shall be in place for the term of this Host Community Agreement so long as there are no legal rulings from a Court or Administrative Agency or operational issues preventing such.

Section 5. Facility Improvements. The Company shall operate, maintain and make improvements to the Landfill, as necessary, to enable the Landfill to comply with the in-District solid waste reserved capacity.

Section 6. Tipping Fee Discount. The Company shall provide Lorain County residents a discount of ten percent (10%) off the Landfill's posted gate rate for the disposal of self-hauled residential solid waste delivered to the Landfill.

Section 7. Pride Day. The Company shall provide one (1) solid waste dumpster to each participating municipality, village, and township within the District for use in connection with the District's annual "Pride Day" county-wide clean-up event to be held each year on a date that is determined by the District. The dumpsters provided by the Company for "Pride Day" shall be used solely for the purpose of community clean-up of non-hazardous solid waste pursuant to guidelines established by the District. The Company shall deliver and pick-up the dumpsters, and dispose non-hazardous solid waste deposited in the dumpsters at the landfill at the Company's expense. The District shall cooperate with the Company to coordinate the delivery, use, and removal of the dumpsters on a mutually

acceptable schedule. The Company shall dispose the non-hazardous solid waste contents of the removed dumpsters in the Landfill for free; the Company shall not be responsible for the handling or disposal of any wastes other than those solid wastes listed in Section 2, above. The District shall cooperate with the Company regarding the size, potential number and location of Pride Week dumpsters.

Section 8. Free Collection and Disposal for County Facilities. The Company shall provide free solid waste collection and disposal services and free recyclable collection and processing to all Lorain County Buildings specifically noted in Exhibit A, which is fully incorporated herein by reference, as well as all other Lorain County facilities under the control of the Board added during the term of this Host Community Agreement. The Company shall provide the District quarterly reports containing the estimated tonnage of material collected, disposed of, and recycled from all Lorain County Buildings. The quantities that will be provided in the quarterly reports will be estimates based upon: the container size and number of pick-ups and will assume that solid waste weighs eighty-five (85) pounds per container yard and that recyclables will weigh sixty (60) pounds per container yard. Thus, for example, the quarterly report will provide a quantity of 0.24 tons (480 pounds) for an 8 yard recyclable container that has been picked-up

Section 9. District Fees. Company shall pay to the District each month all disposal and generation fees levied by the District pursuant to Sections 3734.57 and 3734.573 of the Ohio Revised Code on solid waste delivered to the Landfill (referred to herein as "District Fees"). Commencing with the second month following the date of this Host Community Agreement, the Company shall forward to the District each month, on or before the last day of the month, the entire amount of the District Fees to be paid on the tonnage of solid waste that the Landfill received during the preceding month, The Company shall forward to the District a fully completed District Fee Certification Statement, a copy of which is attached hereto as Exhibit B and fully incorporated herein by reference, at the same time the Company forwards payment of the District Fees.

The Board and District shall support and work diligently to set and keep the amount of the District Fee levied on out-of-District solid waste delivered to the Landfill to equal two dollars (\$2.00) per ton for each ton of out-of-district solid waste delivered to the Landfill for disposal. The Board shall disapprove any amended solid waste management plan that proposes a fee greater than two dollars (\$2.00) per ton for each ton of out-of-district solid waste delivered to the Landfill for disposal. In addition, the Company shall pay the District sixty cents (\$0.60) per ton for any out-of-district solid waste disposed at the landfill (the "Additional Fee").

The Company and District understand and acknowledge that there is significant discussion among those in the solid waste industry, at Ohio EPA and the Ohio Legislature regarding potentially amending Ohio Revised Code Chapter 3734 relating to solid waste district fees, state fees, the need for solid waste management plans, and the like. Should there be any subsequent amendments to Ohio law regarding or affecting the per ton fees collected/paid pursuant to this Host Community Agreement, the parties hereto shall work diligently to amend this Host Community Agreement so that each party receives the benefit of the bargains contained herein. If the parties cannot agree to amend this Host Community Agreement within five (5) business days prior to the effective date of any such amendments, then either party may terminate the agreement via written notice to the other party.

