

**Via Courier** 

August 29, 2018

SOLID WASTE
APPROVED
OHIO ENVIRONMENTAL PROTECTION AGENCY
11/20/2018
AS EVIDENCED BY COPY OF
LETTER OF APPROVAL
ATTACHED HERETO

RECEIVED AUG 2 9 2018 OHIO EPA ~ DMWM

Mr. Matthew Hittle Ohio Environmental Protection Agency 50 West Town Street, Suite 700 Columbus, Ohio 43215

Dear Matthew,

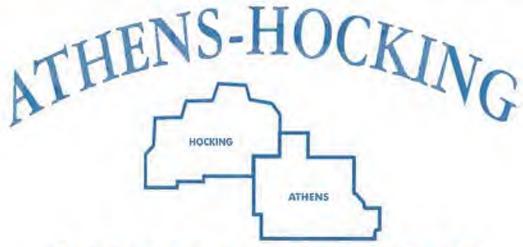
Enclosed is one copy of the Athens-Hocking Solid Waste District's ratified Solid Waste Management Plan Update for your final review. If you have questions about the *Plan Update* during your review, please call me at (740) 753-6885 or our consultant, Jim Skora, at (330) 689-1105. We look forward to your review and comments.

Sincerely,

Roger Bail

**District Coordinator** 

Enclosure



# SOLID WASTE DISTRICT

2018 – 2032 RATIFIED SOLID WASTE MANAGEMENT PLAN UPDATE

August 22, 2018

Prepared by:



#### ATHENS-HOCKING SOLID WASTE DISTRICT

#### 2018 - 2032 RATIFIED PLAN UPDATE

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#### I. Introduction

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

#### Under current approved plan:

Date of Ohio EPA approval

or order to implement: June 12, 2012

Counties within district: Athens and Hocking

Years in planning period: 15

#### Plan to be implemented with approval of this document:

Counties within District: Athens and Hocking

Years in planning period: 15

First year of the planning period: 2018

#### B. Reason for Plan Submittal

Mandatory five-year plan update.

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

Ohio law [ORC Section 3734.56(D)] requires district plans to be updated when the District Board of Directors determine that circumstances are materially changed from those addressed in the approved plan. If a plan update is required due to a material change in circumstances, the plan update must address those portions of the plan that need to be modified due to the change.

A plan amendment involving fees or designation that does not require modification of any other part of the plan requires ratification, but not Ohio Environmental Protection Agency approval. However, if any other portion of the plan is modified, the entire plan must be updated. Moreover, the updated plan must be ratified, submitted to Ohio EPA, and obtain Ohio EPA's approval prior to becoming effective.

#### 1. Determination Criteria

In determining whether a material change has occurred, the Board of Commissioners will consider the following:

- Waste generation; including the addition or loss of industrial waste generation, commercial waste generation, and/or residential waste generation.
- Change in the availability of capacity, causing a capacity shortfall prior to the next planned five-year update to the District Plan.
- Strategies for waste reduction and/or recycling, limiting the ability of the district to honor the reduction goals itemized in the State Plan.
- The availability of revenues for plan implementation.
- e. Changes in the procedures to be followed for plan implementation;
- f. Changes in the timetable for implementation of programs and/or activities;
- g. Any other factor that the Board considers relevant.

#### 2. Monitoring Procedures

The Determination Criteria will be evaluated based on information obtained through the District Policy Committee's annual review of the approved plan, and/or the District Staff's monitoring programs. The staff monitoring program includes the following:

- a. Quarterly analysis of District revenues;
- Analysis of information acquired by District Staff for preparation of the District's Annual Report for Ohio EPA;
- Information acquired by District Staff through follow-up investigations of citizen complaints which indicate the existence of deviations from or noncompliance with the District plan; and
- d. Analysis of information voluntarily provided to the District Staff by state or local officials and employees, or owners and operators of solid waste collection, disposal, transfer, or recycling operations, which indicate the existence of deviations from and/or noncompliance with the District's plan.

The Policy Committee or the District's staff will immediately notify the Board of Commissioners of any reliable information that is likely to establish that a significant or substantial change from the circumstances addressed in the District's approved plan has occurred.

#### 3. Timetable for Making the "Material" Change Determination

Within 10 days from receipt of notification from the District Staff under paragraph 2, above, the Board of Directors shall request the District Staff to prepare a report which discusses the effects that the changed circumstances identified in the District's Staff notice to the Board of Directors may have on the criteria listed in Section C.1. of this chapter. The District Staff shall prepare the report and submit it to the Board of Directors within thirty days of the Board's request. Within ten days after the receipt of the District Staff's report, the Board shall decide whether additional information is necessary for the Board to determine whether a material change has occurred. If the Board determines that additional information is required, the District Staff shall revise its report to include such additional information and submit its final report within twenty days from the Board's request for additional information.

Within sixty days after the Board's receipt of the District Staff's final report, the Board shall decide whether the changed circumstances are material pursuant to the criteria listed in paragraph 1, above. During that time, the Board may obtain such information from sources other than the District Staff as the Board deems necessary and proper to making its determination of whether a material change has occurred.

#### 4. Notification Procedure After Making Determination

Upon the Board's determination that a material change has occurred, the Board shall notify the District Policy Committee, in writing, within ten days of the Board's determination. The Board's notice shall request the District Policy Committee to prepare a draft amended solid waste plan, pursuant to ORC 3734.56 (D), that amends the district plan to address the direct and indirect effects of any such material change in circumstances. The Board of Directors will also notify Ohio EPA of its determination.

#### D. District Formation and Certification Statement

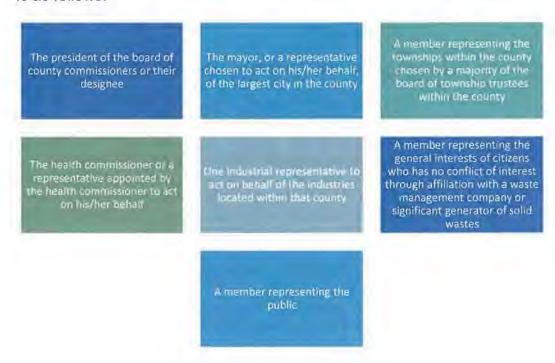
The District is comprised of Athens and Hocking counties. The District's border counties are Fairfield, Perry and Morgan to the north, Washington to

the east, Meigs and Vinton to the south, and Ross and Pickaway to the west. U.S. 33 is the main route traveling southeast and northwest. The City of Athens in Athens County and the City of Logan in Hocking County are the largest municipal populations in the District and each serves as the county seat for their respective counties. There is one licensed solid waste landfill in Athens County (Athens-Hocking Reclamation Center) that provides solid waste disposal services for the District.

The District formed on June 15, 1993. A copy of the resolution to establish the District is submitted in Appendix A. 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 Board asserting that the contents of the *Plan Update* are true and accurate is included in Appendix C. The certification statement was signed by a majority of the Board members for both the draft amended *Plan Update* and the ratified draft amended *Plan Update*. Appendix C also includes resolutions by the Board 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. Policy Committee Members

The Policy Committee for the District is comprised of seven representatives from each county and one member. The representation within each county is as follows:



The following Policy Committee members are listed in accordance with the political jurisdictions and constituencies they represent:

#### **Athens County**

Policy Committee Member	Representing					
Lenny Eliason	County Commissioners, Policy Committee Chairman					
Steve Patterson, Mayor	Interests of the City of Athens					
Jack Pepper	Interests of the Health District Interests of Townships					
Ted Linscott						
Nancy Bain	Public General Interests of Citizens Interests of Industries					
Charles Barga						
Steve Wood						
John Kotowski	General Interests of Citizens/District at Large					

#### **Hocking County**

Policy Committee Member	Representing
Jeff Dickerson	County Commissioners
Kevin Farmer	Interests of the City of Logan
Douglas Fisher	Interests of the Health District
Sam Eggleston	Interests of Townships
Keith Farmer	Public
William Kaeppner	General Interests of Citizens
Jim Raeder	Interests of Industries

#### F. Board of County Commissioners

Board Member	Role					
Chris Chmiel	Athens County Commissioner					
Lenny Eliason	Athens County Commissioner					
Charlie Adkins	Athens County Commissioner					
Gary Waugh	Hocking County Commissioner					
Sandra Ogle	Hocking County Commissioner					
Jeff Dickerson	Hocking County Commissioner					

#### G. District Address and Phone Number

Physical Address: Athens-Hocking Solid Waste District

1121 Chestnut Street Nelsonville, Ohio 45764 Mailing Address: P.O. Box 693

Athens, Ohio 45701

Contact: Mr. Roger Bail

District Coordinator

Phone Number: (740) 753-6885 Fax Number: (740) 753-6919

Email Address: ahswd@nelsonvilletv.com

Website: www.ahswd.org

#### H. Technical Advisory Council and Other Subcommittees

The District did not establish a Technical Advisory Committee during the preparation of the *Plan Update*.

#### I. Policy Committee Review of Plan Update

The Policy Committee shall annually review implementation of the *Plan Update* under section 3734.55 of the Ohio Revised Code and report its findings and recommendations regarding implementation of the Plan to the District's Board of Directors.

#### II. Executive Summary

The Athens-Hocking Solid Waste 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 fifteen-year planning period beginning in 2018 and ending in 2032. This *Plan Update* includes a description of District programs and projections for solid waste generation, recycling and disposal for fifteen 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 (2015).

#### 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

The District formed on June 15, 1993. The District includes all incorporated and unincorporated territory in Athens County and Hocking County.

The current Plan was approved by Ohio EPA on June 12, 2012 and includes a fifteen-year planning period. This *Plan Update* begins with the planning year 2018 and includes a fifteen-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:

#### **Athens County**

Policy Committee Member	Representing					
Lenny Eliason	County Commissioners, Policy Committee Chairman					
Steve Patterson, Mayor	Interests of the City of Athens					
Jack Pepper	Interests of the Health District					
Ted Linscott	Interests of Townships Public					
Nancy Bain						
Charles Barga	General Interests of Citizens					
Steve Wood	Interests of Industries					
John Kotowski	General Interests of Citizens/District at Large					

#### **Hocking County**

Policy Committee Member	Representing				
Jeff Dickerson	County Commissioners				
Kevin Farmer	Interests of the City of Logan				
Douglas Fisher	Interests of the Health District				
Sam Eggleston	Interests of Townships				
Keith Farmer	Public				
William Kaeppner	General Interests of Citizens				
Jim Raeder	Interests of Industries				

#### **Board of County Commissioners**

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

#### **County Commissioners**

Board Member	Rale			
Chris Chmiel				
Lenny Eliason	Athens County Commissioners			
Charlie Adkins				
Gary Waugh				
Sandra Ogle	Hocking County Commissioners			
Jeff Dickerson	Market & County County County			

# 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 (2015) 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 District's population estimate of 94,377 was calculated using the Ohio Development Services Agency (ODSA) Office of Research publication, 2015 Population Estimates by County, City, Village & Township, May 2016.

Based upon Ohio Revised Code requirements, the entire population of political subdivisions located in more than one solid waste district must be credited to the district containing the largest portion of the jurisdiction's population. No political subdivisions in the District were located in more than one solid waste management district. Therefore, no population adjustments were necessary.

#### 2. Waste Generation

Residential and commercial waste generation was calculated to be 74,431 tons in 2015, including 60,014 tons landfilled (see Table III-1) and 14,417 tons recycled, including composting (see

Table IV-5). Based on the District population, this is 4.32 pounds per person per day of residential/commercial waste generation.

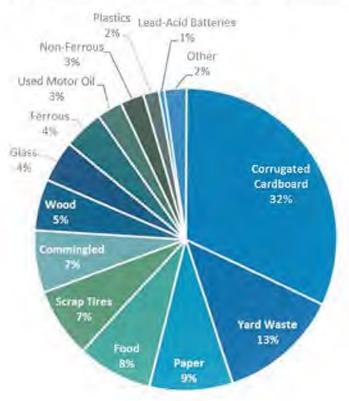
Industrial waste generation in 2015 was 3,746 tons. This includes 2,948 tons landfilled (see Table III-1) and 809 tons recycled (see Table IV-6). Based on the District population, this is 0.22 pounds per person per day of industrial waste generation.

#### 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, yard waste management, household hazardous waste (HHW) management, scrap tire collection, electronics recycling, Recycle Day events, commercial cardboard collection, school recycling, and other recycling completed by residential or commercial entities in the District.

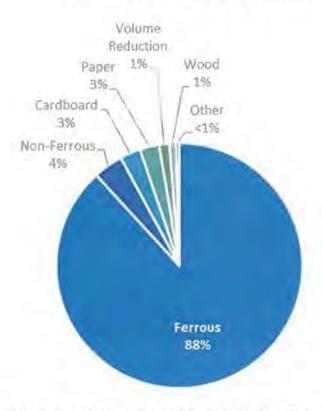
The following graph depicts the residential and commercial waste reduction totals as a percentage for 2015:

## 2015 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 2015.

#### 2015 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 (2018 – 2032). New programs and changes to existing programs are presented in this section.

#### Population Projections

Population is expected to decrease 2.5% from the reference year to the end of the planning period. The total number of residents is expected to decrease by 2,229 residents over the planning period. The District is projected to start the planning period in 2018 with a population of 94,259 and end in 2032 with a total population of 92,030.

#### 2. Waste Generation Projections

#### Residential/Commercial Sector

The total residential/commercial waste generation estimate for 2015 is 74,431 tons, or 4.32 pounds per person per day (PPD). The per capita residential/commercial waste generation rate is projected to increase in even intervals each year until 2025, when the per capita generation rate will peak at 4.41 PPD, then remain flat for the remainder of the planning period. Waste generation will peak in 2025 at 75,118 tons. Though the per capita generation rate will remain flat from 2025 to 2032, decreases in population result in a decrease in the total tons generated. By 2032, the total volume generated by the residential/commercial sector are projected to decrease to 74,032 tons.

#### Industrial Sector

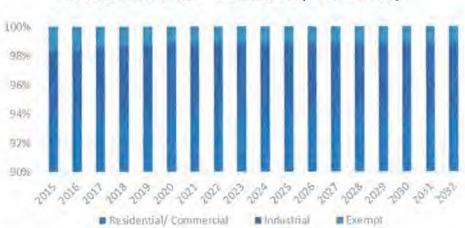
Industrial waste generation is projected for industries categorized in Standard Industrial Classification (SIC) codes 20, and 22 through 39. Table V-3 presents the industrial waste generation projections from the reference year through the end of the planning period. In 2015, the industrial sector generated 3,746 tons. Due to the limited industrial sector data available, industrial sector waste generation has been projected to remain flat throughout the planning period based on volumes known in 2015.

#### Total Waste Generation

The total waste generation estimate for the 2015 reference year is 79,542 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 (2015 – 2032)

#### 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 from 14,417 tons in 2015 to 15,668 tons in 2032.

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 remain flat throughout the planning period. 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 2018 – 2032.

#### 1. District Methods for Management of Solid Waste

Projections estimate that the net tons that will be generated in the District will be approximately 79,609 tons in the first year of the planning period (2018) and 78,667 tons in the last year of the planning period (2032). 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 majority of the District's waste will continue to be managed through landfilling during the planning period. Landfilling accounts for approximately 81 percent of the total waste managed in 2015, and this proportion decreases slightly over the planning period as recycling, waste reduction and composting increase modestly.

#### 2. Demonstration of Access to Capacity

During the 2015 reference year, one in-district, seven out-of-district, and two out-of-state landfills managed 64,327 tons of solid waste generated by District residents, businesses and industries. The landfill located within the District, the Athens-Hocking Reclamation Center Landfill, managed approximately 40,623 tons in 2015, or approximately 63 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, 2032. The ten landfills presented in the following table have sufficient permitted capacity to manage the 945,241 cubic yards of solid waste which is projected needing disposal throughout the planning period. Half of the landfills have at least 25 years of available capacity. The Athens-Hocking Reclamation Center Landfill is projected to be in operation managing solid waste for at least another 51 years.

#### Landfills Used by the District in 2015

Eventually and a	Remaining Capacity			
Facility Number	County	Years	Net Tons	
Athens Hocking Reclamation Center Landfill	Athens	51.2	9,434,124	
Rumpke Hughes Road Landfill	Hamilton	14	23,619,742	
Pike Sanitation Landfill	Pike	75	17,402,740	
Pine Grove Regional Facility	Fairfield	60.1	14,490,356	
Tunnel Hill Reclamation Landfill	Perry	22	22,229,913	
Suburban Landfill	Perry	20	8,069,759	
Beech Hollow Landfill	Jackson	62	2,102,480	
Gallia County Sanitary Landfill	Gallia	27.6	616,105	
South Side Landfill	Marion (IN)	19	24,205,639	
Northwestern Landfill	Wood (WV)	DNR	DNR	

#### 3. Identification and Designation of Facilities

The District is not designating any facilities in this *Plan Update*. The District reserves the right to designate one or more facilities to receive solid waste.

#### 4. Siting Strategy for Facilities

The Athens-Hocking Solid Waste District has not chosen to include a siting strategy for solid waste disposal or transfer facilities in this Plan.

#### 5. Contingencies for Capacity Assurance and District Program Implementation

The District does not see any occurrence that would significantly limit the disposal capacity available to the District. Therefore, no alternative strategy for disposal capacity is included in this Plan.

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

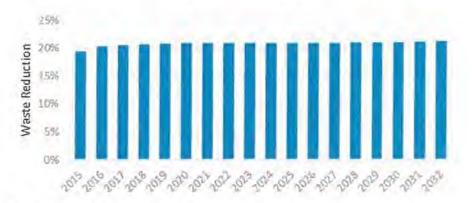
#### Compliance with Goal #1

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 2018, the first year of the planning period, the District is projected to achieve a 100% recycling access rate for the residential sector.

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 (2015) was 19 percent. The waste reduction rate is expected to increase to 21 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 (2015 – 2032)



#### G. Section VIII. Cost of Financing Plan Implementation

#### Funding Mechanisms

#### a. District Disposal Fees

During the reference year, the disposal fee schedule was \$1.00 per ton for in-district waste, \$2.00 per ton for out-of-district waste and \$1.00 per ton for out-of-state waste. In 2015, the disposal fee yielded \$207,180 in revenue.

More than half (approximately 56-57%) of disposal fee revenue is collected from tonnage generated out-of-state. The following figure presents the actual and projected disposal fee revenue by fee type:

#### District Disposal Fee Revenue by Fee Type



#### Generation Fee

In accordance with Section 3734.573 of the Ohio Revised Code and under the District's current Solid Waste Management Plan, the District collects a \$3.00 per ton generation fee on municipal solid waste generated within the District. The District does not plan to increase the generation fee for this *Plan Update*.

#### c. Grants

The District received Ohio EPA grants from 2015 to 2017 totaling \$46,988. Grants are competitive and not guaranteed; therefore, the District is not including grant revenue projections into this *Plan Update*. The District reserves the option to apply for grants on an as-needed basis throughout the planning period.

#### d. Pass-Through Grants

In 2015, the District served as a pass-through agent for an Ohio EPA grant. The District is not projecting additional pass-through grants for this *Plan Update* but may serve as a pass-through agent on an as-needed basis.

#### e. Reimbursements

The District received reimbursement revenue from the City of Athens and Athens Township for HHW collection events in 2016. The District is not projecting additional reimbursement revenue for the remainder of the planning period.

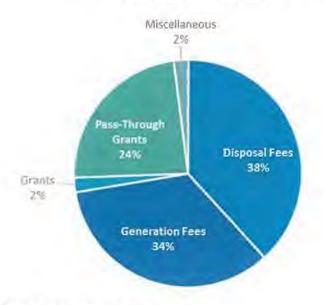
#### f. Miscellaneous

The District received revenue from the liquidation of assets from 2015 to 2017 as a result of the District's restructuring. The District does not anticipate any additional revenue from this source during the planning period.

#### g. Total District Revenues

In 2015, total revenue was \$547,666. During the first year of the planning period, total revenue is projected to be \$396,864. Revenue is projected to decrease to \$393,134 by 2032, the final year of the planning period.

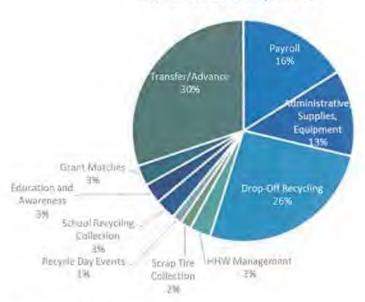
#### Percentage of Revenue Generated in 2015 by Type of Funding Mechanism



#### 2. Cost of Plan Implementation

Section VIII includes an explanation of each expense line item and/or an explanation of the annual escalator. The following figure presents the major expenditures and percentage of the total budget for 2015:





#### 3. 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 adjusting the funding mechanisms if necessary to implement the *Plan Update*. However, before any adjustments to the District's funding mechanisms would be considered, 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.

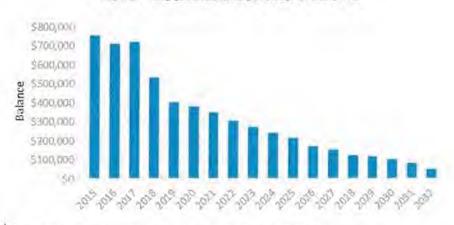
#### 4. Summary of Costs and Revenues

A summary of District revenues and expenditures for each year of the planning period is included in Table VIII-8. Revenue is projected to decrease from \$547,666 in 2015 to \$393,134 in 2032. Expenditures in 2015 were \$498,066. Throughout the planning period, expenditures are projected to average \$440,573 annually. The following figure presents the District's actual and projected revenue and expenditures from 2015 to 2032.

\$600,000 \$400,000 \$200,000 \$100,000 \$00,000 \$100,00

District Revenue and Expenses (2015 - 2032)

The District is projected to begin the planning period with a carryover balance of \$720,967 and conclude the planning period with a balance of approximately \$52,637. Each year of the planning period is projected to have adequate funding for each of the programs. The following figure presents the District's ending balance from 2015 to 2032.



2015 - 2032 District Fund Balance

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

#### Existing Rules

The Athens-Hocking Solid Waste District has not adopted rules.

#### 2. Proposed Rules

At this time, the Athens-Hocking Solid Waste District does not plan to adopt rules. Since changes may occur during the planning period, the District reserves for the Board of Directors the power to make and enforce rules to the fullest extent authorized by Ohio law.

#### Table ES-1 General Information

Dist	rict Na	me: Ath	ens-Hocking Solid \	Was	ste D	istrict			
Dist	rict ID	#			R	eference Yea	r: 20	15	Planning Period: 2018-2032
_		use only							
Pis	I Stati	us (und	erfine uno)						1
D	RD	DR	Approved (date)	1	1	OI (date)	1	1	Reason for Plan Submittal: Mandatory five year update

Table ES-2
District/Coordinator/Office

Name:	Mr. Roger Bail, Coordinator						
Address:	P.O. Box 693						
City:	Athens	State: Ohio	Zip Code: 45701				
Phone:	(740) 753-6885	Fax: (740) 753-691	9				

Table ES-3 Plan Data Summary

Plan Date Population		Reference Year 2015	2022 (year 5) 93,860	2027 (year 10) 93,060
		94,377		
	Industrial	3,746	3,746	3,746
Generation	Res/Comm	74,431	75,060	74,861
	Exempt	1,364	889	889
Total Generation (tons)		79,542	79,695	79,495
Waste	Industrial Recycling	798	798	798
Reduction	Res/Comm Recycling	12,566	13,817	13,817
Reduction	Yard Waste Composting	1,851	1,851	1,851
otal Waste Reduction (tons)		15,215	16,466	16,466
Dianagal	In-District Landfills	40,623	39,930	39,804
Disposal	Out of District Landfills	23,704	23,299	23,226
otal Landfill (to	ns)	64,327	61,229	63,030
Waste	Industrial	21.3%	21.3%	21.3%
Reduction Rate	Residential/Commercial	19.4%	20.9%	20.9%

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 Lott
In-District Landfills				
Athens Hocking Reclamation Center Landfill	Athens	40,623	176,723	51.20
Out-of-District Landfills				
Rumpke Hughes Road Landfill	Hamilton	7	1,659,940	14.20
Pike Sanitation Landfill	Pike	10	231,589	75.10
Pine Grove Regional Facility	Fairfield	97	241,160	60.10
Tunnel Hill Reclamation Landfill	Perry	1,858	1,011,991	22.00
Suburban Landfill	Perry	2,136	404,152	20.00
Beech Hollow Landfill	Jackson	19,429	340,699	61.70
Gallia County Sanitary Landfill	Gallia	23	22,306	27.60
Out-of-State Landfills				
South Side Landfill	Marion (IN)	15	743,008	19.00
Northwestern Landfill	Wood (WV)	129	DNR	DNR
Total/Average	84,327	4,831,566	38.00	

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 2015 reference year. The reference year is the baseline 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.

This section of the *Plan Update* describes how solid waste was collected, reduced, recycled, disposed, and ultimately managed in the two-county region of the Athens-Hocking Solid Waste District during 2015.

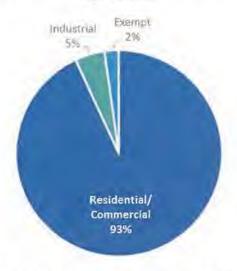
#### A. The Reference Year

The District will use calendar year 2015 as a reference year for all subsequent projections in the Plan.

#### B. Existing Solid Waste Landfills

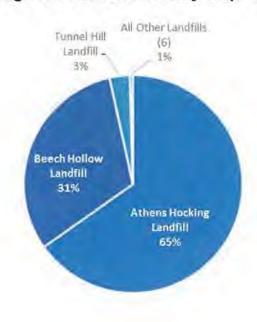
Table III-1, "Landfills Used by the District" presents a list of the landfills that received directly hauled solid waste from the District. There is currently one operating MSW landfill located in the District. District-generated solid waste that was directly hauled (versus transferred) was managed at one in-district landfill, seven out-of-district landfills, and one out-of-state landfill located in West Virginia. Approximately 61,981 tons of solid waste was directly hauled to landfills for disposal in 2015 for Ohio landfills. The residential/commercial sector generated 93% of the waste that was directly hauled and the industrial sector generated 5% of all directly hauled waste. Exempt waste represented approximately 2% of the waste that was directly hauled. Exempt waste can include earth or materials from construction, mining, or demolition operations, nontoxic fly ash, nontoxic bottom ash, or slag. The following figure presents the percent of direct hauled solid waste generated by each sector in 2015:

2015 Percentage of Directly Hauled Solid Waste Generated by Sector



The Athens Hocking C&DD/Reclamation Center Landfill, which is located in-district, received the largest portion directly hauled solid waste (65%), followed by Beech Hollow Landfill (31%) in Jackson County, Ohio, and the Tunnel Hill Reclamation Landfill (3%) in Perry County, Ohio. The remaining waste, which represented approximately 1% of the directly hauled solid waste, was managed at five out-of-district landfills and one out-of-state landfill in West Virginia. The following figure presents the percentage of total tons directly disposed at each landfill.

2015 Percentage of Total Tons Directly Disposed by Landfill



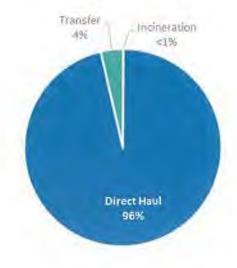
The following map presents the locations of landfills that accepted directly hauled solid waste generated in the District.