Section 10. District Consideration In consideration of the Company's agreement to continue to hold and provide the District's residents guaranteed availability of reserved disposal capacity for in-District solid waste, and for the other valuable benefits the Company

agrees to provide the District pursuant to this Host Community Agreement, the District shall 1) use its best efforts to support the Company's intended future expansion of the Landfill; 2) provide District wide programs that will direct any natural disaster debris, with the exception of wood waste, from all communities within the District to the Landfill with the District assuming the cost of collection and disposal of the natural disaster debris; and 3) continue to exercise flow control pursuant to the provisions in the District's Plan during the term of this Agreement, including any extensions under Section 1 herein, provided the District will review the designations annually and can revise as needed.

Section 11. Daily Log; Inspection. The Company shall note the county (and State, if other than Ohio) of generation of each shipment of solid waste accepted for disposal at the Landfill, as reasonably determined by the Company, on the daily operating log kept for the Landfill pursuant to Rule 3745-27-19 of the Ohio Administrative Code. The Company shall permit representatives of the District to inspect and obtain copies of the daily operating log kept for the Landfill pursuant to Rule 3745-27-19 of the Ohio Administrative Code. Any such inspection or copying requested by the District shall be conducted during the Landfill's normal business hours, and the District shall give the Company at least twenty-four (24) hours prior notice of any such inspection or copying. In the event the District requests copies of daily log sheets, the Company agrees to make such copies available to the District within a reasonable time and may charge the District not more than ten cents (\$0.10) per page for providing the copies.

Section 12. Relation to Plan. Except as explicitly set forth herein to the contrary, nothing contained in this Host Community Agreement, shall be construed to limit or restrict, in any manner, whatever regulatory authority the District may have with respect to the Landfill and its use in connection with the preparation, revision and implementation of the Plan for the District and any amendments thereto.

Section 13. Breach. In the event of a breach of this Host Community Agreement by a party, upon written notice from the other party describing the breach, the breaching party shall promptly remedy such breach. In case remedial action is not taken or not diligently pursued by the breaching party within thirty (30) days of such written notice, the other party may at anytime thereafter (regardless of whether the breach is cured following the expiration of the thirty (30) day cure period) terminate this Host Community Agreement via written notice to the other party.

Section 14. Termination. In addition to the termination rights within Sections 9 and 13 of this Host Community Agreement, if any third party that is unaffiliated with the Company or the Board or District commences formal legal proceedings to invalidate any provision of this Host Community Agreement, then the Company and the District shall have the right to terminate this Host Community Agreement by providing ten (10) days advance written notice of termination to the other party. If Ohio EPA questions the lawfulness of any provision herein, then a party may require this Host Community Agreement be terminated, but only after the terminating party notifies the non-terminating party of such desire and only after the terminating party spends the next thirty (30) days working diligently to attempt to address Ohio EPA's concerns.

Section 15. Notices. Written notice required to be given under this Host Community Agreement shall be sufficient if delivered personally or mailed by certified mail with return receipt requested with proper postage to:

For the District and Board:

District Director
Lorain County Solid Waste Management District
226 Middle Avenue
Elyria, Ohio 44035

For the Company:

General Manager
Elyria Business Unit Republic Services, Inc.
40195 Butternut Ridge Road
Elyria, Ohio 44035

and

Republic Services, Inc.
Attention: General Counsel
18500 North Allied Way
Phoenix, AZ 85054

Any change in address must be given in like manner.

Section 16. Entire Agreement. This Host Community Agreement represents the entire agreement of the parties as to its subject matter and supersedes all other prior written or oral understandings. This Host Community Agreement may be modified or amended only by a writing signed by both parties. This Agreement was thoroughly reviewed and negotiated by all parties and shall be construed without regard to any presumption or other rule requiring construction against the party causing this Agreement to be drafted.

Section 17. Waiver. No waiver, discharge or renunciation of any claim or right of either party arising out of breach of this Host Community Agreement by the other party shall be effective unless in writing and signed by the other party.