2015 Landfills that Accepted Directly-Hauled Solid Waste

Direct hauling was the primary method of waste disposal. Approximately 96% of waste was disposed by direct hauling and 4% was first delivered to a transfer station before being hauled to a landfill. Less than 1% of waste was managed at incinerators. The following figure presents the methods used to manage solid waste by percentage of the total waste disposed.





#### C. Existing Incinerators and Resource Recovery Facilities

Table III-2, "Solid Waste Incinerators and Waste-to-Energy Facilities Used by the District," presents solid waste incinerators or waste-to-energy facilities used by the District. One out-of-district incinerator and one out-of-state medical waste incinerator located in Indiana were used to manage a negligible quantity (15.6 tons) of solid waste generated in the District during the reference year. There were no incinerators or waste-to-energy facilities operating in the District during 2015.

#### D. Existing Transfer Facilities

Table III-3, "Solid Waste Transfer Facilities Used by the District," presents the transfer facilities that accepted District-generated waste in 2015. Approximately 2,330 tons of waste were managed by two out-of-district transfer stations. No transfer stations were located in the District during the reference year.

The following map presents the locations of transfer stations and incinerators used by the District.



#### 2015 Transfer Stations and Incinerators Used by the District

# E. Existing Recycling and Household Hazardous Waste Collection Activities

Table III-4, "Residential Curbside Recycling Activities Used by the District," presents residential curbside recycling activities operating in the District. During the reference year, there was one non-subscription curbside recycling program and seventeen subscription curbside recycling programs.\(^1\) All of the municipalities that had curbside recycling in 2015 were located in Athens County, with the exception of the City of Logan, which is located in Hocking County. The total number of subscribers per community was not available for most locations, but the dominant recycling hauler, Athens Hocking Recycling Centers (AHRC), was able to provide the total

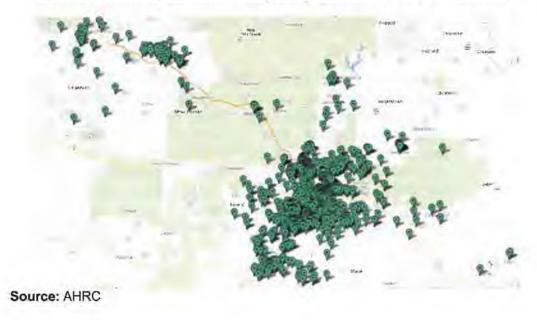
<sup>&</sup>lt;sup>1</sup> The total subscription programs referenced in this *Plan Update* are greater than those reported in the 2015 ADR. More detailed information on residential recycling accounts was provided by the dominant recycling hauler in the District after the ADR was submitted.

residential sector single-family households served by AHRC, which was approximately 1,036 households. The City of Nelsonville was the only curbside recycling program operating in the District that was serviced by a hauler other than AHRC. The hauler, Southern Ohio Disposal, estimated approximately 230 households had subscription curbside recycling. Neither hauler was able to provide the total curbside recycling tonnage for curbside recycling due to the inability to track tonnage separately from other routes and programs each party operates. However, recyclables collected by both haulers were delivered to AHRC (January 2015 – June 2015) and Rumpke Recycling Center in Columbus (June 2015 – January 2016) so the total tonnage is reflected in the residential/commercial sector's 2015 recycling.

Recyclables were delivered to Rumpke from June 2015 to January 2016 because Ohio University's and the City of Athens' contracts required single stream recycling collection. AHRC began collecting single stream recycling before their MRF was completed and able to sort single stream materials.

The subscription-based communities listed in Table III-4 reflect only communities that had confirmed subscribers during 2015. Additional communities such as the unincorporated community of Union Furnace (Hocking County) had access to subscription curbside recycling during 2015 but were not included in Table III-4 because there were no subscribers in those areas. There are more communities listed in Table III-4 than were reported in the ADR because at the time the District prepared the ADR, information on additional communities with curbside recycling was not provided by AHRC. The District could only report on information it had access to by the ADR deadline. The following map presents the locations of confirmed curbside recycling customers in the District:

#### 2015 Confirmed Curbside Recycling Customers in the District



The following map presents the areas where residents had access to and participated in curbside recycling activities based on the locations of confirmed curbside recycling customers:

# SALT CORES DESIGNATION Curbside Recycling Subscription Curbside Recycling Subscription Curbside Recycling

#### 2015 District Curbside Recycling Programs

Table III-5, "Drop-offs, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District," contains a list facilities and activities used to manage recyclables generated in the District. Information in this table is based on results of surveys, facility records, and direct inquiry.

There were six publicly available full-time recycling drop-offs and eighteen part-time recycling drop-offs in operation during 2015. Full-time status indicates that drop-offs are available for at least 40 hours per week. District drop-offs accepted at a minimum, papers (newspaper, office paper, magazines), aluminum cans (beverage cans), steel cans (soup cans, etc.), plastics #1—#7 with the exception of polystyrene, and cardboard. The following figure presents the locations of each drop-off facility that operated during 2015. The four-digit numbers accompanying each recycling drop-off icon in the following maps represent the identification number issued by Ohio EPA that is published in the District's Implementation Schedule. Drop-offs that were not issued an ID are labeled with a name that identifies where the recycling site is located.

# TRIMBLE (Secondary) -COSTINUE | B-193| WILLER \$516'A] DOVER YORK BERN (S) |54961 (<del>4)</del> [290] WATERLOO ATHENSE ROME STEWART CANAMY 8 LEE @(00) ALEX ANDER TROY CARTHAGE [5439] HOCFING! CYT 0 2.25 45 9 Miles Full-Time Recycling Orap-Offs Part-Time Recycling Brop-Offs

# 2015 Athens County Drop-Off Recycling Facilities

Three full-time public drop-offs and ten part-time public drop-offs were available in Athens County during 2015.

# WW/ PELLS WARION (S) GOOD HORE 10527 FALLS DREEN PERRY WARD LAUREL FALLS CHECKINILL MAI LAURELVILLE [5507] WASHINGTON STARR SALT CREEK BENTON 8 Miles Full-Time Recycling Drop-Offs Part-Time Recycling Drop-Offs

# 2015 Hocking County Drop-Off Recycling Facilities

Three full-time public drop-offs and eight part-time public drop-offs were available in Hocking County during 2015.

Additional activities and infrastructure used to manage recyclables generated in the District during 2015 included:

- Five haulers which provided recycling collection from residents, businesses, and industries.
- Three material recovery facilities (MRFs) which accepted recyclables collected from the District.
- Three in-district scrap yards.
- Sixteen automotive service centers/stores that accepted materials such as lead-acid batteries and used oil for recycling from residents.
- Several commercial stores that operated internal recycling programs and reported recycling directly to Ohio EPA.
- Seven major tire recyclers that collected scrap tires generated in the District.
- Special collection events for scrap tires, electronics, HHW, and other materials were held by the District and other entities.

Other recycling reported to the District by commercial and industrial sector generators that indicated using haulers, brokers, or processors not otherwise mentioned were summarized and included in Table III-5.

# F. Existing Composting/Yard Waste Management Facilities

Table III-6, "Composting/Yard Waste Management Activities used by the District," includes facilities and programs used to manage organics generated in the District. In Athens County during 2015, two Class II compost facilities, one Class III compost facility, and one class IV compost facility operated. There was one Class IV compost facility in Hocking County, but that facility did not report managing any organics during the reference year. One out-of-district facility managed organics generated in the District. In addition to composting conducted at registered compost facilities, multiple cities in the District collected leaves. Rather than transport the materials for a composting facility, the leaves were spread on fields and farmland to breakdown and eventually become a soil amendment. Food waste haulers and commercial stores that diverted food waste are also included in Table III-6. In 2015, 1,431 tons of yard waste and 1,165 tons of food waste was diverted from landfills. This is an overall total of 2,596 tons of organics diverted.

The following figure presents the locations of registered composting facilities and yard waste collection programs throughout the District:

# Cast Composification Cast Composification Cast Composification (Cast Composification (C

2015 Composting Facilities and Collection Programs

# G. Facilities Used by the District Which are Located Outside Ohio

One landfill in West Virginia and one waste-to-energy facility in Indiana were used to manage waste generated in the District (see Table III-7). Both of the facilities were privately owned.

# H. Existing Open Dumps and Waste Tire Dumps

The Ohio Environmental Protection Agency (OEPA) provided a list of known open dumps and waste tire dumps located in the District, which are presented in Table III-8, "Open Dumps and Waste Tire Dumps Located in the District." In 2015, there were four known open dumps and one illegal scrap tire dump located in the District. All sites were located in Hocking County. Each of the known open dumping sites achieved compliance during 2015. The illegal scrap tire dump site was not rectified by the time this *Plan Update* was prepared.

The following figure presents the open dumps and scrap tire dumps that existed during the 2015 reference year:

# nair melite HARRISH 0 PHILE GOOD HOPE BRIFA HURSHY DOWN DERRY WARD LAMBEL CHREDN HEL HAND BYILLS LAURELVILLE WASHINGTON STARP SALTCREEN SENTEN ø. 8 Miles 4 Open Dump Scrap Tire Dump

2015 Open Dumps and Waste Tire Dumps

# I. Ash, Foundry Sand, and Slag Disposal Sites

There are no known ash, foundry sand, or slag disposal sites located in the District (Table III-9).

# J. Map of Facilities and Sites

A full-size map of the District's facilities is included in Appendix E.

# K. Existing Collection Systems – Haulers

Table III-10, "Solid Waste Haulers Operating in the District," contains the haulers who provided service to waste generators in the District.

There were thirteen private sector haulers and one non-profit hauler that provided collection services within the District.

Table III-1 Landfills Used by the District

		Location	lon	Waster Re	Waste Received from the SWMD (TPY)	the SWMD	(YPY)
Facility Name	Турс	County	State	Residential/ Commercial	Industrial	Exempt	Total
In District Landfills							
Athens Hocking Cⅅ/Reclamation Center Landfill	PA, PO	Athens	Н	37,555.1	2,871.7	0.0	40,426.8
Out-of-District Landlills							
Rumpke Hughes Road Landfill	PA, PO	Hamilton	НО	9.9	0.0	0.0	9.9
Pike Sanitation Landfill	PA, PO	Pike	Н	3.0	0.0	7.4	10.4
Pine Grove Regional Facility	PA, PO	Fairfield	НО	27.8	4.3	64.9	97.0
Tunnel Hill Reclamation Landfill	PA, PO	Perry	Н	1,857.6	0.0	0.0	1,857.6
Suburban Landfill	PA, PO	Perry	НО	1.5	0.0	0.0	1.5
Beech Hollow Landfill	PA, PO	Jackson	Н	18,153.7	0.0	1,275.1	19,428.8
Gallia County Sanitary Landfill	PA, GO	Gallia	Ю	23.2	0.0	0.0	23.2
Out-of-State Landfills							
Northwestern Landfill	N/A	Wood	\M	91.2	21.1	16.9	129.2
Landfill Total				57,719.5	2,897.1	1,364.4	61,981.1
Waste to Energy Transfer Facilities							
Various (See Table III-2)	PA, PO	Various	NI/HO	0.1	15.5	0.0	15.6
Out-of-District Transfer Facilities							
Various (See Table III-3)	PA	Various	Н	2,294.8	35.4	0.0	2,330.3
Total				60,014.5	2,948.0	1,364.4	64,326.9
111							

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 disposed in 2015.

Source(s) of information: Ohio Environmental Protection Agency, 2015 Facility Data Report.

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

		100		Waste R	PRODEIVED	from the	SW/MD (T	(Ad	
and the same of th		HONOROW .		The state of the s				Total	Total Ach
Patenty Name	n Abo	County	Shite	Commercial	Industrial	Evempt	Total	Votume	Produces
In-District Facilities									P
None	NA	N/A	N/A	0.0	0.0	0.0	0.0	0.0	0.0
Out-of-District Facilities						Ì			
Stericycle	MED-IN	Geauga	НО	0.1	0.0	0.0	0.1	0.0	0.0
Out-of-State Facilities									
Indianapolis Resource Recovery Facility	W2E	Marion	Z	0.0		0.0	15.5	10.8	
TOBLE				0.1	15.5		15.6	10.8	4.7

MED-IN = medical waste incinerator, W2E = waste-to-energy

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

		Locat	lon	Waste Recel	red from th	NWS BE	риды	Recyclables	Processed
Facility Name	Npo			Residential/	The same of		10000	Recovered	-
		Country	State	Commercial	nemerial	жешы	Iniai	from Waste	(619)
In-District Facilities									
None	N/A	N/A	N/A		•	3		4	1
Out-of-District Facilities									
Meigs County Transfer Station	PA, PO		Ohio	196.1		ą	196.1	•	f
Waste Management of Ohio - Chillicothe PA, PA	PA, PA	Ross	Ohio	2,098.7	35.4		2,134.1	1	ā
Out-of-State Facilities									
None	N/A	N/A	N/A			1		1	
Total				2,294.8	35.4	•	2,330.3		

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

Source(s) of information: Ohio Environmental Protection Agency, 2015 Facility Data Report. 2015 Indiana Department of Environmental Management, 2015 Complete Solid Waste Quarterly Report Database.

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

Community	County	Туре	Population Served	Collection	Average is at Households	1	урег	of h	lateris	ile Ac	capb	ret.	Process from SWA
			1210100		Participating	W.C	UL	PL	ONP	OCC	SC	Mark	
Non-Subscription C										- 11			
City of Athens Non-Subscription C	Athens	NS, PAYT		Weekly	8,287	X	X	X	X	X	X	X	DNR
Subscription Cures			tai	_		-			-		-	_	N/A
Village of												-	
Albany/Lee Twp.	Athens	S, PAYT		Weekly		X	X	X	X	X	X	Х	DNR
Village of Amesville	Athens	S, PAYT		Weekly		X	X	X	X	X	X	X	DNR
City of Athens Subdivisions Outside Corporation Limits (i.e. Beachwood Estates, Hickory Hills, etc.)	Athens	S, PAYT		Weekly		x	x	x	x	x	x	x	DNR
The Plains	Athens	S, PAYT	1	Weekly	1	X	X	X	Х	X	X	Х	DNR
Village of Coolville	Athens	S, PAYT		Weekly	0 1	X	X	Х	X	X	Х	X	DNR
Unincorporated Community of Torch	Athens	S, PAYT		Weekly		x	x	x	x	x	x	x	DNR
Unincorporated Community of Stewart	Athens	S, PAYT		Weekly		x	x	x	×	X	x	x	DNR
New Marshfield (Census Designated Place)	Athens	S, PAYT	2,580	Weekly	1,036	x	x	x	x	х	x	х	DNR
Village of Jacksonville	Athens	S, PAYT		Weekly		X	X	x	X	X	x	x	DNR
Millfield (Census Designated Place)	Athens	S, PAYT		Weekly		x	x	x	x	х	x	X	DNR
Village of Chauncey	Athens	S, PAYT		Weekly		X	X	X	X	X	X	X	DNR
Village of Glouster	Athens	S, PAYT		Weekly		X	Х	X	Х	X	Х	X	DNR
Village of Trimble	Athens	S, PAYT		Weekly		X	X	X	X	X	X	X	DNR
Unincorporated Community of Rockbridge/Good Hope Twp.	Athens	S, PAYT		Weekly		x	x	x	x	x	x	x	DNR
Unincorporated Community of Guysville	Athens	S, PAYT		Weekly		x	x	x	x	x	x	x	DNR
Alexander Twp.	Athens	S, PAYT		Weekly								1,1	
City of Logan	Hocking	S, PAYT		Weekly		X	X	X	X	X	X	X	DNR
City of Nelsonville	Athens	S, PAYT	573	Weekly	230	X	X	X	X	X	X	X	DNR
Subscription Curbsi	de Recycl				-								N/A

PAYT = Pay-As-You-Throw; 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

Source(s) of Information: 2015 Annual District Report; Athens-Hocking Recycling Centers accounting records, ODOD - Estimated Housing Units for Ohio Places, County and County Subdivisions; U. S. Census Bureau, American Community Survey, 5-Year Estimates. Persons per household, 2009-2013.

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

	į			į	i		Comment of the partition Assumption	- Indian		Service Area				A of Material
rachitV/Activity	UVD-	¥	E		ÿ	1	W (MeD	PI OCC SC LAN MAP ST WG ON OH	County	Twentity	Population	HOUSE	Toms	
Full Timerfull Service Brook Off Rusyon	usy clin	ě	1											
(290) Athens-Hocking Recycling Centers Drop-Off 9009 Sand Ridge Road Millseld, OH 45761	4 00 00	×	×	×	×	*	×	×	Athens	Dover Twp.	9,819	M.F. 7.30AM. 3.30PM; Sat. 8AM-12PM	MA	100% R
(8919) Green Twp. Drop-Off Twp. Mantenance Bldg. 20995: County Rd. 33B. Logan, OH 43138	PA. 00	×	×	×	×	×	×	×	Hocking	Green Tvip.	3,261	Daylight Hours	NIA	100% R
(\$516-A) Nelsonville City Drop-Off #1 (serviced by Southern OH Disposal) Advanced Auto 1160 E. Canal St. Nelsonville, OH 45764	98	×	×	×	×	×	×	×	Athens S	Nelsonville	5,197	Dayight Hours	N/A	100% R
(5516-8) Neison ville City Drop-Off #2 (serviced by Southern OH Disposel) City Hall 211 Lake Hope Dr. Netsonville, OH 45764	PA	×	×	×	×	×	×	×	Athens	Melsonville	5,197	Daylight Hours	NIA	100% R
[9090] Hocking Valley Community Hospital 601 State Route 664 N Logan, OH 43138	40	×	×	×	×	×	-		Hocking	Logan	7.117	Dayight Hours	NIA	100% R
[291] Athens-Hocking Solid Waste District Drop-O ff 33845 Sutton Road Logan OH, 43138	PA DO	×	×	×	×	×	×	×	Hocking	Logan	7111.7	M-F: 7:30AM- 3:30PM; Sat: 8AM-12PM	MA	100% R

Drop-offs, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District

				F.		E				Service Afre				The state of the s
E WESTERNAMENT OF	Pygow	J					one of the second secon	cando			Морышения	Higgson	Toma	of metering
		A	13	P	300	200	O Princip s	AC GLI PL DCC SC GAB INP ST WG ON OUR	Manage M	Two blocks	Served			Harm Section
Par Gradinii Leve Disp.Off	Recycling Contac	A DE	Ĕ	8										
[5500] Albany Wilage/Lee Twp Drop-Off Twp. Bldg. 5540 State St. Albany, OH 45710	PA, DO	×	×	×	×	×	×	×	Athens	Lee Two.	2,789	8AM-12PM. 3rd Sal.Month	MA.	100% R
(5498) Buchtel Village/York Twp. Drop-Off Village Hall Parking Lot 17710 N. Akron Ave. Buchtel, OH 45764	PA, DO	×	×	×	×	×	×	×	Athens	Yark Twp.	7,566	SAM-12PM fst Sst.Month	N/A,	100% R
[8526] Canaan Twp. Drop-Off Twp. Garage 15266 US Rt. 50 E. Alhens, OH 45701	P.A. 000	×	×	×	×	×	×	×	Athens	Canaan Twp.	1,685	Tues-Mon. 1x/Month Incl. 2nd Sat/Month	NIA	100% R
[5501] Cookille Village/Troy Tvp. Drop-O ff Tvp. Garage behind Gold art 25780 Brimstone Rd. Coolville, OH 45723	P.A.	×	×	×	×	×	×	×	Athens	Trey Twp.	2,806	Tues-Mon twMonthind. Last Sat/Month	NIA	100% R
(8363) Glouster Village/Trimble Twp. Drop-Off HAPCAP Bldg. 3 Cardaras Dr. Glouster OH 45732	P.A. 00	×	×	×	×	×	×	×	Athens	Trimble Twp.	4. 89 84.	Tues-Mon hallouth incl. 1st Sst/Month	N/A,	100% R
[5495] Guysville/Rome Twp. Drop- Off Marathon Station 19100 US-50 Guysville, OH 45735	PA, DO	×	×	×	×	×	×	×	Athens	Rome Twp.	1,326	SAM-12PM, Last Sat.Month	NIA	100% R
[5496] Kilvert Community Center Drop-Off 6 Main St. Amesville, DH 45711	PA, 00	×	×	×	×	×	×	×	Athens	Ames Tvp.	1,197	Tues-Mon tx/Month incl. 3rd Sat/Month	MA	100% R

Drop-offs, Hauler Collection, Other Recycling Activities and HHW Collection Used by the District

				è			Ī		Toronto al Marketinia Assessment				Service Area	8			A 44 A 15 T
FeelityAtelivity	Jype 1	8	AE GE	THE STATE OF	Sec	3	W	510	PLOCC SCLABNER ST WE ON OTH	WO	_	County	Airp-dist.	Population	Hour		from Scator
[5497] New Marsh feld Village/Waterloo Twp. Drop.O ff New Marsh feld Community Center 3993. Old SR 56 New Marsh feld, OH 45766	PA.	×	×	*	36.	×		×		×		Athens	Waterloo	0883	SAM-12PM, Last Sat.Month	N/A	100% R
[5 499] Shade Village/Lodi Twp. Drop-O ff Shade Community Center 2380 Darwin Road Shade, OH 45776	PA, 000	×	×	×	×	×		×		×		Athens	Lodi Tvp	1,434	SAM-12PM 2nd Set.Month	N/A	100% R
[5493] Trimble Village/Trimble Twp. Drap-Off Twp. Garage 100 W. Main St. Glousler, OH 45723	400	×	×	×	×	×		×		×		Alhens	Trim ble Twp	4,496	Tues-Mon 1x/Month incl. 2nd Sat/Month	NIA.	100% R
[5507] Benton Twp. Drop-Off Twp. Maintenance Bldg. 20995 SR 684 South Logan, OH 43138	PA 00	×	×	×	×	×		×		×		Hocking	Benton Two.	788	Tues-Mon 1x/Month incl 2nd 5at/Month	NIA	100% R
IN/A) Carbon HIIWN ard Township Drop-Off Ward Township Building 15044 Fifth St Nelsonville, OH 45764	PA. 000	×	×	×	×	×		×		×	-	Hacking	WardTwp	1,482	1wM onth for 1 Week	NUA.	100% R
[M/A] Gibisonville/Laurel Township Drop-Off Gibisonville Community Center 1 Market St Gibisonville, DH 43149	4 O	×	×	×	×	*		×		×		Hacking	Hacking Laurel Twp.	1,146	1xM onth for 1 Week	AIN	100% R

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

				À	į	5	P P	Ē	Types of Materials Accepted	1			Service Arr				Section 1
- OMITY/A CDV/I	- LAN	- 1	10.00			5		9	Of OCE OF LAB AISO OF ONE CAN PIN		2	County	TWINCH	Population Contact	House	Tom	Traini Sector
(8527) Good Hope Drop-Off Twp. Garage 26836 Main St. Rockbridge, OH 43139	PA, DO	×	×		×	×		×			×	Hocking	Rockbridge	1,376	Tues-Mon txMonth ind. Last Sat.Month	NVA	100% R
[5504] Laurelville Drop-Off 16055 M ain St. Laurelville, OH 43135	P.A.	×	×	×	×	×		×		5.9	×	Hocking	Laureiville	517	Tues-Mon 1x/Month ind. 1st Sat/Month	MA	100% R
[5505] Marion Twp. Drop-D ff Twp. Bidg. 30767 Logan Hornsmill Rd. Logan, OH 43138	PA	×	×	×	×	×		×		100	×	Hocking	Logan	7,117	Tues-Mon 1x/Month incl. Last Sat/Month	MA	100% R
[5502] Murray City Village/Ward Twp. Drop-Off 13953 Locust St. Murray City, OH 45732	PA, DO	×	×	×	×	×		×			×	Hocking	Murray City	1,482	Tues-Mon 1x/Month incl. 3rd Sat/Month	WA	100% R
(\$506) Starr Tvp. Drop-Off Tvp. Bldg. Main St. Union Furnsce, OH 43158	PA, DO	×	×	×	×	×		×		12	×	Hocking	Union Furnace	1,527	Tues-Mon 1x/Month ind. 3rd Sat./Month	MA	100% R
Halilm Becycling																	
PDG Santation	I	×		×	×	×	×	×				Athens	IN	65,886	MA	30	100% R
Waste Management	H				×							Athens	All	65,886	NA	DNR	100% C
Athens Hocking Recycling Centers	x	×	×	×	×	×		×				Athens & Hocking	IV.	94,377	HWA.	Incl. in AHRC MRF total	100% R/C
Southern Ohio Disposal	x	×	×	×	×	×		×		-		Athens	Nelsonville	5,197	MA	35	100% R
MARE																	
Rumpke Waste Recycling - Columbus	MRF	×	×	×	×	×		×				Athens	All	65,886	MA	703	100% C
Rumpke Daylon Glass Plant	MRF		×								×	< Athens	Ν	65,886	N/A	493	100% C
Athens Hocking Recycling Center (AHRC)	MRF	×	×	×	×	×		×		×	×	Athens & Hocking	₽	94,377	NIA	3,858	100% RJC

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

		ĺ			The second	ł	105	Service Area		Ī	Ī	
Facilin/Acn.	-d/A	AE GL P	000	CLABINA	PLOCE SC LAB MAP ST PYG OU OH	one of the	_	TwpiCity	Population	Total	Tom	nom Sector.
Strap Varia							ŀ					
Michel's Iron & Wetals 35899 Water St. Union Furnace, OH 43138	ঠ	×	×	×	×	Hocking		व	28,491	M,TUE,FRI:10 AM.4PM SAT: 8:30AM- 12PM	3,926	100% R
Ray-Kenston Metals 10288 Salem Rd. Alhens, OH 45701	à	*	×		×	Athens		No.	65,886	M.F. 94M- 2PM SAT 94M- 2PM	DNR	DNR
Cullison Scrap Metal 10841 Salem Rd Athens, OH 45701	š	*	×		*	Athens		ll4	66,886	DNR	DNR	DNR
Automotive Service Contact an	to Parts S	COIDS										
Baden's Care Auto 42841 Harris Rd. Nelsonville, OH 45764	4			×	×	× Athens		Nelsonville	Customers and Employees	Business	7	100% RJC
Huddle Tire & Auto 482 Richland Ave. Athens, OH 45701	-«			×		X Athens		Athens	Customers and Employees	Business Hours	0	100% R/C
Quicky Lube Plus 2 M Plains Rd, The Plains, OH 45780	d			×		X Athens		The Plains	Customers and Employees	Business Hours	60	100% RJC
Hocking Hits Collision Repair 302 E Front St. Logan, OH 43138	⋖					Hocking		Logan	Customers and Employees	Business Hours	-19	100% RJC
ANIs Auto Repair 186 Columbus Rd. Athens, OH 45701	4			×		×	_	Athens	Customers and Employees	Business Hours	ŧ,	100% R/C
Appalachian The 550 W Union St. Albens, OH 45701	Ą.					Athens		Athens	Customers and Employees	Business Hours	4	100% RJC
PA's Sure Shop 8942 United Ln Athens, OH 45701	ব					× Athens		Athens	Customers and Employees	Business	11	100% R/C

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

				Ě		l.		Type of Physical Account	losses.				Service Area	-			
Famility/Assixth	Type					1						_	Section State	Population	Hotel	Total	
		¥	ē	3	S	7.75	100	15 1	PU DEC SELLAB MAP 57 WG ONLOTH	i	III COUNTY	_	FWDIT-IE	Survest			TOTAL STORE
Notan's Car Shap 1332 Parkway Dr. Logan, OH 43138	ď						×			×	X Hocking	Di u	Logan	Customers and Employees	Business	φ	100% RJC
Valley View Auto Parts 16480 Pancake Rd. Nelsonville, OH 45764	4									×	X Athens		Nelsonville	Customers and Employees	Business	78	100% R/C
Chieffain Main Shell 215 W. Main St. Logan; OH 43138	4					- 72	×	×		×	X Hocking	6u	Logan	Customers and Employees	Business Hours	Ħ	100% R/C
Kevins Service Station 220 S. Mulberry St. Logan, OH 43138	4						×			4.5	X Hocking	5ug	Logan	Customers and Employees	Business	16	100% R/C
AutoTech Service Center 2079 E. State St. Athens, OH 45701	ď					7.5	×			100	X Athens	SE	Athens	Customers and Employees	Business Hours	ø	100% R/C
Dans's Tire Center 1486 Buckeye Rd. Nelsonville, OH 45764	4										Athens		Netsonville	Customers and Employees	Business	DNR	100% RJC
Patton's Truck & Heavy Equipment 35640 Hecking Dr. Legan, OH 43138	⋖									×	X Hocking	g in	Logan	Customers and Employees	Business	12	100% RJC
Cherry's Tire & Services 1945 E., Front St. Logan, OH 43138	ď									3-1	X Hecking	Gu	Logan	Customers and Employees	Business	2	100% R/C
Subtle Bug 7 W 1st St. The Plans, OH 45780	4									-5,0	X Athens		The Plains	Customers and Employees	Business	44.	100% R/C
Offer Commercial and Including a	melor	Loc ye	1	3													ľ
Commercial Stores Reporting Directly to Ohlo EPA	93	×	×	×	×	×	×	-48		×	X Athens & Hocking	s gui	¥	DNR	MA	1,946	100% C
Other Commercial Sector Recycling (from District Surveys)	93	×	×	×	×	×	×	164		×	X Athens & Hocking	S Si Sing	Ail	DNR	NA	742	0 %001

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

				i		16	1	E	1		E			Service Area	1			The same of
Facility/Activity	Type			3	The state of the s				6						Population	Hears	Tens	
		S	10 01		LOCC SC LAN MAN ST WG OM ON	86.	3	3	10	K	C	ē	Mullion	Napole III	Served			
Other Industrial Sector Recycling (from District Surveys)	9	×	×	×	×	×		×			×	×	Athens & Hocking	IId	DNR	MIA	4,448	100%
Special Collection Programm.																		
AHRC (COA, Recycle Days, Special Events)	SC	×	×	×	36	×		×		×	×	×	Athens & Hocking	IIA	94,377	Varies	4,309	100% R
Athens Twp. and City of Alliens HHW Coffection	SC											×	Athens	Athens	65,886	Varies	o	100% R
Misc. District Collections	S			×		×	×				×	×	Athens & Hocking	ΙĞ	94,377	Varies	5	100% R
Ohio University Recycling Sent Directly to Recyclers other than AHRC	ů,	×	×	×	×	×	×	×	×	×	×	×	Athens	Ohio University Cempus	000'61	Alli	4,605	100% RVC
Registered Scrap Tire Recyclers	æ								×				Athens & Rocking	ild	94,377	N/A	1,077	100% R/C.
Komi				1													744,41	

A = automotive service centerback store, CG = commercial generator, DO = drop-off, H = hauler, IG = industrial generator, IARF = material recovery facility, PA = read-acid battery, MXP = mixed paper, ST = scrap trees, WG = white goods/spptiances; ON = other/misc.; DM = did not mport, N/A = not applicable MATERIALS: AC = aluminum containers/hon-ferrous, GL = glass containers, PL = plastic containers OCC = corrugated cardboard, SC = steel containers/ferrous, LAB publicly available, PUO = private use only, SC = special collection, SY = strap yand, TR = fire recycler; SECTOR: R = residential, C = commercial, I = industrial

Source(s) of information: 2015 Ohio EPA Material Recovery Facility Report, 2015 Ohio EPA Scrap Tire Recycling Report, 2015 District Survey Data, 2015 Ohio Development Services Agency Research Office, 2015 Population Estimates by County, City, Village and Township, May 2016.

Note: The inventory in Table III-5 is included for reference. Tonnage has not been adjusted for double counting.

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

Facility Name or Activity	Class	County	Facility Address	Waste F	localve SWMD
The state of the s		- Addition	Total Manager	FW	YW
In-District Registered Composi	Facilities				
Ohio University Class II Site	11	Athens	137 Dairy Lane Athens, OH	509	254
Athens-Hocking Recycling Centers, Inc Organics	11	Athens	5991 Industrial Dr. Athens, OH	136	97
Latta Earthworks	Of	Athens	6787 Baker Rd. Athens, OH	0	553
Ohio University Compost Facility	IV	Athens	N. Blackburn Rd. Athens, OH	0	99
Subtotal				644	1,003
<b>Out-of-District Registered Com</b>	post Facil	Ilies			
Southeastern Correctional Institute	11	Fairfield	5900 B.I.S. Rd. Lancaster, OH	9	14
Subtotal				9	14
Other Activities					
Hauler/Kroger/Walmart	N/A	Athens	N/A	340	0
	INA	Hocking	N/A	172	0
City of Athens Leaf Collection (Field Spread)	N/A	Athens	N/A	0	296
City of Logan Leaf Collection (Field Spread)	N/A	Hocking	N/A	0	60
City of Nelsonville Leaf Collection (Field Spread)	N/A	Athens	N/A	0	58
Subtotal				512	414
Srand Total				1,105	1 455

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

Source(s) of information: Ohio Environmental Protection Agency, 2015 Compost Facility Report; District Survey Data

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

Daye		
Number of Facility Oper	306	365
Daily Waste Receipt	86	N/A
Fecility Operator	Doug Hall (304) 428-0602	Tom Wehrenberg 317-634-7367
Facility Owner	Northwestern Landfill, Inc. (Waste Management) (304) 865-3938	Covanta Indianapolis Inc. 317-634-7367
Facility Mailing Address	510 E. Dry Run Rd. Parkersburg, WV 26104	2320 S. Harding St. Indianapolis, IN 46221
Ps allity Mem	Northwestern Landfill	Indianapolis Resource Recovery Facility

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

Silve Location (description)	Land Dwner Malling Address/Phone	Description of Materials Dumped	Size of Site (Acres)	Time Period Site has	2015 Update
Green Dump STAILS					
Campbells Cove Camping 30775 Lake Logan Rd. Logan, OH 43138	Campbell Cove Camping, Inc. 30775 Lake Logan Rd. Logan, OH 43138	Construction and Demolition Debris	1.8	Violation identified 1/9/15. Achieved compliance by 5/26/15.	Site was in compliance by May 2015.
Fisher Property Griffith Rd. Logan, OH 43138	Johnny E. and Donna J. Fisher 1460 Evaline Dr. Columbus, OH 43224	Construction and Demolition Debris	5,3	Violation identified 8/7/13. Achieved compliance by 8/7/15.	Site was in compliance by August 2015.
Heine Road Open Dump 15539 Heine Rd. Logan, OH 43138	Richard P. Blount 15539 Heine Rd. Logan, OH 43138	Municipal Solid Waste	5.0	Violation identified 5/4/15. Achieved compliance by 10/14/15.	Site was in compliance by November 2015.
Massie Open Dump Corner of SR 180/Fast Rd. Laurelville, OH 43135	Rae Ann Massie P.O. Box 575 Laurelville, OH 43135	Municipal Solid Waste	1.8	Violation identified 12/8/14. Achieved compliance by 6/24/15.	Site was in compliance by June 2015.
Weste Tire Dump Silva					
Williams SR 93 Tire Dump 9860 SR 93 N New Straitsville, OH 43766	Homer Williams and Karen Sharpe 9860 SR 93 N New Straitsville, OH 43766	Scrap Tres	1.69	Violation identified 1/23/15.	N/A

Source(s) of information: Ohio EPA Open Dumping Database and Hocking County Real Estate Search Website (http://www.realestate.co.hocking.oh.us/re/re-search.php).

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

Site Location	Land Owner Mailing	Description of	Size of	Time Period Site
(describe briefly)	Address/Phone	Materials Dumped	Site (Acron)	hes Extend
None.				

Source(s) of information: District records

Table III-10
Solid Waste Haulers Operating in the District

Hauler	Mailing Address	Service Area	Materials Collected
Private Sector Haul	178		
A-1 Sanitation	P.O. Box 40 Tupper Plains, OH 45783 (740) 667-3989	Athens County	Waste
Bateman's Refuse Hauling Service	9757 McDougal Rd. Millfield, OH 45761 740-797-2680	Athens and Hocking Counties	Waste
BSS Waste	3473 Ruble Park Ave. Lancaster, OH 43130 740-756-9100	Athens and Hocking Counties	Waste
Farmer's Refuse & Trucking	1952 Linton Rd. Logan, OH 43138 740-385-7228	Athens and Hocking Counties	Waste and recycling
Leckrone Sanitation	7616 Twp. Rd. 257 Shawnee, OH 43782 (740) 394-2032	Hocking County	Waste
Old Mill Sanitation	7164 Pleasantview Rd. Bremen, OH 43107 (740) 569-1323	Hocking County	Waste
PDQ Sanitation	P.O. Box 130 The Plains, OH 45780 740-594-2216	Athens County	Waste
Rumpke	28 A W Long Rd. Wellston, OH 45692 800-828-8171	Athens and Hocking Counties	Waste and recycling
Smith Hauling	P.O. Box 10 Albany, OH 45710 (740) 698-7022	Athens County	Waste
Southern Ohio Disposal	547 Motherwell Ave. Logan, OH 43138	Nelsonville and Logan	Residential waste and recycling
Traces A-1 Sanitation Inc.	28424 Chieftain Dr. Logan, OH 43138 740-385-6951	Athens and Hocking Counties	Waste
Vickroy's Disposal	P.O. Box 70 Logan, OH 43138	Hocking County	Waste
Waste Management	512 East Dry Run Rd. Parkersburg, WV 26104 866-551-7463	Athens and Hocking Counties	Waste
Non-Profit Haulers			
Athens Hocking Recycling Centers	9009 Sand Ridge Road Millfield, OH 45761	Athens and Hocking Counties	Recycling and waste

Source(s) of information: District Records

# 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," presents an estimate of the District's population and projected residential/commercial waste generation for 2015. The District's population estimate of 94,377 was calculated using the Ohio Development Services Agency (ODSA) Office of Research publication, 2015 Population Estimates by County, City, Village & Township, May 2016.

# **Population Adjustments**

In accordance with Ohio law, the entire population of political subdivisions located in more than one solid waste district must be credited to the district containing the largest portion of the jurisdiction's population. No political subdivisions in the District were located in more than one solid waste management district. Therefore, no population adjustments were necessary.

#### Waste Generation

The total tons of waste generated by the residential/commercial sector in 2015 was estimated using the District's average per capita generation rate from 2010 to 2014, which is summarized in the following table:

Year	Waste + Recycling	Per Capita Generation Rate (lbs/person/day)
2010	69,822	4.06
2011	72,896	4.24
2012	67,906	3.98
2013	65,716	3.83
2014	69,142	4.02
	Average	4.03

Residential/commercial generation rates from 2010 to 2014 were based on tonnage reported on Ohio EPA's District Review Forms. The residential/commercial sector was projected to generate 69,354 tons of waste and recyclables in 2015 based on historic waste generation patterns. This estimate was calculated by multiplying the average per capita

generation rate (4.03) by the 2015 District population (94,377) by 365 days, then dividing by 2,000 to convert the generation from pounds to tons. Using this methodology, the residential/commercial sector was projected to generate 69,354 tons in 2015. This estimate was 5,077 tons lower than the actual residential/commercial waste generation of 74,431 tons recorded by landfills and transfer stations (60,014 tons) plus reported recycling (12,566 tons) and organics composting (1,851 tons). For further discussion on reconciling the waste generation values see Section IV.H of this *Plan Update*.

#### B. Industrial Waste Generation

The District conducted a solid waste and recycling survey of its local industries to gather data on reference year (2015) recycling and waste generation. Survey responses from industries that provided 2014 data that did not provide 2015 were used to supplement reference year industrial waste generation statistics. Based on the responses received, a total of 798 tons of recycling were reported by industries. Industries did not report waste disposal. Some respondents reported recycling materials that were classified as special or universal waste, which were not creditable toward diversion. These materials were excluded from calculations. A summary of industrial survey results is included in Appendix F.

Table IV-2 presents a summary of the industrial sector's 2015 total generation based on survey responses, as well as the estimated total for the District's entire industrial sector broken down by Standard Industrial Classification (SIC) code. A total of 111 industries in SIC codes 20 and 22-39 were identified throughout the District. Approximately 10% of the industries (10) representing 38% of the District's industrial sector workforce responded to the survey.

The three types of industries that reported the highest per capita solid waste generation rates (SIC codes 34-36) were also the top three types of industries with the highest overall tons reported.

To estimate total industrial waste generated, a list was compiled that contained all industrial sector businesses located in the District and the total number of employees by SIC code. The District determined the quantity of industries and employees that were not represented in the survey responses. Average per capita generation rates by SIC code from Appendix JJ of the Ohio EPA Plan format were used to project the total tons generated by industries that did not respond to the District's survey. Using this methodology, non-responding industries generated a projected 13,604 tons of waste and recycling. The resulting overall total is 14,402 tons generated by both responding and non-responding industries.

# C. Exempt Waste

Exempt waste is material that is not defined as solid waste, such as earth or materials from construction, mining, or demolition operations, nontoxic fly ash, nontoxic bottom ash, or slag. Exempt wastes can be managed in landfills that have different and often less stringent environmental control requirements. Table IV-3 shows that 1,364 tons of exempt waste was generated from within the District. 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 0.08 pounds per person per day (PPD).

Exempt waste does not have a direct correlation to population or market/economic factors, so the total tons typically fluctuates annually. Over the five-year span from 2011 to 2015, the period high (1,364 tons) occurred during the reference year; the period low occurred the previous year in 2014 (422 tons).

#### D. Total Waste Generation

Table IV-4, "Reference Year Total Waste Generation for the District," presents the projected total waste generated based on historic District trends, survey responses, and industrial generation estimates. Using this calculation method, an estimated 85,120 tons of waste was generated. The per capita daily total generation rate is 4.94 pounds per person per day (PPD). This includes 69,354 tons of residential/commercial sector waste (Table IV-1), 14,402 tons of industrial sector waste generation (Table IV-2) and the actual tons of exempt waste (1,364 tons) reported by landfills and transfer stations (Table IV-3). The total waste generation listed in Table IV-4 was 5,579 tons more than the total generation presented in Table IV-8, which was calculated by using actual data reported by landfills, waste-to-energy facilities, transfer stations, and recycling facilities. For further discussion on reconciling the waste generation values see Section IV.H.

#### E. Reference Year Waste Reduction

The District surveyed businesses, automotive parts/service centers, recycling facilities, haulers, and scrap yards to obtain data on residential, commercial, institutional and industrial recycling for 2015. Data provided by Ohio EPA on compost facilities, scrap tire transporters, and material recovery facilities was included in the analysis of reference year recycling. Residential/commercial waste reduction reported in Table IV-5 and industrial waste reduction reported in Table IV-6 was obtained from survey data and data compiled by Ohio EPA.

Recycling tonnage in Section IV differs from values reported in the 2015 Annual District Report because revisions have since been made. The values used in the Plan should be considered the most recent and accurate calculations of the District's 2015 recycling. The District was careful to eliminate double counting as described in the sections below.

#### Residential Data

The District annually records quantities of recycling from residential collection programs such as collection events for electronics, HHW, and drop-offs. The District also surveyed brokers, haulers, and MRFs. Tonnage managed by the same MRF or broker was removed to avoid double counting.

#### Commercial/Institutional Data

A survey of commercial businesses and institutions is completed annually. Brokers, haulers, and MRFs (material recovery facilities) are also surveyed. These surveys request only tonnage that was generated within the District.

Data from businesses was not blended with data from brokers, haulers, or MRFs when calculating the total tons for the majority of materials. The District typically used the greatest total tons reported by either businesses, brokers, haulers, or MRFs but not a combination of totals to avoid double counting.

Data blending was only used in rare instances when the District was confident that double counting would not occur.

#### Industrial Data

The District annually sends surveys to industries requesting recycling tonnage. Data from haulers, brokers, or MRFs was used infrequently and only if the District could ensure that tonnage was not double counted.

#### Residential/Commercial Waste Reduction

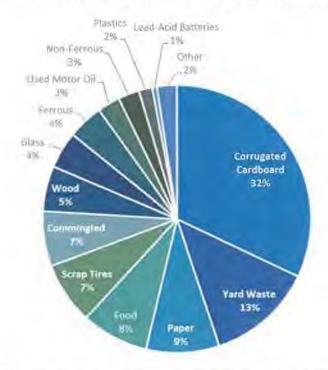
Table IV-5, "Reference Year Residential/Commercial Waste Reduction in the District," shows that the District's residential and commercial sectors diverted 14,717 tons of materials from landfills in 2015 by recycling and composting. A negligible quantity (0.07 tons) was reduced using incineration.

Cardboard (4,626 tons) was the most diverted material based on weight. Other significant components of the residential/commercial sector's waste reduction included yard waste (1,851 tons), paper (1,276 tons), food

(1,165 tons), scrap tires (1,077 tons) and commingled recycling (960 tons). The following table summarizes the residential and commercial recycling totals by commodity:

Commodity	2015 Tons
Corrugated Cardboard	4,626
Yard Waste	1,851
Paper	1,276
Food	1,165
Scrap Tires	1,077
Commingled	960
Wood	789
Glass	640
Ferrous	615
Used Motor Oil	393
Non-Ferrous	366
Miscellaneous	266
Plastics	234
Lead-Acid Batteries	84
Household Hazardous Waste	40
Electronics	25
Dry Cell Batteries	5
Appliances	4
Textiles	3
Waste Reduction via Incineration	0.07
Total	14,417

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



#### 2015 Residential/Commercial Waste Reduction

**Note:** In the figure above, "Other" includes miscellaneous, household hazardous waste, electronics, dry cell batteries, appliances, textiles, and waste reduction via incineration.

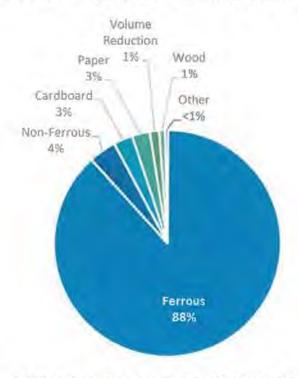
#### **Industrial Waste Reduction**

Table IV-6, "Reference Year Industrial Waste Reduction in the District" shows that industries located in the District recycled 809 tons of materials in 2015. Ferrous metals (714 tons) accounted for the majority (88%) of the industrial sector's recycling. Other components of the industrial sector's waste reduction included non-ferrous metals (4% tons), corrugated cardboard (3%), and paper (3%). The following table summarizes the industrial recycling totals by commodity:

Commodity	2015 Tons
Ferrous Metals	714
Non-Ferrous Metals	32
Corrugated Cardboard	22
Paper	20
Volume Reduction via Incineration	11
Wood	7
Plastics	2
Food	1
Glass	1
Total	809

The following figure presents the commodities recycled by the industrial sector in 2015.

# 2015 Industrial Waste Reduction in the District



# F. Existing Waste Reduction/Recycling Activities for the Residential, Commercial and Industrial Sectors

The District underwent a significant operational change that occurred during a multi-year period beginning in 2013 which continued through 2016. The following description is provided to help the reader understand the District's restructuring process so that subsequent mentions of the separation have more context.

# Restructure of Athens-Hocking Solid Waste District and Athens Hocking Recycling Centers

The District and the Athens Hocking Recycling Centers (AHRC), a non-profit organization, previously operated essentially as one entity. Hocking County representatives on the District's policy committee did not wish to continue being in the trash business and voted to change the makeup of the AHRC to remove elected officials from the board, many of which were also on the District's board. A decision was made by the County Commissioners to split the District and AHRC into clearly defined separate entities.

The District divested itself of ownership of AHRC in April of 2013. Former employees of the District assigned to the AHRC were transferred to Athens

County and AHRC, meaning the District transferred its entire workforce except for the District Coordinator as of March 8, 2014.

All equipment and vehicles of the District were appraised. AHRC had the right to purchase vehicles and equipment at the wholesale appraisal value of \$337,750; any assets not purchased by AHRC were to be sold by the District. The District agreed to let AHRC relocate its IPS-horizontal baler for the lease amount of \$1.00 annually and give AHRC the first right of refusal to purchase the baler.

In order to transfer the District's assets to AHRC, the District traded its assets for the AHRC's services in a written agreement signed by both boards. This agreement stipulated that the District would agree to let AHRC continue to service the public drop-off recycling sites, public school recycling weekly collection, Spring/Fall Recycling Days, and credit the services rendered (valued at \$166,674 annually) to the District in lieu of payments toward the acquisition of vehicles and equipment. As part of this agreement, AHRC was required to provide collection, processing, and hauling services deemed necessary for the District to comply with the Plan and construct a sign stream MRF.

The District is required to pay AHRC \$120,000 annually toward recycling services from 2015 to 2019.

# RESIDENTIAL/COMMERCIAL RECYCLING AND COLLECTION PROGRAMS

The following section describes programs and activities that operated or occurred during the reference year. The strengths and challenges of District programs are presented following each program description.

# Curbside Recycling

In 2015, there were 19 communities that had curbside recycling programs. One of the programs was non-subscription-based and the remaining programs were subscription-based. All curbside programs were operated by Athens-Hocking Recycling Centers, Inc. (AHRC), with the exception of one program, which was operated by Southern Ohio Disposal. After 2016, Southern Ohio Disposal was no longer a service provider and their accounts were taken over by Rumpke.

All curbside recycling program accepted the following materials:



The City of Athens, which was the only community to have non-subscription based curbside recycling during 2015, provided information on its website about the recycling program. Curbside Recycling "Frequently Asked Questions" flyers were mailed to residents in utility bills when the curbside program transitioned to single stream collection. The flyers were also available in the City Building.

Both curbside recycling haulers delivered materials collected to one of AHRC's facilities, so materials accepted and methods for preparing recyclables were the same for all communities throughout the District. Source separated collection of curbside materials continued for many residents until June of 2015. For the first half of 2015, residents were instructed to bag or bundle each material separately. Around July of 2015, the City of Athens, Ohio University, and customers of Southern Ohio Disposal transitioned to single stream collection. In July, curbside recycling transitioned to single stream collection. The rest of the District transitioned to single stream collection between the very end of 2015 and the beginning of 2016. The transition from collecting source separated materials to single stream materials occurred as a result of the completion of AHRC's material recovery facility (MRF), which has the ability to sort mixed recyclables, and new collection trucks, which were designed to collected single stream materials as compared to the old fleet which was designed to collect source separated materials.

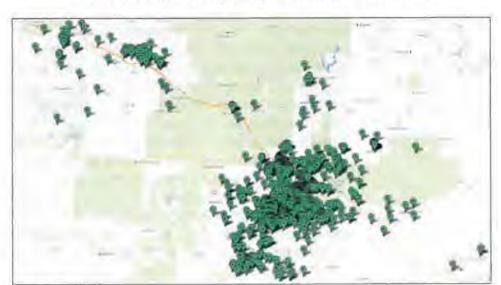
To educate residents about the transition from source-separated collected to single stream collection, information was disseminated via email (to residents with electronic billing for curbside services), Facebook, web sites, and billboards. During the transition, residents were confused because it occurred in phases (not all customers switched at the same time).

In 2016, single family homes, duplexes, and condos in the City of Athens continued to use 18-gallon open top recycling bins, which were provided for no cost. Commercial establishments with curbside recycling in the City of Athens were provided with 65-gallon rolling carts. Residents in the City of Nelsonville who participated in subscription-based curbside recycling were provided with 18-gallon open top recycling bins by Southern Ohio Disposal.

As of 2017, subscription-based curbside recycling customers that used AHRC as their service provider could choose to provide their own recycling container (of any size) for no additional cost, or residents could rent a 65-gallon wheeled recycling container with a lid for \$2.00 per month.

Table III-4, "Residential Curbside Recycling Activities Used by the District" presents information each curbside recycling program that operated during 2015.

The following map presents the locations of confirmed curbside recycling customers in the District:



2015 Confirmed Recycling Customers in District

Source: AHRC

The following map presents the areas where residents had access to and participated in curbside recycling activities based on the locations of confirmed curbside recycling customers:

# District Curbside Recycling Programs



Other than the City of Nelsonville, which as of 2018 was serviced by Rumpke, AHRC was the only service provider that offered curbside recycling service in the two counties. There are multiple trash collection providers. While single family homes in the cities of Athens and Nelsonville have access to non-subscription curbside recycling, the only homeowners outside these areas that receive curbside recycling services are those that subscribe to AHRC's trash collection service. AHRC does not provide subscription curbside recycling to homeowners that choose a different refuse hauler.

As of 2018, AHRC is restricting its service area because it found that providing curbside recycling services in some rural areas that once had curbside recycling was financially unsustainable; examples of areas that previously has access to recycling that have had their service revoked include Rockbridge and Burr Oak (Burr Oak began receiving service after the reference year and is therefore not included in Table III-4, and since service availability will be terminated by 2018, Burr Oak is not listed in Table VII-2 either). Other communities may be impacted but the District does not work with AHRC or have access to their records, so the information is not available.

#### **Curbside Economic Incentives**

Ohio's State Solid Waste Management Plan requires that Districts have in place or evaluate the feasibility of providing financial incentives to increase participation in the recycling programs which are used to demonstrate access to recycling.

The City of Athens had a Pay-As-You-Throw (PAYT) waste collection program available to homeowners that operated in conjunction with the non-subscription curbside recycling program. The following is an example of the City of Athens' volume based rates:



As of 2018, District residents in areas outside the City of Athens had the following PAYT waste disposal and recycling options:

- \$20.13/month: Unlimited weekly mixed recycling + 35 gallons of waste disposal capacity per week
- \$25.01: Unlimited weekly mixed recycling + 70 gallons of waste disposal capacity per week

The following table summarizes the program details.

Curbside Recycling Program Summary		
Description	Details	
Ohio EPA Program ID	274, 277, 279, 283, 287, 8540, 8917	
Entity Maintaining Program	AHRC, Southern Ohio Disposal	
Service Area	District	
Materials Recycled	Aluminum and steel cans, plastic bottles, glass, mixed paper, cardboard	
2015 Recycled Tonnage	N/A	

Curbside Recycling Program Summary		
Description	Details	
Annual Program Costs	\$0	
Program Operator/Contractor	AHRC, Southern Ohio Disposal	

# Strengths of the program include:

- Provides a convenient way for residents to recycle.
- Accepts a wide variety of materials.
- Current curbside recycling program operators each use the local MRF, so all materials accepted at curbside recycling programs throughout the District are consistent.
- Weekly service enables residents to accumulate fewer materials between service intervals.
- Many residents transitioned to single stream during 2015, which is more convenient, less time consuming, and requires less space in residents' homes than source-separated recycling (which required multiple bags/containers).