Section 18. Applicable Law. This Host Community Agreement shall be governed by, and construed in accordance with, the laws of the State of Ohio.

Section 19. Binding Effect: No Third Party Beneficiaries. This Host Community Agreement shall be binding upon and shall inure to the benefit of, and be enforceable by and against, the respective successors and assigns of each. Nothing in this Host Community Agreement is intended to confer any rights on any person or entity, or to establish any third party beneficiary rights or obligation, other than as to the parties specifically referenced herein and their respective successors and assigns.

IN WITNESS WHEREOF, the parties have hereunto set their hands on the dates indicated below.

[The remainder of this page is intentionally left blank.]

THE BOARD OF DIRECTORS OF THE
LORAIN COUNTY SOLID WASTE
MANAGEMENT DISTRICT

By: _____

Date: _____

By: _____

Date: _____

By: _____

Date: _____

THE BOARD OF COMMISSIONERS OF
LORAIN COUNTY

By: Jon Rokoski

Date: MAY 13 2015

By: [Signature]

Date: MAY 13 2015

By: [Signature]

Date: MAY 13 2015

LORAIN COUNTY LANDFILL, LLC

By: [Signature]
John Meyer

Title: Area President

Date: 5/6/15

Exhibit A

Building Name	Address
Lorain County Administration Building	226 Middle Avenue
Charles Berry Bascule Bridge Building	103 East Erie Avenue
Lorain County Collection Center	540 South Abbe Road
Lorain County Transit Garage	530 South Abbe Road
Dog Kennel Building	301 Hadaway Court
Gates Building / Emergency Management Agency	322 North Gateway Blvd.
Golden Acres Nursing Home Building	45999 North Ridge Road
Lorain County Job & Family Services Building	42485 North Ridge Road
Lorain County Justice Center	225 Court Street
Lorain County Regional Airport Building	44050 Russia Road
Lorain County Sanitary Engineer Building	247 Hadaway Street
Transportation & Community Building	40 East Avenue
Workforce Development Building	42495 North Ridge Road
Lorain County Warehouse	24 East Avenue
Lorain County Board of Elections	1985 North Ridge Road
Lorain County General Health District Building	9880 South Murray Ridge Road
Lorain County Juvenile Detention Center	9967 Murray Ridge Road
Eaton Waste Water Treatment Plant	National Drive
Lorain County Engineer's Garage	42100 Russia Road
Lorain County Sheriff's Office	9896 Murray Ridge Road
Lorain County Agricultural OSU Extension Office	42110 Russia Road
Lorain County Alcohol and Drug Abuse Services Inc.	374 Broad Street

Exhibit B

Exhibit B

LORAIN COUNTY SOLID WASTE MANAGEMENT DISTRICT
DISPOSAL FEE CERTIFICATION STATEMENT

FOR THE MONTH OF: _____

FACILITY NAME: _____

OHIO I.D. NO.: _____

- A. \$2.00 per ton for disposal of solid waste generated in the county or joint solid waste management district.

TOTAL TONNAGE: _____ TOTAL AMOUNT SUBMITTED: _____ \$

- B. \$2.00 per ton for disposal of solid waste from outside the county or joint solid waste management district where the solid waste is generated, but inside of Ohio.

TOTAL TONNAGE: _____ TOTAL AMOUNT SUBMITTED: _____ \$

- C. \$2.00 per ton for disposal of solid waste from outside the county or joint solid waste management district where the solid waste is generated, but outside of Ohio.

TOTAL TONNAGE: _____ TOTAL AMOUNT SUBMITTED: _____ \$

- D. \$.60 per ton for disposal of solid waste from outside the county per contract fee.

TOTAL TONNAGE: _____ TOTAL AMOUNT SUBMITTED: _____ \$

TOTAL FEES SUBMITTED: _____ \$

I HEREBY CERTIFY THAT THE ABOVE STATEMENTS ARE TRUE AND CORRECT.

AUTHORIZED SIGNATURE

PRINTED NAME AND TITLE

DATE