# Challenges of the program include:

- Tonnage for the curbside recycling program was not available for the overall program or by community. The inability to track tonnage makes measuring the effectiveness of programmatic changes or education and outreach efforts difficult.
- One of the District's largest cities, the City of Athens, has a somewhat transient population due to the presence of Ohio University, making ongoing education necessary.
- Much of the District is rural, which causes collection costs to be higher than in urban areas.
- The majority of communities have subscription-based curbside recycling. Non-subscription curbside recycling programs are generally more successful and have higher participation rates than subscription-based models.
- The City of Athens' PAYT disposal model only provides financial incentives for homeowners and some commercial accounts. The PAYT program is not managed or influenced by the District.

# 2. Drop-Off Recycling

The District operated a drop-off recycling program during 2015. The District currently contracts with AHRC to provide the following services:

- Recycling containers
- Collection of recyclable materials
- Processing and recycling of recyclable materials

Both haulers servicing drop-offs during 2015 delivered materials collected to one of AHRC's facilities, so materials accepted were the same each drop-off throughout the District. Manned/staffed collection sites (such as sites open from 8AM-12PM one day per month) required recyclables to be sorted. Weekly roll-offs also required that recyclables be sorted. Source separated collection of recyclables continued through June of 2015 for all other sites. In July, some drop-off centers transitioned to single stream collection. The following figure is an example of the District's single stream drop-off recycling sites:





The following photo presents an example of a weekly roll-off drop-off:

# District Weekly Drop-Off Recycling Site



The following materials were accepted at each site:



In 2015, there were six full-time publicly available recycling drop-offs located throughout the District. Full-time means the drop-off was open for at least 40 hours per week. Four of the District's full-time drop-offs were open during daylight hours. Two full-time drop-offs were open Monday through Friday from 7:30AM to 3:30PM and on Saturdays from 8AM to noon.

There were 18 part-time publicly available recycling drop-offs. Part-time drop-off schedules varied by community. At a minimum, drop-offs were available from 8AM-12PM one Saturday each month.

At most, they were available during daylight hours for one week each month.

Locations of drop-offs were available on the District's website, <a href="http://ahswd.org/wp-content/uploads/2016/08/AHSWD-public-drop-off-locations.pdf">http://ahswd.org/wp-content/uploads/2016/08/AHSWD-public-drop-off-locations.pdf</a>. Table III-5 includes an inventory of the District's drop-offs and when each drop-off was available during the reference year.

# **Athens County**

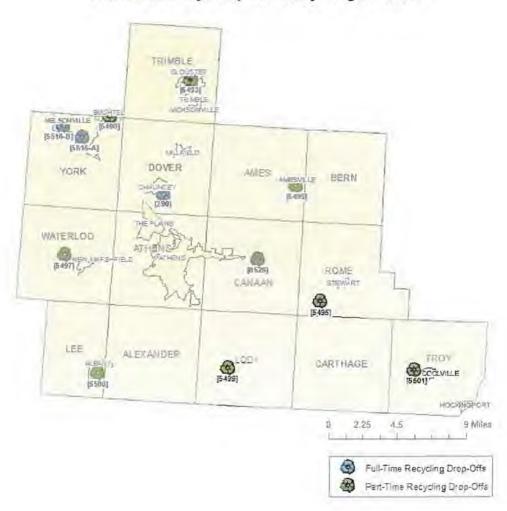
For the majority of 2015, Athens County had a total of three full-time drop-offs and ten part-time drop-offs. The drop-off centers included:

OEPA.	Description	Type
290	AHRC Drop-Off 9009 Sand Ridge Rd., Millfield, OH 45761	Full-Time
5516-A	Nelsonville City Drop-Off #1 (serviced by Southern OH Disposal) Advanced Auto 1160 E. Canal St., Nelsonville, OH 45764	Full-Time
5516-B	Nelsonville City Drop-Off #2 (serviced by Southern Disposal) City Hall 211 Lake Hope Dr., Nelsonville, OH 45764	Full-Time
5500	Albany Village/Lee Twp. Drop-Off Lee Township Building 5540 State St., Albany, OH 45710	Part- Time
5498	Buchtel Village/York Twp. Drop-Off Village Hall Parking Lot 17710 N. Akron Ave., Buchtel, OH 45764	Part- Time
8526	Canaan Twp. Drop-Off Township Garage 15266 US Rt. 50 E., Athens, OH 45701	Part- Time
5501	Coolville Village/Troy Twp. Drop-Off Township Garage behind GoMart 25780 Brimstone Rd, Coolville, OH 45723	Part- Time
8363	Glouster/Trimble Twp. Drop-Off HAPCAP Building 3 Cardaras Dr., Glouster OH 45732	Part- Time
5495	Guysville/Rome Twp. Drop-Off Marathon Station 19100 US-50, Guysville, OH 45735	Part- Time
5496	Kilvert Community Center Drop-Off 6 Main St., Amesville, OH 45711	Part- Time
5497	New Marshfield Village/Waterloo Twp. Drop-Off New Marshfield Community Center 3993 Old SR 56, New Marshfield, OH 45766	Part- Time

OEPA ID	Description	Туре
5499	Shade Village/Lodi Twp. Drop-Off Shade Community Center 2380 Darwin Rd., Shade, OH 45776	Part- Time
5493	Trimble Village/Trimble Twp. Drop-Off Township Garage 100 W. Main St., Glouster, OH 45723	Part- Time

At the end of 2015 and beginning of 2016, all drop-off sites transitioned to being single stream, full-time sites. The following figure presents the locations of drop-off recycling centers in Athens County:

#### **Athens County Drop-Off Recycling Centers**



#### **Hocking County**

For most of 2015, Hocking County had a total of three full-time dropoffs and eight part-time drop-offs. The drop-off centers included:

DEPA	Description	Туре
8919	Green Twp. Drop-Off Township Maintenance Bldg. 20995 County Rd. 33B, Logan, OH 43138	Full-Time
9090	Hocking Valley Community Hospital 601 State Route 664 N, Logan, OH 43138	Full-Time
291	AHSWD Drop-Off 33845 Sutton Rd., Logan, OH, 43138	Full-Time
5507	Benton Twp. Drop-Off Township Maintenance Building 20995 SR 664 South, Logan, OH 43138	Part- Time
N/A	Carbon Hill/Ward Township Drop-Off Ward Township Building 15044 Fifth St., Carbon Hill, OH 43111	Part- Time
N/A	Gibisonville/Laurel Township Drop-Off Gibisonville Community Center 1 Main St., Gibisonville, OH 43149	Part- Time
8527	Good Hope Drop-Off Township Garage 26836 Main St., Rockbridge, OH 43139	
5504	Laurelville Village Drop-Off 16055 Main St., Laurelville, OH 43135	
5505	Marion Twp. Drop-Off Township Building 30767 Logan Hornsmill Rd., Logan, OH 43138	Part- Time
5502	Murray City Village/Ward Twp. Drop-Off 13953 Locust St., Murray City, OH 45732	Part- Time
5506	Starr Twp. Drop-Off Township Building Main St., Union Furnace, OH 43158	Part- Time

At the end of 2015 and beginning of 2016, all drop-off sites transitioned to being single stream, full-time sites. The following figure presents the location of all drop-off centers in Hocking County:

#### 73COER GOOD HOPE DAY FALLS STEE IL VEREST WARD LAUREL 9 HANDEWILLE WASHINGTON STARR SALT CREEK BEHTON 2 Miles Full-Time Recycling Drop-Offs Part-Time Recycling Drop-Offs

#### **Hocking County Drop-Off Recycling Centers**

The drop-offs listed in this Plan should be considered the most accurate listing of drop-offs for the reference year. Adjustments were made to the list in the 2015 ADR. Additionally, drop-off locations have changed since the reference year, so the list will not match drop-offs currently advertised on the web site.

Twenty cubic yard collection containers are stationed at drop-off recycling sites to collect single stream recyclables. Containers are typically serviced once per week. The Sutton Road (Ohio EPA ID #291) was serviced three times per week. The following table summarizes the program details.

Drop-Off Recyclin	ng Program Summary
Description	Dotalls
Ohio EPA Program ID	290, 291, 5493, 5495-5499, 5500-5502, 5504-5507, 5516, 8363, 8526, 8527, 8919, 9090
Entity Maintaining Program	District, AHRC, Southern Ohio Disposal
Service Area	District
Materials Recycled	Aluminum and steel cans, plastic bottles, glass, mixed paper, cardboard

Drop-Off Recycling	g Program Summary
Description	Details
2015 Recycled Tonnage	N/A
Annual Program Costs	\$X
Program Operator/Contractor	District, AHRC, Southern Ohio Disposal

- Provides recycling opportunities for residents who do not have curbside recycling.
- Full-time drop-offs provide residents the availability to empty recyclables more frequently and on a more flexible schedule than a curbside program would provide.
- Single-stream recycling became available at some sites beginning mid-year during 2015, and for the remainder of sites in 2016. Single stream recycling is more convenient and less time consuming.
- All part-time drop-offs transitioned to full-time drop-offs over a period spanning from the last half of 2015 to the beginning of 2016.

#### Challenges of the program include:

- Providing access in rural areas is costly and yields low tonnage with higher volumes of contaminants and/or non-marketable recyclable materials.
- Tonnage for the curbside recycling program was not available for the overall program or by community. The inability to track tonnage makes measuring the effectiveness of programmatic changes or education and outreach efforts difficult.
- The District has received complaints about drop-off sites overflowing. The District has not been able to resolve this issue with the program operator. Overflowing containers cause drop-off sites to be seen as a nuisance by the hosts of the sites.

#### 3. Yard Waste Management

#### Registered Facilities

There are four classes of compost facilities in the State of Ohio, which are as follows:

#### Class I

Permitted to accept mixed solid waste for composting.

#### Class II

 Permitted to accept source-separated yard waste, agricultural waste, animal waste, and food scraps for composting.

#### Class III

 Permitted to accept source-separated yard waste, agricultural waste, and animal waste for composting.

#### Class IV

·Permitted to accept source separated yard waste for composting.

In 2015, there were four registered compost sites in the District, including two Class II facilities, one Class III facility, and one Class IV facility. A total of 1,003 tons of yard waste was managed at these facilities in 2015. One out-of-district facility was also used to manage a small quantity (23 tons) of District-generated organics.

#### **Food Waste**

The two registered Class II facilities located in the District that process food waste are operated by Ohio University and AHRC Organics.

#### Ohio University's Class II Facility

Ohio University (OU) has the largest in-vessel composting system at any college or university in the nation. The system includes a 2-ton in-vessel composting system and a 4-ton expandable in-vessel system, which allows OU to compost 100% of its pre- and post-consumer dining waste. The site has several unique components. The in-vessel systems are housed in a pole barn on a cement pad.

Solar arrays power the site and a solar thermal water heating system helps workers clean collection bins with harvested rainwater. A waste oil burner heats the pole barn during the winter. A windrow turned is located on site to further breakdown food waste after it is initially treated in the in-vessel composters.

Food is collected from the university's central foods processing facility and all Athens campus dining halls six days per week. Both pre- and post- consumer waste is collected. Food waste is combined with bulking agents (wood chips from landscape waste are commonly used) to be processed.

The university's food processing process is streamlined; therefore, a significant portion of the food waste collected comes from post-consumer waste. OU's Office of Sustainability is working to rectify this issue through behavior change programming.

#### AHRC Organics Class II Facility

AHRC operates a forced aeration composting operation under a covered facility. Food waste is mixed with wood chips and non-woody (leaves, grass clippings) organics matter. Materials are placed in a bin with a blower system to begin the composting process. The materials stay in the first bin for about a month. Materials are turned and spend about a month in a second bin with a blower system before they are ready to be screened and sold as soil amendment or combined with other materials to create different soil mixtures for various purposes.

AHRC currently provides food waste collection services to the City of Athens, Chauncey, The Plains, Nelsonville, and surrounding areas. Residents and businesses can sign up for compost material collection. Service options for individual households or businesses are as follows:

- Weekly pickup, \$22.50 per month
- Bi-weekly pickup, \$12.50 per month
- Exchange at the Farmer's Market Booth in Athens, OH (Dropoff and get clean bucket): \$7.00 per month
- Drop-off at 5991 Industrial Drive, Athens OH: Free, with your own bucket or container

Discounts and free service are available for individuals who volunteer in various capacities. Collection containers range in size from 5 gallon, 7 gallon, and 35 gallon. Residential customers get a free bucket of compost soil amendment each year.

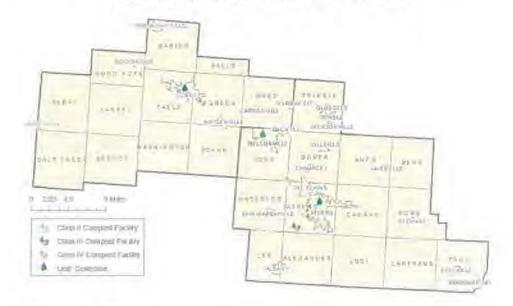
#### Yard Waste

Out of the four registered facilities, one site was open to the public to drop-off yard waste. Latta Earthworks hosted a yard waste drop-off site in Athens, OH that was open to the public from dawn to dusk. Tipping fees for yard waste were as follows:

Up to 2 cubic yard: \$53-5 cubic yards: \$10

5+ cubic yards: \$2 per YD3

The following figure presents the locations of registered compost facilities located throughout the District.



2015 Yard Waste Facilities and Activities

#### Other Activities

The cities of Athens, Logan, and Nelsonville perform seasonal leaf collections. Leaves are composted and land applied. A total of 414 tons of yard waste was managed by these programs in 2015.

The District also provided a guide on backyard composting on its website.

The following table summarizes the program details.

Yard Waste Manage	gement Program Summary	
Description	Details	
Ohio EPA Program ID	5513, 6678, 8537-8539	

Yard Weste Managen	nent Program Summary
Description	Details
Entity Maintaining Program	District, Compost Facilities, City of Athens, City of Logan, and City of Nelsonville
Service Area	District
Materials Recycled	Yard waste
2015 Recycled Tonnage	1,431
Annual Program Costs	\$0
Program Operator/Contractor	District, Compost Facilities, City of Athens, City of Logan, and City of Nelsonville

 Existing programs and facilities in the District divert yard from landfills at no cost to District.

#### Challenges of the program include:

None.

#### 4. Household Hazardous Waste Management

The District, pending adequate financial resources, tries to hold at least one household hazardous waste (HHW) collection event annually in one of the District's counties, alternating the county where the event is held each year. All District residents are welcome at events regardless of whether they reside in Athens or Hocking County. The District was unable to hold an event during the reference year.

The District also provides logistical support for local governments who wish to hold an HHW collection event. In 2015, an event was held at the City of Athens Community Center parking lot to collect household hazardous waste (HHW) from residents of the City of Athens and Athens Township. The event was held on Saturday, July 11, from 9AM to 1PM.

The District hired temporary labor to staff the event. The District advertised the events on its website and ran advertisements in the newspaper. The District also hired a contractor (EEI) to manage materials collected at the event. The City of Athens and Athens Township reimbursed the District for any costs it incurred by organizing the event (such as contractor costs, labor costs, and advertising costs). The District identified the amount the City and

Township should be billed by which percentage of vehicles participating in the event came from the City versus the Township. The District provides logistical support for local governments that wish to hold an HHW collection event but does not provide financial support.

The 2015 event was free for residents of Athens City and Township. Paint was the most common material collected. Examples of materials accepted include:

#### Flammables

 Oil-based paint, lighter fluid, turpentire, flares, propane cylinders, adhesives, kerosene, gasoline, motor oil and filters

#### Corrosives

 Acids and caustics, drain cleaners, pool chemicals, car batteries, household batteries

#### Reactive Materials

·Cyanide, pool chlorine, fertilizers

#### Toxics

 Bleach, ammonia, herbicides, antifreeze, pesticides, insecticides, transmission fluid, brake fluid, mercury

#### Other (Non-HHW) Materials

•E-waste, oil-based paint, latex paint, fluorescent lights, scrap tires 17" rim or less (without rim)

Additionally, HHW collection programs are also held by other organizations throughout the District. The following table summarizes the program details.

Household Hazardous Waste	Collection Program Summary
Description	Dotails
Ohio EPA Program ID	340, 8530, 8531
Entity Maintaining Program	District
Service Area	District

Household Hazardous Waste Collection Program Summary	
Description	Details
Materials Recycled	HHW
2015 Recycled Tonnage	Athens City/Twp.: 9.18 tons District: 16.14 tons Non-District Events (AHRC/OU): 15.07 tons Total: 40.39 tons
Annual Program Costs	\$0
Program Operator/Contractor	District, Athens City/Twp., AHRC, Ohio University

- Collection events are well attended by residents from both counties.
- Program provides residents with opportunities to safely dispose of hazardous or nuisance wastes.

#### Challenges of the program include:

None.

#### 5. Scrap Tire Collection

The District applies for funding to host scrap tires collections each year through Ohio EPA's Scrap Tire Grant program. The District was awarded a grant to fund tire collections during 2015.

The Ohio EPA Scrap Tire Grant enabled the District to hold the following Tire-Drop-Off Events, in cooperation with its numerous partners:

#### Athens County Events:

- Alexander Township/Lee Township April 11, 2015
- · Ames Township/Bern Township April 11, 2015
- Lodi Township April 11, 2015
- Wayne National Forest April 11, 2015
- Bern Twp. September 26, 2015
- City of Nelsonville October 10, 2015

#### **Hocking County Events:**

Salt Creek Township – April 10, 2015

- Ward Township April 18, 2015
- Marion Township April 25, 2015
- Perry Township October 3, 2015
- Falls Township October 10, 2015

The events were promoted on the District's website. Tires 54" or less in diameter with a width of 16" or less were accepted.

The District also holds Recycling Days twice a year in Athens and Hocking counties. Scrap tires and other materials are accepted at the events. In 2015, events were held on Saturday, May 16, and Saturday, October 17.

The following table summarizes the program details.

Scrap Tire Collection	n Program Summary
Description	Details
Ohio EPA Program ID	334
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Scrap tires
2015 Recycled Tonnage	Included in other programs
Annual Program Costs	\$X
Program Operator/Contractor	District

#### Strengths of the program include:

- Program reduces quantity of illegally dumped tires thereby reducing risks to human and environmental health caused by illegally and improperly disposed scrap tires, such as fires and West Nile Virus.
- Privately owned businesses provide ample opportunities for residents to recycle scrap tires, usually at the point of sale when new tires are purchased to replace spent tires.
- Ohio EPA's Scrap Tire Grant program alleviates much of the financial burden associated with holding scrap tire collection events from the District.

#### Challenges of the program include:

None.

#### 6. Electronics Recycling

Computers contain precious metals and valuable components that can be reused or recycled. Materials commonly found in these devices such as cadmium, mercury, chromium, and barium can pollute water and air if they are not properly disposed or recycled.

The District contracted with AHRC to operate events in 2015 that accepted multiple materials including electronics. In 2015, events were held in each District county on Saturday, May 16, and Saturday, October 17.

E-waste was accepted by various privately-owned businesses located in the District including:

- Lowe's, Athens, Ohio: Rechargeable batteries, NiCad batteries, cell phones
- Staples, Athens, Ohio: Office electronics, ink and toner cartridges

Electronic waste generated on the campus of OU is managed directly through the university and its contracted vendors.

The following table summarizes the program details.

	ling Program Summary
Description	Details
Ohio EPA Program ID	N/A
Entity Maintaining Program	District
Service Area	District
Materials Recycled	Computers, electronic devices
2015 Recycled Tonnage	34.69 tons
Annual Program Costs	\$0
Program Operator/Contractor	District, AHRC, OU, privately- owned businesses

Strengths of the program include:

- Electronics collected were properly managed, protecting human and environmental health.
- In addition to special events, multiple locations accepted ewaste for recycling year-round.

Challenges of the program include:

None.

#### 7. Recycling Day Events

The District sponsors "Recycling Day" events in each District county twice a year in May and October. The following table includes details about the events held:

2015 Recycling Day Events

County	Location	Date/Time
Athens	AHRC (Athens Co.) 9009 Sand Ridge Rd.	Saturday May 16, 2015 8AM-12PM
	Chauncey, OH	Saturday October 17, 2015 8AM-12PM
Hocking	AHSWD (Hocking Co.)	Saturday May 16, 2015 8AM-12PM
	33845 Sutton Rd. Logan, OH, 43138	Saturday October 17, 2015 8AM-12PM

Most items accepted at the event are recycled. Some items, such as couches that cannot be donated for reuse, are properly disposed.

The following materials were accepted:

	Material/Item
	Appliances
Refrigerators	
Washers, dryers, stoves	, water heaters, dishwaters, air conditioners
Small appliances (fans, t	oasters, vacuum cleaners, etc.)
	Tires
Car tire	Truck tire
Light truck tire	Tractor tire
	Furniture
Couches and TVs over 2	20"
Hide-a-bed/futons	
Upholstered/padded cha 20", microwaves	irs, mattress and box springs, TVs less than
	Electronics
Computers, cell phones, computer accessories, e	flat screen monitors, copiers, printers, tc.

	Traditional Recyclables
corrugated card	ce paper, computer paper, magazines, catalogs, board, paperboard, glass containers, aluminum cans, lastic containers #1-#7
Scrap metal	
	Universal Waste
Household batte	eries
Fluorescent bul	bs (unbroken only)

The event was advertised on the District's website, as well as by the District's partners and local governments on websites and Facebook pages. The following table summarizes the program details.

Recycling Day Eve	nts Program Summary
Description	Details
Ohio EPA Program ID	299
Entity Maintaining Program	District, AHRC
Service Area	District
Materials Recycled	Aluminum and steel cans, plastic bottles, glass, mixed paper, cardboard, appliances, tires, scrap metal, e-waste, household batteries
2015 Recycled Materials	N/A
Annual Program Costs	\$X
Program Operator/Contractor	District, AHRC

Strengths of the program include:

 Provides residents with a "one-stop shop" solution for recycling and hard to manage materials.

Challenges of the program include:

None.

#### 8. Commercial Cardboard Collection

AHRC operates commercial cardboard collection routes. Cardboard recycling dumpsters are available in 2-, 4-, 6- or 8-cubic yard sizes. Costs vary depending on the size of container and service collection frequency.

The following table summarizes the program details.

Commercial Cardboard Collect	
Description	Details
Ohio EPA Program ID	8923, 8924
Entity Maintaining Program	AHRC
Service Area	District
Materials Recycled	Cardboard
2015 Recycled Collected	N/A
Annual Program Costs	\$0
Program Operator/Contractor	AHRC

 The program provides businesses with a convenient opportunity to recycle one of the most common materials generated by the commercial sector.

#### Challenges of the program include:

 Data collection remains a challenge. The District does not have access to tons collected from this program.

#### 9. School Recycling Collection

The District provides recycling containers, boxes, labels, and related supplies to K-12 schools in Athens and Hocking Counties if requested by the schools and funds are available. When schools request the recycling supplies, the District makes sure that AHRC can provide the collection service. If they agree, then the District provides the supplies.

AHRC collected recyclables from the K-12 schools in Athens and Hocking counties where containers are provided.

The following table summarizes the program details.

School Recycling Collectio	n Program Summary
Description	Details
Ohio EPA Program ID	323
Entity Maintaining Program	AHRC
Service Area	District
Materials Recycled	Cardboard
2015 Recycled Collected	N/A
Annual Program Costs	\$0
Program Operator/Contractor	AHRC

 The program provides schools throughout the District with the supplies needed to operate a recycling program, as well as recycling collection services.

#### Challenges of the program include:

 Data collection remains a challenge. The inability to track tonnage by location or for the overall program makes measuring the effectiveness of programmatic changes or education and outreach efforts difficult.

#### 10. Uptown Athens Restaurant/Bar Glass Recycling

The AHRC received a grant from Ohio EPA to implement a restaurant and bar glass recycling program in the uptown Athens area. The uptown Athens area has the highest density of restaurants and bars in the District. Through the program, the uptown Athens establishments were supplied with bins, labels and training materials to improve glass recycling. Technical assistance to help set up a new or improved recycling system was also available to establishments. The District had no further involvement since 2015 on this program.

The following table summarizes the program details.

Uptown Athons Rostaurant/Bar Summa	
Description	Details
Ohio EPA Program ID	N/A
Entity Maintaining Program	AHRC
Service Area	Uptown Athens
Materials Recycled	Glass
2015 Recycled Collected	N/A
Annual Program Costs	\$0
Program Operator/Contractor	AHRC

#### Strengths of the program include:

 Provides establishments located within close proximity with the tools needed to implement or expand recycling programs that target the heaviest material generated. Challenges of the program include:

None.

### RESIDENTIAL/COMMERCIAL/INDUSTRIAL SECTOR EDUCATION, AWARENESS, AND TECHNICAL ASSISTANCE PROGRAMS

The District utilized a variety of efforts to provide education and awareness for both youth and adult audiences. The following section summarizes the District's education and awareness programs for 2015.

#### 1. Residential Education and Awareness

#### Presentations

The District's coordinator provides presentations to clubs, organizations, and the public at local events to inform residents about recycling and the District's programs upon request.

#### **Public Service Announcements**

The District advertises the part-time recycling drop-off schedule in local papers and on local radio stations weekly. Special collections, such as the county Recycling Day events, are also advertised in local papers and on local radio stations as needed.

#### Website

The District's website (AHSWD.org) was maintained and updated on a regular basis during 2015. The website's "front door" or landing page provides the following:

- "About Us" Section
- Current Solid Waste Plan
- Upcoming Recycling Events
- Contact Information
- Materials Accepted Flyer
- Upcoming Board Meetings

The following table summarizes the program details.

Residential Education and A	
Description	Details
Ohio EPA Program ID	315, 318, 320, 8925, 8926, 8536
Entity Maintaining Program	District, AHRC
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual Program Costs	\$X
Program Operator/Contractor	District, AHRC

- Increased awareness of recycling opportunities by providing comprehensive recycling resources for the public.
- The District's website provides an effective and efficient means for distributing information and notifying residents throughout the rural two-county area about programs and upcoming collection events.
- Promotional support from local media sources reaches a broad audience of District residents, including those that may not have access to the internet.

#### Challenges of the program include:

- The District operates with minimal staff and resources are not always available to divert for presentations.
- Due to the lack of detailed data available for collection programs, the District is unable to target underperforming communities for increased education and awareness programming.

#### 2. Commercial/Industrial Education and Technical Assistance

The District provides recycling education to the commercial and industrial sector through presentations and information posted on its website.

Technical assistance for implementing or expanding a recycling program is also available to commercial businesses and industries upon request.

The following table summarizes the program details.

Commercial/Industrial Education Program Sur	
Description	Details
Ohio EPA Program ID	8534, 8535
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual Program Costs	\$X
Program Operator/Contractor	District

Strengths of the program include:

- Increased awareness of recycling opportunities by providing educational resources to commercial/industrial generators.
- Provides businesses and industries with a desire to implement or improve a recycling program with individualized assistance.

Challenges of the program include:

None.

#### OPEN DUMPING AND LITTER PREVENTION PROGRAMS

To combat litter and illegal dumping issues, two of programs have been implemented. The following section summarizes the District's open dumping and litter prevention programs for 2015.

#### 1. Litter Collection

The District provides bags, gloves, and clean up tools to volunteer groups upon request when funding is available. In 2015, the District received an Ohio EPA Litter Grant, making the continuation of this program possible. The District was also able to provide cleanup supplies and assist with disposal costs for the Great Hocking Cleanup.

The following table summarizes the program details.

Litter Collection Pro	gram Summary
Description	Details
Ohio EPA Program ID	293, 8922
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual Program Costs	\$X
Program Operator/Contractor	District, volunteers

- Positively engages community groups.
- Reduces litter.
- Raises public awareness about littering.

#### Challenges of the program include:

None.

#### 2. Open Dumping and Litter Enforcement

The Athens County Sheriff's Office operates an Environmental Division that focuses on illegal dumping, litter enforcement, and other solid waste laws.

In 2015, a non-profit, Zero Waste Appalachia, received an Ohio EPA grant to purchase of four high-tech cameras and five standard trail cameras. The grant was for \$4,959, which was matched by the District for 10% or \$496.

The cameras were placed on rural public lands in both Athens and Hocking counties to capture illegal dumping. Evidence captured by the cameras makes prosecuting and charging illegal dumpers more likely. The cameras are being used as a tool to reduce dumping.

In Athens County, implementation was handled by the City-County Health Department. In Hocking County, the Sheriff's Department managed the program. The following table summarizes the program details.

Description	Details
Ohio EPA Program ID	7769, 7787
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual Program Costs	\$5,455
Program Operator/Contractor	District

 The District was able to assist the Athens County Sheriff with State grant money to purchase valuable observation tools to assist in litter enforcement.

#### Challenges of the program include:

 The grant was a one-time opportunity to assist the Athens County Sheriff Department. No further activity will occur.

#### MARKET DEVELOPMENT PROGRAMS

#### 1. "Buy Recycled" Promotion

The District utilizes recycled products at presentations and at local events such as county fairs and festivals. Promotional items are also made from recycled materials. The following table summarizes the program details.

"Buy Recycled" Promotion	
Description	Details
Ohio EPA Program ID	8541, 8542
Entity Maintaining Program	District
Service Area	District
Materials Recycled	N/A
2015 Recycled Tonnage	N/A
Annual Program Costs	\$X
Program Operator/Contractor	District

#### Strengths of the program include:

 Demonstrates the closed loop cycle of recyclable materials and products to residents and business that attend the special events. Challenges of the program include:

None.

#### MATERIAL RECOVERY FACILITIES

#### 1. Athens Hocking Recycling Centers Material Recovery Facility

The in-district material recovery facility (MRF) which was constructed in 2015 was designed to accept single stream materials and process up to 20 tons a day.

#### OTHER PROGRAMS

#### Disaster Debris Management Assistance

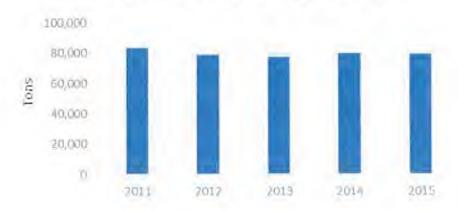
The District provides financial assistance to manage debris resulting from natural disasters such as flooding or tornados when funding is available. During 2015, no disaster debris management assistance was requested.

#### G. Total Waste Generation: Historical Trends Plus Waste Reduction

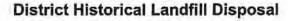
Table IV-7 presents the District's total waste generation patterns over a five-year period spanning from 2011 to 2015. Total waste generation is calculated by summing the total waste landfilled (by direct disposal and transfer), total tons composted, and total tons recycled.

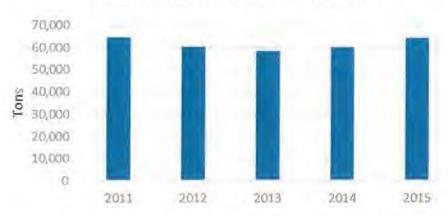
An examination of the District's total waste generation patterns over the five-year period reveals that in 2011, a high of 83,656 tons was generated and in 2013, a low of 77,662 tons were generated. Waste generation fluctuated small amounts but generally remained flat. The following figure presents the District's historical total waste generation.

#### **District Historical Waste Generation**



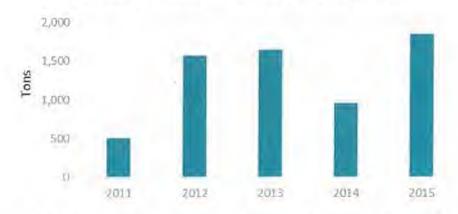
Landfilled waste tonnage was based on actual tonnage reported by landfills, transfer stations, and incinerators from 2011 to 2015. Landfilled waste generally decreased approximately 10% from 2011 to 2013, then increased approximately 10% from 2013 to 2015. The following figure presents the historical landfill totals from 2011 through 2015.





The amount of yard waste composted was significantly greater in 2012, 2013, and 2015 than during 2011 and 2014. Need additional information. OEPA Compost Report does not reflect tonnage reported on ADRs. Need reason for significant fluctuations. The following figure presents the historical yard waste totals from 2011 through 2015.

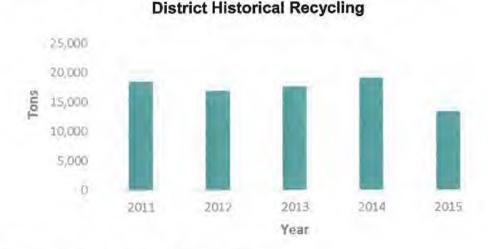
#### **District Historical Yard Waste Management**



The District's residential/commercial sector recycling decreased approximately 29% from 2011 to 2012. The residential/commercial sector's recycling increased 43% from 2012 to 2015.

Industrial sector recycling fluctuated slightly from 2011 to 2014, then decreased significantly (approximately 89%) from 2014 to 2015.

An examination of the District's overall historical recycling patterns reveal a high of 19,049 tons in 2014 and a low of 13,375 tons in 2015. The following figure presents the historical recycling totals from 2011 through 2015.



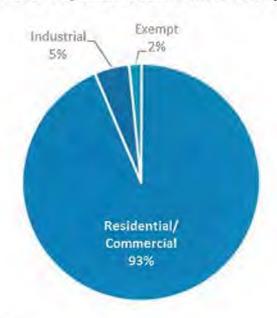
#### H. Reconciliation of Waste Generation

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 uses statewide generation estimates to determine industrial waste generation projections. Residential/commercial generation was determined based upon the average historical per capita waste generation rate. Finally, exempt waste was obtained from actual landfill and transfer station operating reports. Using this methodology, the District estimated 85,120 tons of solid waste generated in 2015. The resulting total generation rate was 4.94 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 2015, District residents, businesses, and industry generated 79,542 tons. The total generation rate was 4.62 pounds per person per day (Table IV-8), which includes recycling and waste disposal from all sectors. The residential/commercial sector generated 74,431 tons or 4.32 pounds per person per day, which includes recycling and yard waste composting. The industrial sector generated 3,746 tons or approximately 0.22 pounds per person per day. Exempt waste generation was 1,364 tons or approximately 0.08 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. The first method of projecting waste generation is based on projections and secondary data sources, which are generally not as accurate as actually weighing the materials. The following figure presents the reference year waste generation by sector based upon using the second method of calculating waste generation.



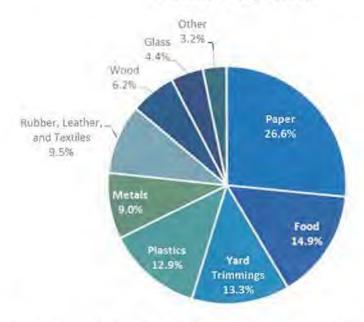
2015 District Adjusted Waste Generation by Sector

#### I. Waste Composition

Residential/commercial waste stream composition is defined using average percentages reported by the U.S. EPA (Table IV-9). The main purpose of reviewing the waste composition is to evaluate the types of materials generated and determine if programs are adequate to manage the diversion of the largest components of the waste stream.

Paper and paperboard were projected to make up the largest component of the residential/commercial waste stream with an estimated 19,799 tons. Each of the curbside recycling programs and drop-offs collected this material. Other significant portions of the waste stream were projected to include food scraps (11,090 tons), yard waste (9,899 tons), and plastics (9,602 tons). The following figure presents the estimated residential/commercial waste composition for the reference year.

#### 2015 District Estimated Residential/Commercial Waste Stream Composition



Using the District's actual 2015 recycling totals from Table IV-5 and U.S. EPA's most recent estimates on MSW generation by material before recycling for 2014, an analysis was performed to identify which materials have the highest recovery rates.

The following adjustments were made to the recycling totals presented in Table IV-5 in order to align the data with the categories presented in EPA's report:

- The District's totals for "other," used motor oil, lead-acid batteries, household hazardous waste, electronics, and dry-cell batteries were combined into the "Other" category.
- The District's totals for ferrous metals, non-ferrous metals, and appliances were combined into the "Metals" category.
- The District's totals for scrap tires and textiles were combined into the "Rubber and Leather" category.
- The District's totals for cardboard and paper were combined into the "Paper" category.
- Commingled tonnage was distributed amongst the paper (50.6%), plastics (23.9%), ferrous metals (12.9%), non-ferrous metals (4.2%), and glass (8.4%) categories. The percentages used to break the commingled tonnage into individual categories was based on values presented in EPA's report.

The following table presents the recovery percentage of the total volume generated for each material reported for the residential/commercial sector:

Material	Actual Quantity Recycled	Estimated Quantity Generated	Recovery as Percent of Generation	Estimated Quantity Disposed
Paper	6,388	19,799	32%	13,411
Food	1,165	11,090	11%	9,926
Yard Trimmings	1,851	9,899	19%	8,049
Plastics	463	9,602	5%	9,138
Metals	1,150	6,699	17%	5,549
Rubber, Leather, and Textiles	1,079	7,071	15%	5,992
Wood	789	4,615	17%	3,826
Glass	720	3,275	22%	2,555
Other	812	2,382	34%	1,570

Recovery percentages are estimates; actual recovery percentages will differ in varying degrees from the percentages presented.

Using the recovery percentages calculated in the above table, the materials with the highest recovery rates include the following:

- Other (34%)
- Paper (32%)
- Glass (22%)

Materials with the lowest recovery rates include the following:

- Yard Trimmings (15%)
- Food (11%)
- Paper (5%)

The materials that had the greatest quantity of tons disposed include the following:

- Glass (13,411 tons)
- Food (9,926 tons)
- Paper (9,602 tons)

The materials that had the least quantity of tons disposed include the following:

- Plastics (3,826 tons)
- Wood (2,555 tons)
- Other (1,570 tons)

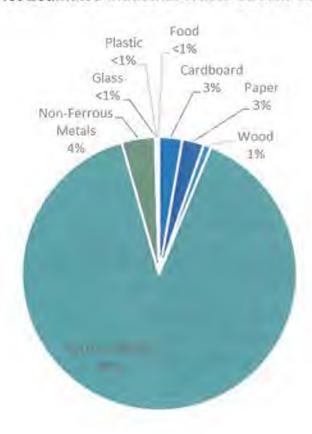
Similar to the residential/commercial waste stream, the purpose for reviewing the industrial waste stream is to determine what types of materials

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 majority (89%) of the District's industrial solid waste stream was ferrous metals (3,350 tons). The following figure presents the industrial waste composition for the reference year.

2015 District Estimated Industrial Waste Stream Composition



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

County/Community Name	2015 Population	2015 Generation Rate (lbs/person/day)	2015 District Residential/Commercia Generation (tons)
Athens County	65,886		
Hocking County	28,491	4.03	69,354
Total	94,377		

Population - Ohio Development Services Agency Office of Research, "2015 Population Estimates by County, City, Village, and Township", May 2016. Generation Rate - 2015 residential/commercial generation rate was estimated using the District's average per capita generation rate from 2010 - 2014 as reported on Ohio EPA's ADR Review Forms.

Adjustments: No adjustments were necessary.

Example calculations:

Total Res/Com Generation =

Population x Generation Rate (lbs/person/day) x 365 (days/year)

2,000 (lb/ton)

69,354 tons =

94,377 x 4.03 x 365

2.000

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

Standard		E SHAME	a spondents		Amounts Ba	seed Upon Si	scendary Date	(Units ported)	Long
Industrial small califor	on Industries	Emplayers	Tons of Wage	Generation Rate (Tlemployee)	n of Industries	# of Employee	Generation Rate (T/employee)	Ton of Wash	Wants
20	0	0	0	0.00	14	170	13.92	2,366	2,366
22	0	0	0	0.00	0	0	9.99	0	0
23	0	0	0	0.00	1	e	2.80	8	80
24	0	0	0	00.00	12	116	51.62	5,988	5,988
25	0	0	0	0.00	m	35	1.79	63	63
26	0	0	0	0.00	0	0	17.50	0	0
27	0	0	0	0.00	4	89	6.70	596	969
28	0	0	0	00.00	0	0	12.43	0	0
29	0	0	0	00.00	0	0	7.33	0	0
30	0	0	0	00.00	m	47	7.29	343	343
31	0	0	0	00.00	0	0	3.41	0	0
32	2	110	0	00.00	10	70	10.55	739	739
33	0	0	0	00.00	-	က	36.93	111	111
34	~	180	616	3.42	10	143	11.16	1,596	2,212
35	3	39	102	2.62	80	94	5.72	538	640
36	3	182	73	0.40	2	6	2.98	27	100
37	0	0	0	0.00	4	33	3.21	106	106
38	-	165	7	0.04	2	54	1.74	94	101
39	0	0	0	0.00	14	223	4.62	1,030	1,030
Total	10	929	798	1.18	101	1.089	N/A	13.604	14.402

Source(s) of information:

2015 District Industrial survey responses

Total number of industries and employees from Reference USA Appendix JJ-2 was used to calculate unreported data

Example calculations (SIC 34):

Survey Respondents:

Waste Generated # of Employees

Generation Rate =

Non-Respondents:

Generation Rate x Number of Employees (Unreported) = Tons of Waste Generation

11.16 x 143 = 1,596

3.42 = 616

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

Type of Waste Stream	Generation Rats (lb/person/day)	Total Exempt Waste Generation (TPY)
Construction/Demolition	0.08	1,364
Total	0.08	1,364

Source(s) of information: Tables III-1 and IV-1

Example calculation:

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

Type of Waste	Generation Rate (lbs/person/day)	Tons/Year
Residential/Commercial	4.03	69,354
Industrial	0.84	14,402
Exempt	0.08	1,364
Total Waste Generation	4.94	85,120

#### 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:

Example calculation:

Reference Year Residential/Commercial Waste Reduction in the District Table IV-5

				incineration,	Composing, Resou	source Recovery
Reduction	T-L	Recycled	TPY	Total Waste Received	Residual	Net Waste Reduced
None	0	Cardboard	4,626	4,626 Incineration*	Ash	Net Incineration*
		Paper	1,276	0.1	0.03	0.07
		Food	1,165	1,165 Composting	Residuals	Net Compost
		Scrap Tres	1,077	1,851	0	1,851
		Commingled	096			
		Wood	789			
		Glass	640			
		Ferrous Metals	615			
		Used Motor Oil	393			
		Non-Ferrous Metals	366			
		Other	266			
		Plastics	234			
		Lead-Acid Batteries	84			
		Household	40			
		Hazardous Waste				
		Electronics	25			
		Dry Cell Batteries	5			
		Appliances	4			
		Textiles	က			
Subtotal		0	12,566	1,851	0	1,851
Grand Total						14,417

Source(s) of information:

2015 District Annual Report and Residential/Commercial Surveys

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

TPY   Recycled   Residual   Nat Waste   Residual   Recorded   Landfilled   Processed   Landfilled   Processed   Corrugated Cardboard   22 Composting   Residuals   Net Composted   Plastics   2	Secultures		Town of Messes		Incineration	Incineration, Composting, Resource Recovery	source Recovery	
Ferrous Metals		TPY	- =	ΥPΥ	Total Waste Received	Residual	Net Waste Processed	
Non-Ferrous Metals         32         15         5           Corrugated Cardboard         22 Composting         Residuals         Net Composted           0.0         Plastics         2         0         0           Plastics         2         0         0         0           Food         1         0         1         0           Glass         1         2         2         2           Class         1         2         2         2			Ferrous Metals	714	Incineration*	Ash	Volume Reducti	no
Corrugated Cardboard         22 Composting         Residuals         Net Composted           0.0         Wood         7         0			Non-Ferrous Metals	32				11
0.0 Wood         7         0<			Corrugated Cardboard	22	Composting	Residuals	Net Composted	
Wood   7     Plastics   2	Oroly	0	Paper	20			_	0
Plastics   2	2	2.5	Wood	7				
Food   1   Glass   1   5   5   1   5   5   1   5   5   5			Plastics	2				
Glass 1 798 15 5			Food					
0.0 798 15 5 otal			Glass	-				
Smind Total	Subtotal	0.0		798			2	11
	<b>Grand Total</b>							809

Source(s) of information: 2015 District Annual Report and Table III-2

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

1	Source R	eduction &	Recycling	Very Waste		Landfill	Disposal		Total Wa
0	R==/Com	Industrial	Total	Composting	Res/Com	Industrial	Exempt	Total	Generati
011	12,274	6,161	18,434	499	60,123	3,645	955	64,723	83,656
012	8,740	8,151	16,891	1,569	57,597	2,280	009	60,477	78,937
2013	9,368	8,254	17,622	1,645	54,703	2,588	1,103	58,394	77,662
014	11,790	7,259	19,049	928	56,394	3,241	422	60,057	80,064
015	12.566	809	13,375	1.851	60.014	2.937	1,364	64,316	79,542

District Annual Reports and Ohio EPA Facility Data Reports.

# Sample calculation (2015):

Total waste generation = Total source reduction & recycling + yard waste composting + total landfill disposal

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

Type of Waste	Generation Rate (lbs/person/yr)	Tons/Year
Residential/ Commercial	4.32	74,431
Industrial	0.22	3,746
Exempt	0.08	1,364
Total Waste Generation	4.62	79,542

Exempt -Table IV-3

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

#### **Example Calculation:**

$$4.62 = \frac{79,542 \times 2,000}{94,377 \times 365}$$

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	26.6%	19,799
Food	14.9%	11,090
Yard Trimmings	13.3%	9,899
Plastics	12.9%	9,602
Metals	9.0%	6,699
Rubber, Leather, and Textiles	9.5%	7,071
Wood	6.2%	4,615
Glass	4.4%	3,275
Other	3.2%	2,382
Totals	100.0%	74,431

Total tons: Table IV-8

Percentage of the waste stream: U.S. EPA, Advancing Sustainable Materials

Management: 2014 Fact Sheet, November 2016, page 7

Based on 2014 "Total MSW Landfilled by Material"

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

Waste Stream Type	TPY Waste Stream Type	TPY Waste Stream	TPY
Cardboard	103 Ferrous Metals	3,350 Plastic	6
Paper	96 Non-Ferrous Metals	148 Food	4
Wood	33 Glass	2	
Subtotal	232 Subtotal	3,501 Subtotal	13
Grand Total			3,746

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

# Example Calculation:

Total Industrial Waste Generated (Table IV-2 - Survey) Total Industrial Waste Generated (Table IV-8) Adjustment Factor =

Adjustment Factor = 4.69

4.6948 = 3,746 ÷ 798

Type of Industrial Waste Generated

Type of Industrial Waste Generated (Appendix F) x Adjustment Factor

(tons) =

103 (tons of cardboard) = 22 (tons of cardboard from Appendix F) x 4.6948

#### 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 fifteen-year planning period. The planning period for this Plan Update is January 1, 2018 to December 31, 2032. The projections and tables in this Plan Update include the years 2015 through 2032.

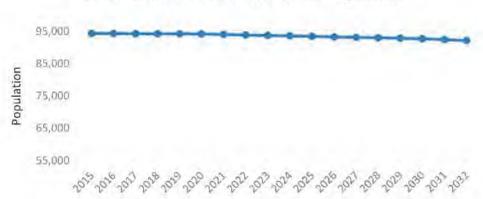
#### B. Population Projections

The District's population projections from the reference year (2015) through the end of the planning period are presented in Table V-1. The Ohio Development Services Agency's (ODSA) 2015 population estimates by county, city, village, and township were used to calculate a base population for the District. Using a second ODSA publication (Ohio County Profiles) which presents population projections by county in 10-year intervals from 2010 to 2040, District population projections were interpolated for intermediate years using a straight-line average.

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. There were no political subdivisions in the District that were located in more than one solid waste management district; therefore, the District's population of 94,377 in the reference year did not need to be adjusted.

Population is expected to decrease 2.5% from the reference year to the end of the planning period. The total number of residents is expected to decrease by 2,229 residents over the planning period. The District is projected to start the planning period in 2018 with a population of 94,259 and end in 2032 with a total population of 92,030. The following figure

presents the estimated District population from the reference year to the end of the planning period.



2015 – 2032 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 2015 reference year and each subsequent year through 2032. In 2015, the District calculated the per capita generation rate based on Ohio EPA's Facility Data Reports for disposal and from the District's 2015 Annual District Report for recycling (with adjustments). The following data was used for this calculation:

2015 Disposal tonnage: 60,014.47

2015 Recycling tonnage: 14,417.08

2015 Total generation: 74,431.48

2015 Residential/commercial

per capita generation rate: 4.32

The District's residential/commercial sector generated 72,895 tons in 2011 and 74,431 tons in 2015, which is an increase of approximately 2% over the 5-year period. The per capita generation rate in 2015 was 4.32 pounds per person per day (PPD). The per capita generation rate for 2025 was projected by increasing the 2015 per capita generation rate by 2%, the same percentage that waste generation increased from 2011 to 2015. Generation rates for intermediate years (2016-2024) were interpolated using a straight-

line average, then held constant from 2025 to 2032. Generation rates were multiplied by the District population and 365 days, then divided by 2,000 to convert pounds generated to tons generated. The following figure presents the estimated residential/commercial waste generation throughout the planning period.

2015 - 2032 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 2015 reference year through 2032.

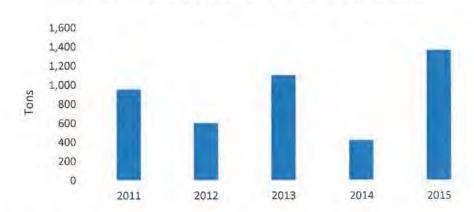
Detailed information such as survey data for the industrial sector was not available. Using the most recent survey data for 2014 and 2015, the District's industrial sector tonnage was significantly lower than reported in previous years. Without the detailed survey data, the District cannot with certainty identify whether the decrease in tonnage is due to missing/incomplete data, uncreditable tonnage previously counted as recycling (such as fluorescent bulbs), or actual changes in the industrial sector. Due to the limited industrial sector data available, industrial sector waste generation has been projected to remain flat throughout the planning period based on volumes known in 2015.

The industrial waste generated by each SIC code in 2015 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 and transfer stations, plus recycling and composting.

#### 3. Total Waste Generation

Total waste generation projections for the District during the planning period are presented in Table V-4. In 2015, the District generated a total of 79,542 tons. This includes residential/commercial waste (74,431 tons), industrial waste (3,746 tons), and exempt waste (1,364 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). The figure below presents the District's exempt waste generation totals from 2011 to 2015.



2011-2015 District Exempt Waste Generation

Generation patterns fluctuated significantly each year. Exempt waste in 2020 was projected using the average tonnage generated from 2011 to 2015. Generation projections were interpolated for intermediate years using a straight-line average. After 2020, tonnage is projected to remain constant.

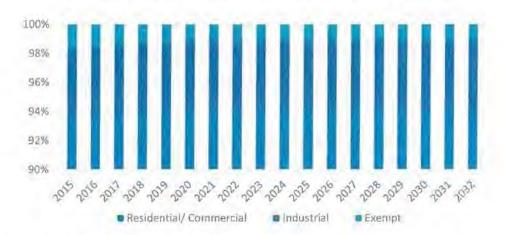
The overall generation rate which includes residential/commercial, industrial, and exempt waste generation in pounds per person per day (PPD) for the reference year is 4.62. The projected per capita generation rate will increase slightly to 4.66 PPD in the final year of the planning period. Total waste generation is projected to decrease from 79,609 tons in the first year of the planning period (2018) to 78,667 tons in the last year of the planning period (2032), which is a decrease of 942 tons or 1.2%.

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

90,000
80,000
70,000
60,000
50,000
30,000
20,000
10,000
0
70,000
10,000

2015-2032 Total District Waste Generation

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



2015-2032 Total District Waste Generation by Sector

#### 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.

Responses to the District's annual survey should alert the District to any major changes generation or waste stream composition. Any significant changes 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 the District strategies for meeting the 1995 State Plan Goals:

#### District Strategies for Meeting 1995 State Plan Goals

Program	ID		7/3	95 Sta	他門	an Go	als	
		(4)	1/2	1.5	1/4	1.51	#6	
RESIDENTIAL/COMMERCIA			nn co	LLEC	TION	PROG	RAM	il.
Curbside Recycling	AH-1	1	1					
Drop-Off Recycling	AH-2	1	1					
Yard Waste Management	AH-3	1	1		1	1		
Household Hazardous Waste (HHW) Management	AH-4	1	1		1	1		
Scrap Tire Collection	AH-5	1	1			1		
Electronics Recycling	AH-6	1	1		1			
Recycle Day Events	AH-7	1	1			1		
Commercial Cardboard Collection	AH-8	1	1					
School Recycling Collection	AH-9	1	1					
RESIDENTIAL/COMMERCIAL/IN	DUSTRIAL	SECT	OR E	DUCA	TION,	AWA	RENE	95.
AND TECHNIC	CAL ASSIS	TANC	EPRO	OGRA	W5			
Residential Education and Awareness	AH-10			1	1			
Commercial/Industrial Education and Technical Assistance	AH-11			1	1			
OPEN DUMPING A	ND LITTER	PREV	ENTI	ON PR	OGR	W		
Litter Collection	AH-12							
MARKET	EVELOPM	ENT P	ROGE	RAMS				
"Buy Recycled" Promotion	AH-13							1
	L RECOV	ERY F	CIL.I	IES				
Athens Hocking Recycling Centers Material Recovery Facility	AH-14							
	THER PRO	CRAN	S					
Disaster Debris Management Assistance	AH-15							
Financial Assistance	AH-16							
District Administrative Assistant	AH-17							
Number of Strategies Per C	Seal	3	9	2	5		0	

#### Residential/Commercial Waste Reduction/Recycling and Education Strategies

The District's residential/commercial waste reduction strategies are presented in Table V-5. Actual data was used for 2015 when possible; however, tonnage for many programs could not be broken out separately.

Diversion for each program from 2015 to 2032 was projected using the following assumptions:

Other Recycling" includes tonnage from non-district programs as well as district programs, including Curbside Recycling (AH-1), Drop-Off Recycling (AH-2), Recycle Day Events (AH-7), and Commercial Cardboard Collection (AH-8). If the District is able to obtain actual or estimated tonnage by program from the contracted program operator and/or service provider for the reference year or later before this Plan Update is completed, revisions to Table V-5 will be made.

Other Recycling was projected to increase 1% annually until 2020, then remain flat for the remainder of the planning period. Using this base calculation, 75% of the tonnage in this category was estimated to come from the curbside and drop-off programs. The remaining 25% of this original calculation, which represents all other programs and residential/commercial recycling, was identified. recycling and drop-off recycling was projected to increase 20% from 2016 to 2018 to reflect additional recycling as a result of transitioning from source-separated to single stream recycling. The original estimate of curbside and recycling tonnage was increased 6.67% annually from 2016 to 2018, or a total of 20% over the course of three years. Curbside and drop-off tonnage is projected to increase 1% annually in 2019 and 2020 before remaining flat for the rest of the planning period. The annual total tonnage for "Other Recycling" was calculated by adding 25% of the original calculation to the new curbside and drop-off estimates.

- Yard Waste Management (AH-3) tonnage is projected to remain constant throughout the planning period based on the 2015 reported totals. Yard waste has fluctuated from 499 tons in 2011 to 1,851 in 2015. During this period, new registered compost facilities have started operating in the District. Because the new facilities do not have historic data, the District is choosing a conservative flat estimate, although it is likely that yard waste composting totals will increase, at least initially, while the new facilities mature and expand.
- Household Hazardous Waste Management (AH-4) is projected to increase 5 tons in 2017 to reflect a planned District-sponsored HHW collection event. Tonnage is projected to remain flat at the 2015 quantity for all other years. The decision to hold a District-sponsored event is decided annually, pending availability of funding.

- Scrap Tire Collection (AH-5) is projected to remain flat from 2016 to 2032. The flat rate is based on the average tons of District-generated scrap tires from 2011 to 2015.
- Electronics Recycling (AH-6) is projected to remain flat from 2015 to 2032. There are no changes planned for the program that would result in predictable or measurable changes in the tons recycled.

The District anticipates that residential/commercial recycling will increase from 14,417 tons in 2015 to 15,668 tons in 2032. Recycling projections were conservatively calculated. Many initiatives to increase recycling throughout the planning period require cooperation from other parties to achieve greater recycling rates. The District did not factor in the increase in tonnage from some initiatives because the cooperation and participation of other entities is not guaranteed. The following strategies address many of the challenges that the District identified with their current solid waste management programs.

## RESIDENTIAL AND COMMERCIAL RECYCLING AND COLLECTION PROGRAMS

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

This program will continue (see description in Section IV). In 2016, the City of Athens curbside recycling program was revamped and curbside customers switched to carts. The District was not involved in this transition, does not operate the program, and therefore does not have details to share about the transition. The challenges of this program presented in Section IV include:

- Tonnage for the curbside recycling program was not available for the overall program or by community. The inability to track tonnage makes measuring the effectiveness of programmatic changes or education and outreach efforts difficult.
- One of the District's largest cities, the City of Athens, has a somewhat transient population due to the presence of Ohio University, making ongoing education necessary.
- Much of the District is rural, which causes collection costs to be higher than in urban areas.
- The majority of communities have subscription-based curbside recycling. Non-subscription curbside recycling

programs are generally more successful and have higher participation rates than subscription-based models.

 The City of Athens' PAYT disposal model only provides financial incentives for homeowners and some commercial accounts. The PAYT program is not managed or influenced by the District.

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

#### Initiative AH-1.1: Working with Haulers to Obtain Tonnage Data

The District was unable to obtain program statistics for curbside recycling programs. Tonnage provided to the District was combined with tonnage from other programs and/or not broken down by community. The District also does not have a clear understanding of residential service area boundaries for one of the haulers. While curbside recycling is not a District program, the data does impact the District's planning efforts, making greater access to data from major service providers in Athens and Hocking counties an important strategy.

Implementation: 2018 - 2032

#### 2. AH-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:

- Providing access in rural areas is costly and yields low tonnage with higher volumes of contaminants and/or non-marketable recyclable materials.
- Tonnage for the curbside recycling program was not available for the overall program or by community. The inability to track tonnage makes measuring the effectiveness of programmatic changes or education and outreach efforts difficult.
- The District has received complaints about drop-off sites overflowing. The District has not been able to resolve this issue with the program operator. Overflowing containers cause drop-off sites to be seen as a nuisance by the hosts of the sites.

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

#### Initiative AH-2.1: Drop-Off Location Monitoring

The District Coordinator will monitor a variety of elements regarding drop-off recycling sites. The District will monitor the following key operational areas:

- Location of drop-off
- Collection hours
- Material accepted
- Participant feedback on program
- Estimated tonnage collected
- Excessive abuse of drop-off sites from contamination or dumping
- Underutilization of drop-off bins
- Collection frequency that does not meet public needs (i.e. issues with over-flow)

Based on this continual monitoring process, the District may adjust the drop-off program on an as-needed basis when improvements are identified or changes are required including when the need to move, create or eliminate a site are recommended. Any changes to the drop-off program in the District will be made to ensure that the District has a 90% or greater recycling access credit in each County of the District.

Implementation: 2018-2032

#### Initiative AH-2.2: Maintaining Acceptable Service Standards

The District will revise its contracts to specify acceptable service standards for program operators to reduce problems such as container over-flow from continuing.

Since this section was originally drafted, the District entered into a contract commencing 1/1/2018 and ending 12/31/2019 with options for two (2) two-year extensions. The contract includes a clause that requires the contractor to keep sites clean and explains that if the District has to clean up due to the contractor's poor service, the District can withhold payment.

The District reserves the right to contract for the drop-off program with the private sector, public sector or hybrid arrangement or operate the program itself. The District also reserves the right to bid

out the contract for drop-off services as needed to ensure a cost effective and high quality program is operated for the residents and businesses in the District.

Implementation: 2018 – 2020

#### Initiative AH-2.3: Branding Drop-Off Recycling Sites

The District will create stand-alone signs for each permanent District drop-off site. Either the recycling logo or the word "recycle" will be prominently displayed on the signs. Signs will also include the District's name and contact information as well as other helpful information, such as materials accepted. Signs will be designed to improve drop-off site visibility and to further the District's "brand." Sign locations will be assessed for each site. The District will work with each site's sponsor to identify an acceptable and suitable location for signs.

Implementation: 2018 – 2020

#### AH-3 – Yard Waste Management (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.

# 4. AH-4 – Household Hazardous Waste (HHW) Management (State Plan Goals #1, #2, #4 and #5)

This program will continue (see description in Section IV). The District intends to conduct collection events during the planning period in both counties. The District may alternate collection events from year to year for each county. The District cannot commit to conducting collection events each year of the planning period. Decisions on whether to conduct events will be based on District fund availability and availability of staff resources.

#### AH-5 – Scrap Tire Collection (State Plan Goals #1, #2 and #4)

This program will continue (see description in Section IV). The District intends to conduct collection events during the planning period in both counties. The District may alternate collection events from year to year for each county or simultaneously conduct events. The District cannot commit to conducting collection events each year

of the planning period. Decisions on whether to conduct events will be based on State grant availability.

#### AH-6 – Electronics Recycling (State Plan Goals #1, #2 and #4)

This program will continue (see description in Section IV). The District intends to conduct collection events during the planning period in both counties. The District may alternate collection events from year to year for each county. The District cannot commit to conducting collection events each year of the planning period. Decisions on whether to conduct events will be based on District fund availability and availability of staff resources.

# AH-7 – Recycling Day Events (State Plan Goals #1, #2, and #5)

This program will continue (see description in Section IV). The District intends to conduct collection events during the planning period in both counties. The District may alternate collection events from year to year for each county. The District cannot commit to conducting collection events each year of the planning period. Decisions on whether to conduct events will be based on District fund availability and availability of staff resources.

#### AH-8 – Commercial Cardboard Collection (State Plan Goals #1 and #2)

This program will continue (see description in Section IV). The challenge for this program presented in Section IV includes:

 Data collection remains a challenge. The District does not have access to tons collected from this program.

The District does not operate the Commercial Cardboard Collection program; therefore, does not have the ability to improve data collected regarding tons collected or participation levels.

#### AH-9 – School Recycling Collection (State Plan Goals #1, #2 and #4)

This program will continue but will require any new school requests to be included in the District's new Financial Assistance program detailed later in this Section.

The District reserves the right to suspend, cancel or expand this program based on annual funding availability throughout the planning period.

#### Uptown Athens Restaurant/Bar Glass Recycling (State Plan Goals #1, #2, #4 and #5)

This program was a one-time opportunity for the District to assist AHRC to develop a glass recycling system in the City of Athens. The District assisted in 2015 with obtaining a pass-through grant. The District had no further involvement since 2015. Therefore, this program will not be included in the planning process for this *Plan Update*.

## RESIDENTIAL/COMMERCIAL/INDUSTRIAL EDUCATION AND AWARENESS PROGRAMS

#### AH-10 – Residential Education and Awareness (State Plan Goals #4 and #5)

This program will continue (see description in Section IV). The District is currently in an agreement with a contractor to provide recycling pick-up for all schools in the District from 2018-2019. The contract has options for two (2) two-year extensions. This point is relevant to note in the education section to highlight that education services provided to schools is provided to schools with the infrastructure to recycle, since the District has included service to these schools in its current contract. The challenges for this program presented in Section IV include:

- The District operates with minimal staff and resources are not always available to divert for presentations.
- Due to the lack of detailed data available for collection programs, the District is unable to target underperforming communities for increased education and awareness programming.

The District is addressing challenges related to the lack of detailed data available for collection programs in other initiatives. Additionally, the District understands that tourism is increasing in the area and will work with the local Visitors Bureaus as appropriate to educate visitors. To address the remaining challenge, the District will implement the following strategies:

#### Initiative AH-10.1: Improve Efficiencies for Presentations

The District researched several education models throughout the State of Ohio where District staff was limited. The model the District would like to implement is a contracted private sector company that would provide an education specialist to meet the requirements of the District. The contract will be performance based which meets the following criteria:

Description	2017	2018	2019	2020	2021 and Beyond
Minimum Presentations/Field Trips	75	100	125	150	150

The program will include the following requirements:

#### Grade School and High School Presentations

Presentations and/or field trips should be conducted for the following school districts:

- Athens Local
- Alexander Local Schools
- Federal Hocking Local
- Laurelville Elementary
- Nelsonville-York City
- Trimble Local
- Logan-Hocking Local

#### District Contractor Requirements

The District selected contractor will be responsible for the following:

- Preparing materials for the presentations and field trips.
- Promoting the program to the schools' districts in Athens and Hocking counties.
- Scheduling presentations and field trips.
- Conducting presentations and field trips.
- Following up with teachers and principals on the performance of the program.
- Reporting to the District on the performance of the program.
   This will include providing the District with an evaluation form for each presentation and/or field trip conducted.

- Interacting with District on program performance and contract management.
- Invoicing the District for services performed. Each invoice will include a copy of the evaluations for each presentation and/or field trip conducted.

The District will request proposals to provide an education specialist that will serve the District. The District will provide a recommendation to the Board on the contractor it believes will best serve the District.

Implementation: 2017 - 2032

#### AH-11 – Commercial/Industrial Education and Technical Assistance

(State Plan Goals #4 and #5)

This program will continue (see description in Section IV).

#### OPEN DUMPING AND LITTER PREVENTION PROGRAMS

#### 1. AH-12 - Litter Collection

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

#### 2. Open Dumping and Litter Enforcement

The grant provided to the Athens County and Hocking County Sheriff Departments was a one-time opportunity to assist both sheriff departments. No further activity will occur in the new planning period.

#### MARKET DEVELOPMENT PROGRAMS

#### 1. AH-13 – "Buy Recycled" Promotion

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

#### MATERIAL RECOVERY FACILITIES

#### AH-14 – Athens Hocking Recycling Centers Material Recovery Facility

This facility will continue (see description in Section IV).

#### OTHER PROGRAMS AND INITIATIVES

#### AH-15 – Disaster Debris Management Assistance

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

#### 2. AH-16 – Financial Assistance Program (New Program)

The District will create a new program to provide financial assistance to District communities and entities starting in 2019. The program will provide one-time funds (if available) for the following:

- Equipment and supplies for the creation of new recycling programs such as curbside recycling, drop-off recycling or school recycling projects.
- Equipment and supplies for existing recycling programs that are being expanded or improved such as curbside recycling, drop-off recycling or school recycling projects.
- Organics and composting initiatives.
- Match moneys for State or Federal grant applications for new or improved recycling programs for equipment and supplies.

The District will develop a budget for annual expenditures in Section VIII of this *Plan Update*. Funds budgeted may not be spent each year and will depend on the qualified applications submitted and available District funding.

The District will create a financial assistance manual which will include funding options and criteria along with an application and grant contract for grantees. The manual will be created in 2018 and the program will be offered in 2019.

The District will obtain prior approval from its Board when seeking to use funding from this program to fund any financial assistance grant application.

#### AH-17 – District Administrative Assistant

The District intends to hire an administrative assistant to the District Coordinator. This new position will provide the following added services to the District:

- Administrative responsibilities
- Program implementation coordination
- Program promotion
- Web site administration
- Board and Policy Committee administrative assistance
- Other duties as assigned by the District Coordinator

The District will add the Administrative Assistant position in 2017 or 2018.

#### 4. AH-18 - Feasibility Studies

The District may conduct special feasibility studies during the planning period to assist communities or entities that are considering developing recycling programs. The studies would assist the communities or entities in determining if the proposed recycling program would be feasible and/or cost effective to implement. A community or entity would need to request assistance from the District and the District would conduct the study if approved by the Policy Committee and if there is sufficient funding to conduct the study. The District cannot determine prior to Plan ratification whether a study will be completed because it cannot predict which, if any, communities will request a study.

Table V-1
District Population Projections

Year	Athens County Population	Hocking County Population	Total District Population
2015	65,886	28,491	94,377
2016	65,649	28,689	94,338
2017	65,412	28,887	94,298
2018	65,174	29,084	94,259
2019	64,937	29,282	94,219
2020	64,700	29,480	94,180
2021	64,626	29,394	94,020
2022	64,552	29,308	93,860
2023	64,478	29,222	93,700
2024	64,404	29,136	93,540
2025	64,330	29,050	93,380
2026	64,256	28,964	93,220
2027	64,182	28,878	93,060
2028	64,108	28,792	92,900
2029	64,034	28,706	92,740
2030	63,960	28,620	92,580
2031	63,760	28,545	92,305
2032	63,560	28,470	92,030

Population - Ohio Development Services Agency Office of Research, "2015 Population Estimates by County, City, Village, and Township", May 2016.

Population projections in 10-year intervals 2000 - 2040 - Ohio Development Services Agency, Ohio County Profiles.

County	County % Change 2015-2032	County Annual % Change
Athens	-3.5%	-0.196%
Hocking	-0.07%	-0.004%
A-H SWMD	-2.5%	-0.138%

Table V-2
District Residential/Commercial Waste Generation (TPY)

Year	District Population	Per Capita Generation Rate	Total Residential/Commercial Waste Generation (TPY)
2015	94,377	4.32	74,431
2016	94,338	4.33	74,549
2017	94,298	4.34	74,667
2018	94,259	4.35	74,784
2019	94,219	4.36	74,902
2020	94,180	4.36	75,019
2021	94,020	4.37	75,040
2022	93,860	4.38	75,060
2023	93,700	4.39	75,080
2024	93,540	4.40	75,099
2025	93,380	4.41	75,118
2026	93,220	4.41	74,989
2027	93,060	4.41	74,861
2028	92,900	4.41	74,732
2029	92,740	4.41	74,603
2030	92,580	4.41	74,475
2031	92,305	4.41	74,253
2032	92,030	4.41	74,032

District Population- Table V-1

Per Capita Generation Rate- IV-8 (2015)

Change in the District's R/C per capita generation rate from 2011 to 2015 (2.1%) used to forecast rate of change for 2025. Intermediate years calculated using straight-line average. Per capita generation rate held constant 2025-2031.

#### Sample calculation (2018):

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)

2018 Total R/C Waste Generation = 94,259 x 4.35 x 365 x 1 ÷ 2,000 = 74,784

Table V-3 Projected Industrial Waste Generation

							No. of London	ī								
	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	615	615	615	615	615	615	615	615	615	615	615	615	615	615	615	615
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
_	2	2	2	7	2	2	2	2	2	2	2	2	2	2	2	2
1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557	1,557
-	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	88	68	88	68	68	68	89	83	68	68	88	88	88	88	88	88
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192	192
29	29	53	23	53	53	53	53	53	53	53	29	29	59	29	29	53
2	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575
166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166
	26	26	56	56	26	56	26	56	56	56	26	26	26	56	26	56
~	28	28	28	28	28	28	28	28	28	28	28	28	28	28	78	28
	26	56	56	26	56	26	26	56	26	56	26	26	26	26	26	26
268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268	268
	3,745	3,748	3,746	3,746	3.746	3.746	3,746	3,746	3,746	3.746	3,746	3.746	3.746	3.746	3 746	3.746

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 Generation projected to remain flat based on 2015 volumes.

Table V-4

Total Waste Generation for the District During the Planning Period (in TPY)

Year	Residential/ Commercial	industrial	Exempt	Total Waste	Generation Ram (lbs/person/day)
2015	74,431	3,746	1,364	79,542	4.62
2016	74,549	3,746	1,269	79,564	4.62
2017	74,667	3,746	1,174	79,587	4.62
2018	74,784	3,746	1,079	79,609	4.62
2019	74,902	3,746	984	79,632	4.63
2020	75,019	3,746	889	79,654	4.63
2021	75,040	3,746	889	79,674	4.63
2022	75,060	3,746	889	79,695	4.64
2023	75,080	3,746	889	79,715	4.65
2024	75,099	3,746	889	79,734	4.65
2025	75,118	3,746	889	79,753	4.66
2026	74,989	3,746	889	79,624	4.66
2027	74,861	3,746	889	79,495	4.66
2028	74,732	3,746	889	79,367	4.67
2029	74,603	3,746	889	79,238	4.67
2030	74,475	3,746	889	79,109	4.67
2031	74,253	3,746	889	78,888	4.66
2032	74,032	3,746	889	78,667	4.66

Residential/Commercial Table V-2 Industrial Table V-3

#### Sample calculation (2015):

Total Waste = Residential/Commercial + Industrial + Exempt 79,542 = 74,431 + 3,746 + 1,364

Generation Rate (lb/person/day) = Total Waste Generated (tons) x 2,000 pounds /ton Population x 365 days/year

 $4.62 = \frac{79,542 \times 2,000}{94,377 \times 365}$ 

Residential/Commercial Waste Reduction Strategies Table V-5

Contain	Program	Type of Material								Tons	ons of Waste Red	Reduction of	Magn							
(Award)	=	Recycled	100	100	M	2018	1	150	100	3937	202	2024	ZNE	2002	MA	20,02	20.00	0,02	Ann	N.
Spendal/Commercial Reg	ding and C	Citaction Promim.																		
Ourbside Recycling	AH-1	Al, Sc, Pl, Gl, MxP, OCC	NN N	NA	NA	NA	N.	NA	N/A	× ×	NA	NA	N/A	NA	NA NA	NA	NA	N/A	N	NA A
Drop-Off Recycling	AH-2	Al, Sc, Pl, Gl, MxP, OCC	NA NA	NA	NA	NA	N/A	NA	NA	N/A	N/A	¥	NA	N/A	N A	NA	NA	NA	NA	N N
Yard Waste Management	AH-3	ΜÅ	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1,851	1.851	1.851	1.851	1,851
Household Hazardous Waste (HHW) Management	AH4	HHM	8	04	<b>£</b>	\$	8	8	8	8	40	49	8	8	8	9	8	8	8	8
Scrap Tire Collection	AH-5	ST	1,077	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142	1,142
Electronics Recycling	AH-6	EW	52	53	22	52	22	22	22	53	53	52	52	52	52	23	52	25	33	23
Recycle Day Events	AH-7	AI, Sc, PI, GI, MxP, OCC, ST, EW, HhB	NA.	NA	NA	NA	NA	NA	NA	N.	NA	N/A	NA	NA	NA	NA	NA	NA	NA	NA
Commercial Cardboard Collection	AH-8	200	NA.	NA	NA	NA	NA	N/A	NA	N.	N/A	¥	N.	WA	N A	NA	NA	NA	NA	NA
School Recycling Collection	AH-9	2200	DIR	NA	NA	NA	NA	NA	NA	¥	N/A	N/	NA	NA	NA	NA	NA	NA	NA	MA
Other Recycling	NA	Varies	11,425	12,115	12,237	12,362	12,486	12,611	12,611	12,611	12,611	12,611	12,611	12,611	12,611	12,611	12,611	12,611	12,611	12,611
		FEIN TOLL	14,61	E S	16.29	15418	15.56	18.00 18.00	16.98	15.60	15.00	13,000	5,888	100	001/S	15,668	11,666	1899	158	ŝ
								۱												

Al = aluminum cans, Sc = steel cans, Pl = plastics, Gl = glass, MxP = mixed paper, OCC = corrugated cardboard, YW = yard waste, HHW = household hazardous waste, ST = scrap tires, EW = electronic waste, HhB =

Source(s) of information: District records, Annual District Reports

Table V-6 Industrial Waste Reduction Strategies

Access		Type of Material							Tome	of 500	FCS R	diretro	n/Raicy	all di						
Seangy	Program #	ReducediRecycled	8	2016	7017	88	를	2020	200	2002	2023	2024	2025	2076	2027	MZ	828	B	Ē	2887
Jamil Sector Technica	Assistance a	and Education Prog	Smart	Second Second	Buj															
strial Recycling	n/a	Varies	798	798	798	738	798	798	798	798	798	798	798	798	798	798	238	238	798	38
		Total	798	798	738	798	798	28	798	798	738	38	738	798	798	798	798	798	238	798

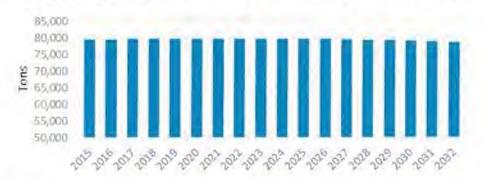
Source(s) of information: 2015 tons - Table IV-6

# 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 of solid waste generated within the District in 2015 was 79,542 tons. Projections estimate that the net tons that will be generated in the District will be approximately 79,609 tons in the first year of the planning period (2018) and 78,667 tons in the last year of the planning period (2032). Waste generated in the District will be managed through recycling, transferring, yard waste composting, and landfilling. The following figure shows the projected total net tons to be managed by the District throughout the planning period.

2015-2032 Total Net Tons to be Managed by the District



During the reference year, 64,327 tons of waste generated in the District were landfilled. The total tons to be landfilled in the first year of the planning period (2018) is 63,392 tons. The amount of waste landfilled is projected to decrease slightly to 62,201 tons by the final year of the planning period (2032). The following figure shows the projected tons to be landfilled throughout the planning period.

2015-2032 Total Landfill Tons to be Managed by the District

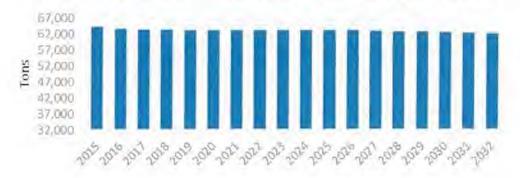


Table VI-2 presents a summary of waste management methods for residential/commercial solid waste generated by the District. This sector's waste was managed by recycling, yard waste composting, transferring, and landfilling. In 2015, the residential/commercial sector generated a total of 74,431 tons. This sector is projected to generate 74,784 tons of solid waste at the beginning of the planning period (2018) and 74,032 tons of solid waste by the end of the planning period (2032). The following figure presents the management methods used to manage residential/commercial waste generation throughout the planning period.

2015-2032 Residential/Commercial Waste Management Methods

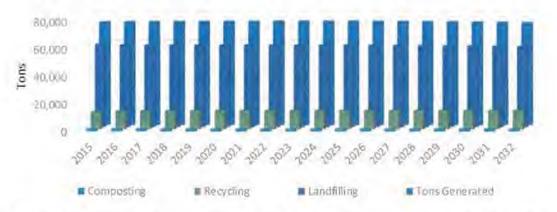


Table VI-3 presents a summary of waste management methods for industrial solid waste generated by the District. This sector's waste was managed by recycling, transferring, and landfilling. In 2015, the industrial sector generated a total of 3,746 tons. Industrial sector waste generation is projected to remain flat throughout the planning period.

The following figure presents the management methods used to manage industrial waste generation throughout the planning period.

2015–2032 Industrial Waste Management Methods

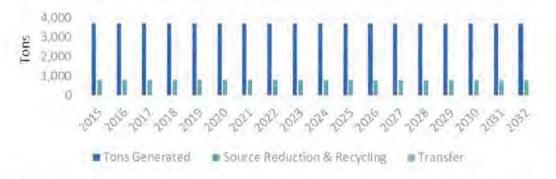


Table VI-4A, "Waste Management Method: Landfill," presents the reference year landfill capacity utilization and anticipated landfill capacity needs

throughout the planning period. The projections in Table VI-4A present the landfill capacity demands from 2015 to 2032. Total tons landfilled includes waste that was directly hauled to landfills and transferred waste.

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 Athens Hocking Reclamation Center Landfill is located in-district and has sufficient remaining airspace to manage 100% of the District's landfilling needs throughout the planning period. This landfill is projected to manage 63% of the District's landfilled waste. Beech Hollow Landfill, located in Jackson County, is projected to manage approximately 30% of the District's waste disposal. Suburban Landfill and Tunnel Hill Reclamation Landfill (both located in Perry County) are each projected to manage 3% of the District's waste. The remaining 1% of waste was managed at six other landfills located in Ohio, Indiana, and West Virginia.

A negligible quantity of waste (16 tons) was treated at a waste-to-energy facility during the reference year. Because the portion of waste managed at incinerators was less than 1%, Table VI-4B, "Waste Management Method: Incineration," has been omitted.

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 2,305 tons of solid waste will be managed by two out-of-district transfer facilities. This quantity decreases to 2,267 tons during the final year of the planning period. Transfer stations manage approximately 3.6% 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 14,590 tons of material annually throughout the planning period. In the first year of the planning period, the District projects approximately 14,366 tons of materials will be recycled. This increases to 14,615 tons in 2020 and remains flat until 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 approximately 1,851 tons of organics annually throughout the planning period.

#### B. Demonstration of Access to Capacity

During the 2015 reference year, one in-district landfill, seven out-of-district landfills, and two out-of-state landfills managed 64,327 tons of solid waste generated by District residents, businesses and industries. The following figure presents the landfills used by the District in 2015.

# Tunnel Hill Reclamation Landfill 3% \_ 1% Suburban Landfill - 1% Beech Hollow Landfill 30% Athens Hocking Reclamation Center Landfill 63%

2015 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, 2032.

The District projects an average need of approximately 63,016 tons or 94,524 cubic yards of landfill capacity annually throughout the planning period. The District will dispose of approximately 945,241 tons of solid waste. Using a 3:1 conversion factor for cubic yards to tons and applying an average 2:1 compaction ratio for landfilled solid waste, the District will need approximately 1.42 million cubic yards of airspace capacity over the fifteen-year planning period.

The landfills used by the District in 2015 had sufficient permitted airspace to dispose of an estimated 122,170,858 tons of solid waste. At least eight of the ten landfills used reported having enough permitted capacity to

manage the entirety of the waste generated within the District from the reference year to the end of the planning period. Overall, the landfills used by the District in 2015 had an average remaining lifespan of more than 38 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, education and awareness, commercial/industrial education and technical assistance, litter collection, 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

The current approved Plan Update authorizes the Board of Directors of the Athens-Hocking Solid Waste District to establish facility designations in accordance with Section 343.014 of the Ohio Revised Code. Facility designation shall be established and governed by applicable District rules.

The District is not designating any facilities in this *Plan Update*. The District reserves the right to designate one or more facilities to receive solid waste.

As required in Section 3734.53(A)(13)(a) of the Ohio Revised Code, the District is identifying all Ohio licensed and permitted solid waste landfill, transfer and resource recovery facilities and all licensed and permitted out-of-state landfill, transfer and resource recovery facilities anticipated to be used by the District. The District is also identifying licensed and permitted recycling and registered composting facilities, including those that are identified in the inventories in Section III of this *Plan Update*.

#### E. Authorization Statement to Designate

The plan must "...contain a clear statement as to whether the Board of Directors is authorized to or precluded from establishing designation under Section 343.014 of the Revised Code..." (Section 3734.53(E)(1) of the ORC). Designation functions as flow control of solid waste for the solid waste management district.

At the present time, the District has not designated any facilities to which District waste must be taken. However, in this Plan the Athens-Hocking Solid Waste District Board of Directors reserves the right to designate a facility or facilities.

The Board of Directors of the Athens-Hocking Solid Waste District is hereby authorized to establish facility designations in accordance with Section 343.014 of the Ohio Revised Code. Facility designation shall be established and governed by applicable District rules.

#### F. Waiver Process for the Use of Undesignated Facilities

If the District establishes facility designation and in the event that any person wants to use a facility, other than a designated facility, for the disposal of municipal solid waste, the person must submit a written request for a waiver of designation to the Board of Directors of the Athens-Hocking Solid Waste District. The request must state the type and amount of material, the facility to be used, the intended duration of the waiver, and the reason for requesting the waiver.

The Athens-Hocking Solid Waste District staff will review the request and may request additional information if necessary. The Board of Directors shall act on the request for a waiver within 90 days after receiving the request. The Board of Directors may grant the request for a waiver if the Board of Directors determines that:

- Issuance of the waiver is not inconsistent with projections contained in the District's approved plan under Section 3734.53 (A) (6) and (A) (7); and
- Issuance of the waiver will not adversely affect implementation and financing of the District's approved plan.

#### G. Siting Strategy for Facilities

The Athens-Hocking Solid Waste District does not intend to site or build any District owned or financed solid waste transfer or municipal solid waste disposal facilities during the planning period. The District does not plan to site any privately owned solid waste transfer or solid waste disposal facilities to serve District needs.

If a private owner decides to site a waste disposal facility or solid waste transfer facility in Athens or Hocking County that requires a permit for construction, enlargement or modification, the District will review the permit application that is submitted to the Ohio Environmental Protection Agency and will actively participate in the public review and comment process to the extent deemed appropriate by the District Board of Directors. The Athens-Hocking Solid Waste District has not chosen to include a siting strategy for solid waste disposal or transfer facilities in this Plan.

The Athens-Hocking Solid Waste District is not including a siting strategy

for facilities that do not require solid waste facility permits, like recycling facilities. These facilities are subject to local zoning and building regulations and will be treated like other industrial manufacturing and processing facilities.

# H. Contingencies for Capacity Assurance and District Program Implementation

The District does not see any occurrence that would significantly limit the disposal capacity available to the District. Therefore, no alternative strategy for disposal capacity is included in this Plan.

At the time that this Plan is being prepared, the Athens-Hocking Recycling Center's Material Recovery Facility (MRF) provided the majority of the recycling collection and processing capacity for the District.<sup>1</sup> The MRF was recently constructed in 2015 and was built to accommodate increased volumes of materials from the District as well as the surrounding region.

In the unlikely event that the District's recycling capacity is inadequate to properly process the recyclables that are generated by the curbside and drop-off programs that are required elements of this Plan, the District will request bids from privately operated materials recovery facilities for necessary processing and marketing services.

<sup>&</sup>lt;sup>1</sup> Table VI-4D lists recycling collection and processing outlets for district recycling. Although Ohio University's tonnage is greater than the volume shown for AHRC, Ohio University's tonnage represents multiple facilities that used to manage materials. Therefore, it is maintained that AHRC provides the greatest collection and processing capacity versus any other single entity listed.

Waste Management Methods Used and Processing Capacity Needed for Each Year of the Planning Period Table VI-1

 Tons	Net Tons to be		Management	Methods in TPY	
Source	Managed by SWMD	Wasta	Yard Waste Composting	Transfer	Landfilling
0	79,542	13,364	1,851	2,330	64,327
0	79,564	14,120	1,851	2,306	63,594
0	79,587	14,246	1,851	2,306	63,490
0	79,609	14,366	1,851	2,305	63,392
0	79,632	14,490	1,851	2,305	63,291
0	79,654	14,615	1,851	2,305	63,188
0	79,674	14,615	1,851	2,306	63,209
0	79,695	14,615	1,851	2,306	63,229
0	79,715	14,615	1,851	2,307	63,249
0	79,734	14,615	1,851	2,308	63,268
0	79,753	14,615	1,851	2,309	63,287
0	79,624	14,615	1,851	2,304	63,158
0	79,495	14,615	1,851	2,299	63,030
-	79,366	14,615	1,851	2,294	62,901
2	79,236	14,615	1,851	2,289	62,772
3	79,106	14,615	1,851	2,284	62,644
4	78,884	14,615	1,851	2,276	62,422
2	78,662	14.615	1,851	2.267	62,201

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

# Sample calculation:

2015 Landfilling = Net Tons to be Managed by SWMD - (Recycling + Yard Waste Composting) 64,327 tons = 79,542 tons - (13,364 tons + 1,851 tons)

Table VI-2 Summary for Residential/Commercial Waste Management Methods

Year	Tons		Management M	ethods in TPY	
rear	Generated	Recycling	Composting	Transfer	Landfilling
2015	74,431	12,566	1,851	2,295	60,014
2016	74,549	13,322	1,851	2,270	59,376
2017	74,667	13,448	1,851	2,270	59,368
2018	74,784	13,569	1,851	2,270	59,365
2019	74,902	13,692	1,851	2,270	59,359
2020	75,019	13,817	1,851	2,269	59,351
2021	75,040	13,817	1,851	2,270	59,372
2022	75,060	13,817	1,851	2,271	59,392
2023	75,080	13,817	1,851	2,272	59,412
2024	75,099	13,817	1,851	2,273	59,431
2025	75,118	13,817	1,851	2,273	59,450
2026	74,989	13,817	1,851	2,268	59,321
2027	74,861	13,817	1,851	2,263	59,193
2028	74,732	13,817	1,851	2,259	59,064
2029	74,603	13,817	1,851	2,254	58,935
2030	74,475	13,817	1,851	2,249	58,807
2031	74,253	13,817	1,851	2,240	58,585
2032	74,032	13,817	1,851	2,232	58,364

Tons Generated - Table V-2 Recycling - Table V-5 Composting - Table V-5 Transfer (2015) - Table III-3

#### Sample calculation (2015):

Landfilling = Tons generated - (recycling + composting)

60,014 tons = 75,431 tons - (12,566 tons + 1,851 tons)

Table VI-3
Summary for Industrial Waste Management Methods

		Mana	gement Method I	n TPY
Year	Tons Generaled	Source Reduction & Recycling	Transfer	Landfilling
2015	3,746	798	35	2,948
2016	3,746	798	35	2,948
2017	3,746	798	35	2,948
2018	3,746	798	35	2,948
2019	3,746	798	35	2,948
2020	3,746	798	35	2,948
2021	3,746	798	35	2,948
2022	3,746	798	35	2,948
2023	3,746	798	35	2,948
2024	3,746	798	35	2,948
2025	3,746	798	35	2,948
2026	3,746	798	35	2,948
2027	3,746	798	35	2,948
2028	3,746	798	35	2,948
2029	3,746	798	35	2,948
2030	3,746	798	35	2,948
2031	3,746	798	35	2,948
2032	3,746	798	35	2,948

Tons Generated - Table V-4
Tons Source Reduction & Recycling - Table V-6
Transfer (2015) - Table III-3

#### Sample calculations (2015):

Landfilling = Tons Generated - Source Reduction & Recycling 2,948 tons = 3,746 tons - 798 tons

Waste Management Method: Landfill Table VI-4A

Altherins Hocking Reciamation Altherins Alther	And the state of t	Parame	Amerapa Teally	100	densiting Gapash	Also	substill substill								Tonsol	Tons of Dance SW Ma	N M	7.							
Reclaimation         Athens         651         51.2         CEPA         13,477,321         9,434,124         40,623         40,163         40,033         29,969         39,904         39,917         39,929         39,924         39,926         39,924         39,924         39,926         39,924         39,924         39,926         39,924         39,924         39,926         39,924         39,926         39,926         39,924         39,926         39,926         39,924         39,924         39,926         39,926         39,924         39,924         39,926         39,927         39,647         39,927         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427         30,1427 <th>The state of the s</th> <th></th> <th>Tons)</th> <th>Jan 1</th> <th>Date</th> <th>(B)) (1)</th> <th>Mat (sover)</th> <th>崔</th> <th>岩</th> <th>E S</th> <th>i i</th> <th>310</th> <th>夏</th> <th>100</th> <th>100</th> <th>NA.</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>1</th> <th>1</th> <th>耳</th>	The state of the s		Tons)	Jan 1	Date	(B)) (1)	Mat (sover)	崔	岩	E S	i i	310	夏	100	100	NA.							1	1	耳
Road Landfill         Hamilton         4,548         14         OEPA         15,649,752         23,619,742         7<	Athens Hocking Reclamation Center Landfill	Athens	651	51.2	OEPA	13,477,321	9,434,124	40,623				39,969								804					9,287
national Eacility         Pike         891         75         OEPA         19,123,890         17,402,740         10	Rumpke Hughes Road Landfill	Hamilton	4,548	14	OEPA	25,843,752	-	7	1	7	7	1	1	7	7	7	7	1	40	9	9	9	0		0
nation Landfill Penry 3,419 22 OEPA 30,531,197 22,229,913 1,858 1,836 1,831 1,828 1,825 1,826 1,826 1,826 1,827 1,828 1,828 1,828 1,839 1,	Pike Sanitation Landfill	Pike	168	72	OEPA	19,123,890	17,402,740	9	10	9	9	10	9	40	9	10	9	10	9	10	9	10	10	10	9
Perry 3,419   22 OEPA 30,531,197 22,229,913 1,858 1,836 1,831 1,828 1,828 1,825 1,825 1,825 1,826 1,	Pine Grove Regional Facility	Fairfield	937	60.1	OEPA	19,320,474	4		96	98	88	88	88	88	88	88	88	32	38	95	88	35	16	75	46
Perry 1,413 20 OEPA 11,207,999 8,069,775 2,116 2,116 12,108 2,101 2,098 2,099 13,007 19,107 19,097 18,099 18,999 1	Tunnel Hill Reclamation Landfill	-	3,419	22	OEPA	30,531,197	22,229,913	1	1,836	1,833	1,831	1,828	1,825	1,825	1,826	1,826	1,827	7	824		918	-	1 608	1	736
Sackson 1,310 62 OEPA 25,640,000 2,102,480 19,207 19,176 19,146 19,146 19,085 19,097 19,103 19,103 19,105 19,116 19,087 19,007 19,105 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 19,097 18,998 18,959	uburban Landfill	Репу	1,413	50	OEPA		8,069,759	2,136	(minut	2,108	2,105	2,101	2,098	2,098	2,099	-	100			2		~	1	-	992
Bary Landfill Gallies 87 27.6 OEPA 950,779 616,105 23 23 23 23 23 23 23 23 23 23 23 23 23	eech Hollow Landfill	Jackson	1,310	62	OEPA	25,640,000	2,102,480	19,429			1		19,085		19,097	100	100		1	1		-	-	-	8.787
Marion (NV) 3,455 19 OEPA 37,844,964 24,205,639 15 15 15 15 15 15 15 15 15 15 15 15 15	allia County Sanitary Landfill	Gallia	87	27.6	OEPA	950,779	616,105	23	23	23	23	23	23	83	23	23			23				-	-	22
Wood (WV) DNR WVDEP DNR 129 128 128 127 127 127 127 127 127 127 127 127 127	outh Side Landfill	Marion (IN)	3,455	62	OEPA	37,844,964	24,205,639	5	15	15	15	15	5	15	15	15	15		15	15	5		15	15	15
MAN WAS TAKEN TO BE THE TAKEN TO SEEN WHICH TAKEN THE TA	Northwestern Landfill	Wood (WV)	DNR	DNR	WYDEP		DNR	129	128	128	121	127	127	127	127	127	127			127	126		126	125	125
		Pala				163,940 JTE	122,170,856	127.18	1	57,44	M		SELVED.			51.245	975	3.28T 8	113	9 0000	9 1002	277.2	3	8	100

Note: Reflects tonnage directly hauled and transferred.

Source(s) of information:

2015 tons - Tables III-1 - III-2 2016 - 2032 tons - Table VI-1

Projected value for each landfill is calculated as a ratio based on the 2015 distribution.

Years of remaining capacity as of 12/31/2015 based on the 2015 rate of receipts

Sample calculation:

- x Total 2016 Beech Hollow Landfill 2015 Total 2015 Beech Hollow Landfill 2016 =-

x 63,594 tons 19,429 tons 64,327 tons

Waste Management Method: Transfer Table VI-4C

	2002		2,076	2,267
	2033	192	2,084	2276
	2030	192	2,092	2,284
	2079	193	2,096	2,289
	2020	193	2,101	2,234
	2027	193	2,105	2,299
	2026	194	2,110	2,304
pageu	2025	194		2,309
SW Mil	2024	194	2,114	2,300
	2023	194	2,113	2,307
JO WILL	2022	194		2,306
	1202	194	2,112	2,306
	2020	194	-	2,306
	2019	194	2,111	2,305
	2018	194	2,111	2,385
	21.0%	194	2,111	2,306
	2018	194	2,112	2,306
	2015	196 194	2,134	2,330
	a manage	Meigs	Ross 2,134 2,112	
The same of the sa	אם מא היאנים	Aeigs County Transfer Station		
The section of the se	Lacillies u	Meigs County	WM of Ohio - Chillicothe	Total

2015 Tons - Table III-3 2016 - 2032 Tons - Table VI-1

Projected value for each transfer station is calculated as a ratio based on the 2015 distribution.

Sample calculation:

x Total 2016 WM of Ohio - Chillicothe 2015 - x 2,306 tons 2,134 tons 2,330 tons WM of Ohio - Chillicothe 2016 =-2,112 tons =-

Table VI-4D
Waste Management Method: Recycling

Name         2015         2016         2017         2018         2020         2021         2020         2021         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         2020         769         76	Facilities Used by District.								Tonsol		District SW Managed	pageu							
703         743         750         763         769 <th>Name</th> <th>2015</th> <th>2015</th> <th>2017</th> <th>2013</th> <th>2018</th> <th>2020</th> <th>1021</th> <th>2022</th> <th>2023</th> <th>2024</th> <th>2025</th> <th>2028</th> <th>2027</th> <th>1202</th> <th>2011</th> <th>2030</th> <th>1030</th> <th>CARR</th>	Name	2015	2015	2017	2013	2018	2020	1021	2022	2023	2024	2025	2028	2027	1202	2011	2030	1030	CARR
ke Dayton Glass         493         521         525         530         539	Rumpke Waste Recycling - Columbus		743	750	756	763	769	692	769	769	769	769	769	769	692	769	692	692	769
3,858         4,076         4,112         4,147         4,183         4,219         4,44         44	Rumpke Dayton Glass Plant	493	521	525	530	534	539	539	539	539	539	539	539	539	539	539	539	539	539
2,056       2,074       2,092       2,110       2,128 <td< td=""><td>Athens Hocking Recycling Center (AHRC)</td><td>3,858</td><td></td><td>4,112</td><td>4,147</td><td>4,183</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td><td>4,219</td></td<>	Athens Hocking Recycling Center (AHRC)	3,858		4,112	4,147	4,183	4,219	4,219	4,219	4,219	4,219	4,219	4,219	4,219	4,219	4,219	4,219	4,219	4,219
9         10 </td <td>Commercial Stores Reporting Directly to Ohio EPA</td> <td>1,946</td> <td></td> <td>2,074</td> <td>2,092</td> <td>2,110</td> <td>2,128</td>	Commercial Stores Reporting Directly to Ohio EPA	1,946		2,074	2,092	2,110	2,128	2,128	2,128	2,128	2,128	2,128	2,128	2,128	2,128	2,128	2,128	2,128	2,128
41         43         43         44<	Athens Twp. and City of Athens HHW Collection	6	10	9	9	10	10	10	10	10	10	10	10	10	10	10	10	9	10
4,605       4,865       4,999       4,993       5,036 <td< td=""><td>Misc. District Collections</td><td>41</td><td>43</td><td>43</td><td>44</td><td>44</td><td>44</td><td>44</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>44</td><td>44</td><td>4</td><td>44</td><td>44</td></td<>	Misc. District Collections	41	43	43	44	44	44	44	4	4	4	4	4	4	44	44	4	44	44
35 and 633 669 675 680 686 692 692 692 692 692 692 692 692 692	Ohio University Recycling Sent Directly to Recyclers other than AHRC	4,605	4,865			4,993	5,036	5,036	5,036	5,036	5,036	5,036	5,036	5,036	5,036	5,036	5,036	5,036	5,036
ercial and 633 669 675 680 686 692 692 692 692 692 692	Registered Scrap Tire	1,077	1,137	-	1,157	1,167	1,177	1,177	1,177	1,177	1,177	1,177	1.177	1,177	1,177	1,177	1.177	1.177	1.177
The same of the sa	Other recycling facilities used by the residential/commercial and industrial sectors	633	699		089	989	692	692	692	692	692	692	692	692	692	692	692	692	692
TALES TO SELECT TALES TO SELECT	Total	13,364	16, 120	145,246	14,366	14,490	14,615	14,615	14,615	14,015	14,515	14,615	14,615	14,615	14,615		14,815 14,615	14,615	14,615

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:

Rumpke Waste Recycling - Rumpke Waste Recycling - Columbus 2015 x Total 2016 Columbus 2016 = Total 2015

743 tons =  $\frac{703}{13,364}$  × 14,120 tons

Waste Management Method: Composting Table VI-4E

Facilities Used by District Name and	Parents								Tons of	Digiter 3V	SW M	nagen							
Location (County & State)	finner	2002	2016	2017	2018	2016	2020	2021	202	1023	2024	202	2025	1207	26,48	200	2070	2007	107
Ohio University Class II Site	Athens	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254	254
Athens-Hocking Recycling Centers, Inc Organics	Athens	97	26	26	26	97	26	97	26	26	26	26	26	26	97	97	26	97	97
Latta Earthworks	Athens	553	553	553	553	553	553	553	553	553	553	923	553	553	223	553	553	553	553
Ohio University Compost Facility	Athens	66	66	66	66	66	88	66	66	66	66	66	66	66	66	66	66	66	86
Southeastem Correctional Institute	Fairfield	14	4	4	41	4	14	14	14	14	14	14	14	14	14	14	14	14	4
City of Athens Leaf Collection (Field Spread)	Athens	296	296	296	296	296	296	296	296	296	296	296	296	296	296	296	296	296	236
City of Logan Leaf Collection (Field Spread)	Hocking	99	99	99	99	09	8	99	99	99	09	09	09	09	09	09	09	09	99
City of Nelsonville Leaf Collection (Field Spread)	Athens	88	88	88	88	28	88	28	28	28	88	88	28	28	88	28	28	88	83
Ohio University (Direct to Composters; Not Through AHRC)	Athens	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420	420
Total		1,851	1981	1,861	1,884	1921	1,851	1881	1,051	1,054	1,854	189	1.651	1,851	1,854	1,851	1,851	1991	1.85

2015 tons - Table III-6 2016 - 2032 tons - Table VI-1 Projected value for each facility is calculated as a ratio based on the 2015 distribution.

Table VI-5 Implementation Schedule for Facilities, Strategies, Programs and Activities: Dates and Description

Proper Name	-	(and the	Description of Program County		THE REAL PROPERTY.
				ENED	CHEAR
Weston Kneyeling	AREA.	Distret	The Chiefrick does not operate or manage quies-de-majoring programs; numbries programs is existing during the relevance year are expected to continue with the exception of Rectification	Ongoing	Oveywing
	milialiya /il- laule s.ta ()	(-1,1) hts/in Tox nage Data	The Divines will attempt to work with it assesses section toyong a statistics are corporations with containing peopling, bit well as clearly recording to section area boundaries.	20 (//	2022
Draw-Olf Resycled	MIZ	Dend	As a 2015, at at the Challet's drop oil sites ware single stream and wit-firm. The District will continue in provide area of recycling sites introughout the two county area.	Dingsino	Organa
	in Kaliho Al- M Location	Z.l: MonNoring	The Eldiror will reactor a surray or elements requesting areason excypting also sist; as locations, public heads are, undersolvation, collection treasuring, and describes above from contentiation and discreping. Based on the continual elementaling process, the District may at just the drop-off program on an assessed to be a full programmatic changes will maintain at least a 90% recycling access credit in each County of the District.	ži is	2012
hyll my y /sh-2-2; http://	kining Acu	opterké Sonki A Stán Kordt	This Direct will sevine its control is to severy song white service standards for program one after to make a problems with as applicant over from born continues. The District reservice he light to control for the strong off program with the program is suctor, justific machines he had an applicant of operate the program (part. The District above success the right to hid out the unshead for deposit controls as needed to present a cost of such and high it pushing program is represent to the reservice and high its program is represented by the resonants and biscinesias in the District.	আia	200
	istorija (Ar Dago-Cie R)	al.1. Hey Gling Siles	The Energy will create stand-attine stops by each parmaner ( District drop-of still. Either the mayeling from or the word  tracycle" will be promisely districted on the signs. Signs will  also tracked the District's came and contact lithers alone as well  as other holpits information. Signs will be resigned to improve  and-of size visibility and to sense the District's Trans."	215	and
Cant W 1344 Association	A64.23	Danel	The exploitment compared tacilities, and imprinting the cultivation and compared tacilities with influence year are expectable to continue and intelligent the facilities may the collection people are specially by the O shall.	Unserg	Charles
faischaid Hutürbeiru Vada (Hi-MY) Nivagamerii	201.4	(Colors)	The Drams intends to conduct solitation man to during the planning period in both counties. The District may electrolic collection owints from year to year for each county. The District context assembly to conducting of location events each year of the planning period. Dissistance on what to be obtained to expect the planning period. Dissistance on what is to conduct events will be taken on District hard sectionably and availability of shall list outside.	Organg	Ottowns
iosip fire Collector	JN-5	poerd	The District inwards to connected leafen then its culting the abouting parted in both counties. The Clistick may about to still add on events from your for each our fifty or inmutationally careful accords. The District care of community careful accords to confer your of the planning period. Discretely on whether to counties are whether the counties of counties are the planning period. Discretely on whether to counties a warms with the based on the branch available the	Ongare	Origing

Table VI-5 Implementation Schedule for Facilities, Strategies, Programs and Activities: Dates and Description

Charles have	Service 1	Lucator	Districted of the grant factory	100	1
Wild the Barrier	100	- A 40 AL - 1	Edition 1 May 1 May 1	Dest.	Dog 44
Electronics Recycling	AH-G	District	The Derical invention conduction retains shall be as ing the partning person in both countries. The District may alternate control of earth property year to year for each country. The District control general to conducting collection where such year of the committee on District Control of each person to the conducting on District Land are country, and expectating of each estimated.	Oracina	longavia
Rocycing Day Events	Mil	Dawis	The District Home & conducted dated exerts outing the planning period in term countries. The District may instrume conducted on exercise from year to year for each today. The District conducted on exercise from year of periods or wants socily year of the planning period. District on whether to conduct exercise in the cases on District fund are southly and over sortly of \$2.5" restricted.	Organia	Dignis
Communication Cas-(Book) Collegion	WHE	David	Commo sal sa sissa il puntition services ani a il fishand (i) continue. The Seal Littles not opiniche or manage this programi	Dingsing	Organia
School Ridgiologi Collection	761-53	i) which	The Crained will continue in process score my contained from the 66 and results supplied to 4-12 solving in America and Harbing Counties report solving than Europe as established and Herita confirms they can proving the enterior objects.	Organg	Chains
Paridired Edutation and Allemanias	WH-10	panci	The Direct of the second of th	Ongong	Citating
	tal = AH-to Sciences for I	). 1 Presentations	The Bank I would like to increment a parameter a based contact with portion sector company to privide an education above to be rather required byte and contact that they are	3017	imi
Communicati Entrantia Entraliativa and Taconical Passiannos	WHITE	David	The District envision rule to granido recycling volucinion livough presentations and in remains posted on the week in. Technical assessments for implementing or expensiving a recycling program will also awaitable to compresse flucinesses and industries upon request.	Dispose	Organg
Later Conscillar	V(H-1)Z	Device	The District in year three in prome pags, gloves, and close up took to your her groups upon board server to having it are lable.	Dingoing	Organd
Buy Respons	AH-13	Desiral	The District will Community using recycled problem for preparations, providing alterns, and all cost exercisions is round face and facilitate when haveing is available.	Umpang	Ungoing
ruhons Hooling Rockyong Carvins Malaylar Recoyon Racilla	701-14	David	The in-Sand map of recovery bid in MRF inflat has constructed in 2015 was resigned to accordingly steam major as and process up to 20 (elesia day. This fund a District tackly.	3015	Allingratio
Disaler Doors. Management Assistance	M(16	David	The District provides in ancill set manual to manage delets less ling from natural disasters audi as flooding or formarist when tunoring is an element.	Tingong	Degring
Franca Asste regrandiek Kos zn	WEH-NG	Device	The Dillection come areas program to a royde francial participants in Control converting to an extensive. The program is program in the large control control (if a control control of a control of a control of a control control of a control control of a control control of a control cont	s21iii	Oygono
Essila Azministrativa Assistant	381-77	Danci	The Digital improve forms an administrative was some the Digital Constraints	2077	2018

#### Table VI-5 Implementation Schedule for Facilities, Strategies, Programs and Activities: Dates and Description

Program Bank	10.4	Lesilon	Description of Program Petitits	100	1986
The same of the sa				100	Tracky
Fozsidilly Studies	MI (-18	il sago	The District may remained reported from billing duction during from planning portion to assess communities or writines the attention stated or anything programs. The studies pould asset in accommunities, at writine of asseminating of the proceed recycling program would be tesselled as also read of the distribution for implement. A community or reality would need to regard assistance from the District and the District would conduct the study of appropriate by the Policy Committee and II there is as a second function to conduct the substance form in the conduct the substance form in the policy Committee and II there is a substance functing to conduct the study.	201 M	303.2

# Table VI-6 Facilities Identified and Current Designations

## Facilities Identified

Recycling, composting, landfills, and transfer stations listed in Section III of this Plan Update have been identified as facilities known to be available to accept materials generated in the District.

## Designated Facilities - ORC 343.14

None.

## 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 institutional 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 institutional 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.

Although the District has committed to maintaining compliance with Goal #1 during the planning period, it is also setting an aspirational goal to reach or exceed the requirements of Goal #2 during the next planning period, which states that at least 25% of residential/commercial waste and 50% of industrial sector waste will be recycled or composted.

## 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/institutional sector. The four materials designated for the residential sector are corrugated cardboard, newspaper, aluminum containers, and plastic containers.

## Designated Materials for the Residential Sector



The four materials designated for the commercial/institutional sector are corrugated cardboard, office paper, steel containers and lead-acid batteries.

#### Designated Materials for Commercial/Institutional Sector



#### 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.

#### Service Area

To ensure that residents in each of the District's counties have access to recycling, each county is being assessed as a separate service area for the access demonstration. The following table presents the population in each service area within the District.

Service Area	Reference Year Population (2015)	First Year of Planning Period Population (2018)
Athens County	65,886	65,174
Hocking County	28,491	29,084

#### b. Access

District Residents the have access to in reduction/recycling services through non-subscription recycling subscription curbside curbside programs, recycling programs, and the drop-off recycling program. Tables VII-2A-B present the access credit calculations for each District county during the 2015 reference year and 2018, the first year of the planning period. The following section will discuss the residents with access to curbside recycling and drop-off recycling for each county in the District.

## Curbside Recycling Access Results

There was one non-subscription curbside recycling program and eighteen subscription curbside recycling programs operating in 2015. These programs, with the exception of one subscription-based program, are expected to still be in operation during 2018. The following table presents a summary of the population with access to curbside recycling programs in each of the District's counties.

## **Curbside Recycling Population Access**

Service Area	2015 Curbside Recycling Access	2018 Curbside Recycling Access
Athena Danata	30,353	30,025
Athens County	46%	46%
Harthan Barrets	2,123	1,816
Hocking County	7%	6%

## **Drop-Off Recycling Access Results**

In 2015, there were six full-time drop-offs and eighteen part-time drop-offs located throughout the District. Drop-offs were open to anyone in the District. The drop-offs accepted the minimum four materials designated for the residential sector as highly amenable to recycling, as well as additional materials. All District drop-offs accepted glass bottles and jars, aluminum and steel cans, #1–#7 plastic containers (except polystyrene), cardboard, cartons, bulk mail, magazines, newspaper, office paper, and paperboard. The following table presents a summary of the population with access to recycling drop-offs in each of the District's counties.

## **Drop-Off Recycling Access**

Service Area	2015 Drop-Off Recycling Access	2018 Drop-Off Recycling Access
Attana Causto	37,500	40,000
Athens County	57%	61%
Hashing County	32,500	32,500
Hocking County	114%	112%

The population with access to drop-offs exceeded 100% in Hocking County. This is due to the method of calculating access credits for drop-offs. Drop-offs in rural areas are credited with providing access for 2,500 people, and drop-offs in urban areas are credited with providing access to 5,000 people. These calculations take into account the radius most residents can reasonable travel to a drop-off location, which may exceed the population of the political subdivision in which the drop-off is located. Access rates in excess of 100% may result when multiple drop-offs are located in the same political subdivision, or when access credits exceed the actual population of a particular community.

## **Overall Recycling Access Results**

The following table presents a summary of the overall access credits for each county in the District during the reference year and the first year of the planning period.

Service Area	Reference Year Access (2015)	First Year of Planning Period Access (2018)
Athena Calmba	67,853	70,025
Athens County	103%	107%
Hantitan Barreta	34,623	34,316
Hocking County	122%	118%

Access calculations that exceed 100% indicate that residents may have access to multiple recycling opportunities, such as non-subscription curbside recycling and a full-time drop-off.

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. In addition, part-time drop-offs that operated during 2015 were transitioned between the end of 2015 and beginning of 2016 to full-time, single stream drop-offs.

#### c. Participation

Districts must demonstrate meeting the participation standard by developing and implementing an adequate education and awareness program and evaluating the feasibility of education programs for promotion of financial incentives to encourage increased recycling and/or waste reduction.

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 audience for educational and promotional programs to encourage recycling includes the residents of the cities, villages, and townships served by the curbside and drop-off programs.

#### d. Financial Incentives

This Plan anticipates the continuation of the pay-as-you-throw waste collection program as described in Section IV. The District will provide information and technical assistance upon request to municipalities, townships or private haulers who voluntarily initiate studies or make a commitment to implement alternate fee structures like volume-based rates. It has been shown that volume-based waste disposal rates

increase participation in all types of residential recycling programs.

#### 2. Commercial/Institutional Sector

Solid waste management districts must demonstrate that commercial and institutional 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 institutional generators.

#### a. Service Area

The service area includes Athens and Hocking counties.

#### b. Access

Methods of providing access for commercial/institutional entities include hauler pickup and drop-off (or buyback) availability. The District designated four materials as highly amenable to recycling for the commercial and institutional sectors including corrugated cardboard, office paper, steel containers, and lead-acid batteries.

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/institutional waste and recovering recyclables from waste received.

The District's drop-offs are publicly available and open to commercial and institutional generators. Drop-off centers accept three out of four of the required materials that are designated as highly amenable to recycling for the commercial/institutional sector (cardboard, office paper, and steel containers).

The following tables present haulers and drop-off locations that provide District businesses and institutions with

opportunities to recycle each of the four materials designated for the commercial and institutional sectors.

## Corrugated Cardboard Access Demonstration

Service Area	Hauling Services Available	Drop-Off Available
Athens and Hocking Counties	Athens-Hocking Recycling Centers, Southern Ohio Disposal, Trace's A-1 Sanitation, Farmer's Refuse and Trucking, Rumpke Recycling	District Drop-Offs, Corvus Recycling (Marietta, OH)

## Office Paper Access Demonstration

Service Area	Hauling Services Available	Drop-Off Available
Athens and Hocking Counties	Athens-Hocking Recycling Centers, Southern Ohio Disposal, Trace's A-1 Sanitation, Farmer's Refuse and Trucking, Rumpke Recycling	District Drop-Offs, Corvus Recycling (Marietta, OH)

## Steel Containers Access Demonstration

Service Area	Hauling Services Available	Drop-Off Available
Athens and Hocking Counties	Athens-Hocking Recycling Centers, Southern Ohio Disposal, Trace's A-1 Sanitation, Farmer's Refuse and Trucking, Rumpke Recycling	District Drop-Offs, Michel's Iron & Scrap (Union Furnace, OH), Collision Scrap Metal (Athens, OH)

## **Lead-Acid Battery Access Demonstration**

Service Area	Buy Back Available	Drop-Off Available
Athens and Hocking Counties	Michel's Iron & Scrap (Union Furnace, OH)	Athens-Hocking Recycling Center, Collision Scrap Metal, Walmart, Advance Auto Parts (Nelsonville & Logan)

Information on hauling services, buybacks, and drop-offs available to the commercial and institutional sectors was obtained through surveying, phone calls and/or internet verification.

#### c. Participation

#### **Education and Awareness**

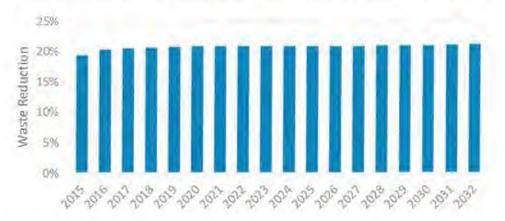
The education and awareness programs articulated in Sections IV and V of this *Plan Update* address this requirement. The District's Commercial/Industrial Education and Technical Assistance program (AH-11) provides businesses with presentations and other resources.

## C. Targets for Reduction and Recycling

#### 1. Residential and Commercial Sectors

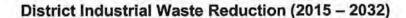
Table VII-3, "Annual Rate of Waste Reduction: Residential/Commercial Waste", presents the methods used to reduce waste and the annual waste reduction rates for residential and commercial waste. The District's residential/commercial sector had a waste reduction rate of 19% in the reference year (2015). Waste reduction increased to 20% in 2015 and is expected to remain at 21% for each year of the planning period. The following figure presents the District's residential/commercial waste reduction projections throughout the planning period.

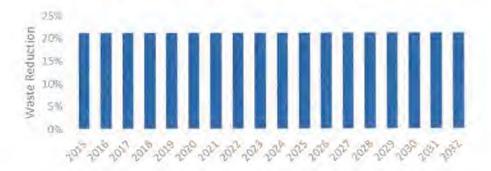
## District Residential/Commercial Waste Reduction (2015 – 2032)



#### 2. Industrial Sector

Table VII-4, "Annual Rate of Waste Reduction: Industrial Waste," presents the annual waste reduction rate for institutional waste. The District's industrial sector had a waste reduction rate of 21% in the reference year (2015). The waste reduction percentage is projected to remain flat through the planning period. The following figure presents the District's industrial waste reduction projections.





#### 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 waste reduction rate for the reference year (2015) was 19%. The waste reduction rate increased to 20% in 2016; waste reduction is projected to remain at 21% each year of the planning period.

Daily per capita waste reduction rates are expected to increase from 0.88 pounds in 2015 to 0.98 pounds in 2032. The following figure presents the District's total waste reduction throughout the planning period.

#### District Total Waste Reduction Percentage (2015 – 2032)

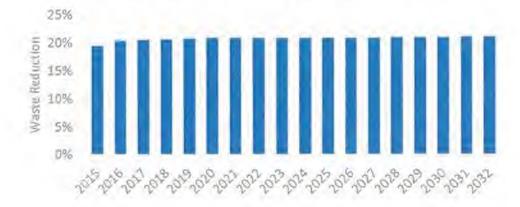


Table VII-1

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/Institutional Sector	Number of Times Materials are Designated
Corrugated cardboard	· X	X	2
Office paper		X	1
Newspaper	X		1
Glass containers			
Steel containers		X	1
Aluminum containers	X		1
Plastic containers	X		1
Wood Packaging & Pallets			
Lead-Acid Batteries		Х	1
Major Appliances			
Yard Waste			
Totals	4	4	8

Table VII-2A Calculation of Access for Residential Sector

	Reference	Year (2015)	First Year of Planning Period (2011)		
Program	Population	Population with Access	Population	Population will Access	
	THENS COUNT	Y SERVICE ARE	A		
Von-Subscription Curb de				A	
City of Athens	25,044	25,044	24,774	24,774	
Subtotal Non-Subscription Curbside		25,044		24,774	
Subscription Curbaide	2 700	000		200	
Village of Albany/Lee Twp.	2,789	697	2,759	690	
Village of Amesville	158	40	156	39	
City of Athens Subdivisions Outside Corporation Limits (i.e. Beachwood Estates, Hickory Hills, etc.)	100	25	101	25	
The Plains	3,134	783	3,100	775	
Village of Coolville	493	123	488	122	
Unincorporated Community of Torch	102	25	101	25	
Unincorporated Community of Stewart	251	63	249	62	
New Marshfield (Census Designated Place)	332	83	328	82	
Village of Jacksonville	484	121	479	120	
Millfield (Census Designated Place)	347	87	343	-86	
Village of Chauncey	1,039	260	1,028	257	
Village of Glouster	1,797	449	1,778	444	
Village of Trimble	398	100	394	98	
Unincorporated Community of Guysville	1,792	448	1,773	443	
AlexanderTwp.	2,823	706	2,793	698	
City of Nelsonville	5,197	1,299	5,141	1,285	
Subtotal Subscription Curbside		5,309		5,252	
Full-Time Brop-Off			0000		
[290] Athens-Hocking Recycling Centers (DoverTwp.) 9009 Sand Ridge Road Mill field, OH 45761	3,619	2,500	3,580	2,500	
[5516-A] Nelsonville City Drop-Off#1 (serviced by Southern OH Disposal) Advanced Auto 1160 E. Canal St. Nelsonville, OH 45764	5,197	5,000	5,141	5,000	
[5516-B] Nelsonville City Drop-O ff #2 (serviced by Southern OH Disposal) City Hall 211 Lake Hope Dr. Nelsonville, OH 45764	5,197	5,000	5,141	5,000	
[5500] Albany Village/Lee Twp. Twp. Bidg. 5540 State St. Albany, OH 45710			2,759	2,500	

Table VII-2A
Calculation of Access for Residential Sector

	Reference	Year (2018)	First Year of Planning Period (2018)		
Pitteylen	Fogulation	Population with Acress	Popul son	Population with	
	THEMS COUNTY	SERVICE ARE	A		
[5498] Bufchel Village/York Twp. Village Hall Parking Lot 17710 N. Akron Ave. Buchtel, OH 45764			7.484	5,000	
[8526] Cansan Twp. Twp. Garage 15266 US Rt. 50 E. Athens, OH 45701			1,667	2,500	
[5501] Coolville Village/Troy Twp. Twp. Garage behind Gol/lert 25780 Brimstone Rd. Coolville, OH 45723			2,578	2,500	
[8363] Glouster Village/Trimble Twp. HAPCAP Bldg. 3 Cardaras Dr. Glouster OH 45732			4,442	2,500	
[5495] Guysville/Rome Twp. Marathon Station 19100 US-50 Guysville, OH 45735			1,306	2,500	
[5496] Athens Co. Engineer's Outpost 5 Main St. Amesville, OH 45711			156	2,500	
5497] New Mars hfield Village/Waterloo Twp. New Mars hfield Community Center 3993 Old SR 56 New Mars hfield, OH 45768			2,552	2,500	
5499] Shade Village/Lodi Twp. Shade Community Cenfer 2380 Darwin Road Shade, OH 45776			1,419	2,500	
5493] Trimble Village/Trimble Twp Twp. Garage 100 W. Mein St 3louster, OH 45723			4,442	2,500	
otal Full-Time Drop-Off		12,500		40,000	
St. Time Brow-GH					
5500) Albany Village/Lee Twp. Twp. Bldg. 5540 State St. Albany, OH 45710	2.789	2,500			

Table VII-2A
Calculation of Access for Residential Sector

	Reference	Year (2015)	First Tear of Planning Period (2016)		
Program	Population	Population with Access	Population	Population nat	
The state of the s	THE H 5 COUNT	SERVICE ARE	No.		
5498] Butchel Village/York Twp. Village Hall Parking Lot 17710 N. Akron Ave Buchtel, OH 45764	7,566	2,500			
8526] Canaan Twp. Twp. Garage 15266 USR1.50 E. Athens, OH 45701	1,685	2,500			
5501] Coolville Village/Troy Twp. Twp. Garage behind Golflart 25780 Brimstone Rd. Coolville, OH 45723	2,606	2,500			
8363] Glouster Village/Trimble Twp. HAPCAP Bidg. 3 Cardaras Dr. Glouster OH 45732	4,490	2,500			
[5495] Guysville/Rome Twp. Marathon Station 19100 US-50 Guysville, OH 45735	1,320	2,500			
[5496] Athens Co. Engineer's Outpost 6 Main St. Amesville, OH 45711	158	2,500			
[5497] New Marshfield Village/Waterloo Twp. New Marshfield Community Center 3993 Old SR 56 New Marshfield, OH 45766	2,580	2,500			
[5499] Shade Village/Lodi Twp Shade Community Center 2380 Danvin Road Shade, OH 45776	1,434	2,500			
[5493] Trimble VIIIage/Trimble Twp. Twp. Garage 100 W. Main St. Glouster, OH 45723	4,490	2,500			
Total Part-Time Drop-Off		25,000		0	
Athens County Population 90% of Athens County Population Additional Population Needing Access	65,886 59,297 -8,555		70,025 65,174 58,657 -11,368		
Access Percentage		1075		107%	

Table VII-2B
Calculation of Access for Residential Sector

	Reference	Year (2015)	First Year of Planning Period (2016		
Program	Population	Population with Access	Pepulstion	Population with Access	
	KING COUNTY	SERVICE ARE			
Mori-Subscription Curbside			-		
None	0	0	0	0	
Subtotal Non-Subscription Curbside		0		0	
Subscription Curteride Unincorporated Community of				1	
Rockbridge/Good Hope Twp.	1,376	344		0	
City of Logan	7,117	1,779	7,285	1,816	
Subtotal Subscription Curbside		2,123		1,816	
full-Time Drop-Off					
[8919] Green Twp. Twp. Maintenance Bldg. 20995 County Rd. 33B Logan, OH 43138	3,201	2,500	3,268	2,500	
[9090] Hodding Valley Community Hospital 601 State Route 664 N Logan, OH 43138	7,117	5,000	7,265	5,000	
[291] Athens-Hocking Solid Waste District 33845 Sutton Road Logan OH, 43138	7,117	5,000	7,265	5,000	
[5507] Benton Twp. Twp. Maintenance Bidg. 20995 SR 664 South Logan, OH 43138			804	2,500	
N/A] Carbon Hill/Ward Twp Ward Township Building 15044 Fifth St Nelsonville, OH 45764			1,513	2,500	
[M/A] Gibisionville/Laurel Twp. Gibisonville Community Center 1 Market St. Gibisonville, OH 43149			1,170	2,500	
8527] Good Hope Twp. Twp. Garage 26836 Main St. Rockbridge, OH 43139			1,405	2,500	
5504] Laurelville 16055 Main St. Jaurelville, DH 43135			528	2,500	
5505] Marion Twp. Twp. Bldg. 30767 Logan Homsmill Rd. Jogan, OH 43138			2,467	2,500	

Table VII-28
Calculation of Access for Residential Sector

	Reference	Vest (2015)	First Year of Planning Period (201)		
Program	Population	Population With Access	Population	Propulation with Access	
	CKING COUNT	SERVICE ARE		_	
(5502) Murray City VillageAV ard Twp. 13953 Locust St. Murray City, OH 45732			1,513	2,500	
[5506] Starr Twp Twp. Bidg. Main St. Union Furnace, OH 43158			1,559	2.500	
Total Full-Time Drop-Off		12,500		32,500	
Part-Time Drop-Off					
[5507] Benton Twp. Twp. Maintenance Bldg. 20995 SR 664 South Logan, OH 43138	788	2,500			
[N/A] Carbon Hill/Ward Twp Ward Township Building 15044 Fifth St. Nelsonville, OH 45764	1,482	2,500			
[N/A] Gibisionville/Laurel T vp Gibisonville Community Center 1 Market St Gibisonville, OH 43149	1,146	2,500			
[8527] Good Hope Twp. Garage 26836 Main St. Rockbridge, OH 43139	1,376	2,500			
[5504] Laurelville 16055 Main St. Laurelville, OH 43135	517	2,500			
(5505) Marion Twp. Twp. Bldg. 30767 Logan Homsmill Rd. Logan, OH 43138	2,417	2,500			
[5502] Murray City Village Ward Twp. 13953 Locust St. Murray City, OH 45732	1,482	2,500			
[5506] Starr Twp. Twp. Bidg. Main St. Union Furnace, OH 43158	1,527	2,500			
Total Part-Time Drop-Off	20,000		0		
Total Population With Access	34.03		34,516		
Hocking County Population 90% of Hocking County Population Additional Population Needing Access		28,491 25,642 -8,981		29,084 26,176 -8,140	
Automa Perentaga		1/24		118%	

Table VII-3
Annual Rate of Waste Reduction: Residential/Commercial Waste

Year	Recycling	Composting	Landfill	Total Waste Reduction	Population	Wage Reduction Rate (%)	Per Capita Wast Reduction Rate (lb/day)
2015	12,566	1,851	60,014	14,417	94,377	19%	0.84
2016	13,322	1,851	59,376	15,173	94,338	20%	0.88
2017	13,448	1,851	59,368	15,299	94,298	20%	0.89
2018	13,569	1,851	59,365	15,419	94,259	21%	0.90
2019	13,692	1,851	59,359	15,543	94,219	21%	0.90
2020	13,817	1,851	59,351	15,668	94,180	21%	0.91
2021	13,817	1,851	59,372	15,668	94,020	21%	0.91
2022	13,817	1,851	59,392	15,668	93,860	21%	0.91
2023	13,817	1,851	59,412	15,668	93,700	21%	0.92
2024	13,817	1,851	59,431	15,668	93,540	21%	0.92
2025	13,817	1,851	59,450	15,668	93,380	21%	0.92
2026	13,817	1,851	59,321	15,668	93,220	21%	0.92
2027	13,817	1,851	59,193	15,668	93,060	21%	0.92
2028	13,817	1,851	59,064	15,668	92,900	21%	0.92
2029	13,817	1,851	58,935	15,668	92,740	21%	0.93
2030	13,817	1,851	58,807	15,668	92,580	21%	0.93
2031	13,817	1,851	58,585	15,668	92,305	21%	0.93
2032	13,817	1,851	58,364	15,668	92,030	21%	0.93

Recycling, composting, and landfill tonnage - Table VI-2 Population - Table V-1

#### Sample calculations (2015):

Recycling + composting = Total waste reduction 12,566 tons + 1,851 tons = 14,417 tons

Total waste reduction  $\div$  (total waste reduction + landfill) x 100 = Waste reduction rate 14,417 tons  $\div$  (14,417 tons +60,014 tons) x 100 = 19%

(Total waste reduction x 2,000 lbs)  $\div$  (District population x 365 days) = Per capita waste reduction rate (14,4177 tons x 2,000 pounds)  $\div$  (94,377 x 365) = 0.84 lbs/day

Table VII-4
Annual Rate of Waste Reduction: Industrial Waste

Year	Recycling	Landfill	Population	Waste Reduction Rate (%)	Per Capita Wasts Reduction Rate (lb/day)
2015	798	2,948	94,377	21%	0.05
2016	798	2,948	94,338	21%	0.05
2017	798	2,948	94,298	21%	0.05
2018	798	2,948	94,259	21%	0.05
2019	798	2,948	94,219	21%	0.05
2020	798	2,948	94,180	21%	0.05
2021	798	2,948	94,020	21%	0.05
2022	798	2,948	93,860	21%	0.05
2023	798	2,948	93,700	21%	0.05
2024	798	2,948	93,540	21%	0.05
2025	798	2,948	93,380	21%	0.05
2026	798	2,948	93,220	21%	0.05
2027	798	2,948	93,060	21%	0.05
2028	798	2,948	92,900	21%	0.05
2029	798	2,948	92,740	21%	0.05
2030	798	2,948	92,580	21%	0.05
2031	798	2,948	92,305	21%	0.05
2032	798	2,948	92,030	21%	0.05

**Note:** Incineration and waste reduction via incineration represented a negligible percentage of waste and was removed from waste reduction calculations.

#### Source(s) of information:

Recycling and landfill data - Table VI-3 Population - Table V-1

#### Sample calculation (2015):

Recycling ÷ (recycling + landfill) x 100 = Waste reduction rate 798 tons ÷ (798 tons + 2,948 tons) x 100 = 21%

Recycling x 2,000 pounds ÷ (district population x 365 days) = Per capita waste reduction rate

(798 tons x 2,000 pounds) ÷ (94,377 x 365) = 0.05 lbs/day

Table VII-5
Annual Rate of Waste Reduction: Total District Solid Waste

Year	Recycling	Gomposilig	Landfill	Tons Waste Reduction	Population	Reduction Rate	Par Capita Waste Reduction Rate (lb/day)
2015	13,364	1,851	62,962	15,215	94,377	19%	0.88
2016	14,120	1,851	62,324	15,971	94,338	20%	0.93
2017	14,246	1,851	62,316	16,096	94,298	21%	0.94
2018	14,366	1,851	62,313	16,217	94,259	21%	0.94
2019	14,490	1,851	62,307	16,341	94,219	21%	0.95
2020	14,615	1,851	62,299	16,466	94,180	21%	0.96
2021	14,615	1,851	62,320	16,466	94,020	21%	0.96
2022	14,615	1,851	62,340	16,466	93,860	21%	0.96
2023	14,615	1,851	62,360	16,466	93,700	21%	0.96
2024	14,615	1,851	62,379	16,466	93,540	21%	0.96
2025	14,615	1,851	62,398	16,466	93,380	21%	0.97
2026	14,615	1,851	62,269	16,466	93,220	21%	0.97
2027	14,615	1,851	62,141	16,466	93,060	21%	0.97
2028	14,615	1,851	62,012	16,466	92,900	21%	0.97
2029	14,615	1,851	61,883	16,466	92,740	21%	0.97
2030	14,615	1,851	61,755	16,466	92,580	21%	0.97
2031	14,615	1,851	61,533	16,466	92,305	21%	0.98
2032	14,615	1,851	61,312	16,466	92,030	21%	0.98

Recycling, composting, incineration, waste reduction via incineration, landfill, and population - Tables VII-3 and VII-4

#### Sample calculation (2015):

Recycling + composting = Tons waste reduction

13,364 tons + 1,851 tons = 15,215 tons

Total waste reduction + (total waste reduction + landfill) x 100 = Waste reduction rate  $15,215 \text{ tons} + (15,215 \text{ tons} + 62,962 \text{ tons}) \times 100 = 19\%$ 

(Total waste reduction x 2,000 lbs)  $\div$  (District population x 365 days) = Per capita waste reduction rate (15,215 tons x 2,000 pounds)  $\div$  (94,377 x 365) = 0.88 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 2015 through 2017 are based on actual revenues received and costs expended. The planning period includes cost projections based on these initial years. Revenue and expenses presented in this Section are the most accurate as compared to previously submitted quarterly fee reports for 2015 and 2016. In 2017, there are no deviations from the Quarterly Fee Reports except there may be some differences in totals reported for individual line items due to different categories presented in the Quarterly Fee Reports versus the Plan Update.

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.

## A. Funding Mechanisms

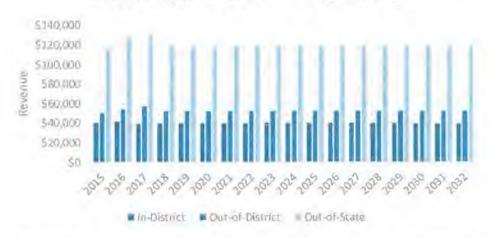
## 1. District Disposal Fees

Table VIII-1, "District Disposal Fee Schedule and Revenues Generated," presents an estimate of total District disposal fee revenues for the planning period. During the reference year, the disposal fee schedule was \$1.00 per ton for in-district waste, \$2.00 per ton for out-of-district waste and \$1.00 per ton for out-of-state waste. In 2015, the disposal fee yielded \$207,180 in revenue.

The total in-district and out-of-state tonnage in Table VIII-1 for 2015 through 2017 was calculated by using the totals from the District's Quarterly Fee Reports. The out-of-district disposal fee tonnage was calculated by dividing the out-of-district disposal revenue by two, since the out-of-district fee schedule is \$2 per ton. The revenue presented in Table VIII-1 for 2015 through 2017 is based on reported values in the Quarterly Fee Reports. The 2018 totals are based on the District's approved budget. Projections for in-district tonnage were taken from the tonnage that is expected to be managed at the Athens-Hocking Reclamation Center Landfill, as listed in Table VI-4A. Out-of-district and out-of-state tonnage were projected using a flat annual amount calculated by taking the 2013 to 2017 average.

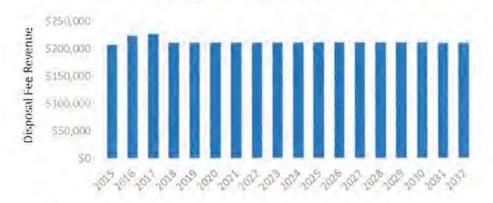
More than half (approximately 56-57%) of disposal fee revenue is collected from tonnage generated out-of-state. The following figure presents the actual and projected disposal fee revenue by fee type:

## District Disposal Fee Revenue by Fee Type



Disposal fee revenue for the first year of the planning period (2018) is projected to be \$211,001. Revenue will decrease modestly throughout the planning period. In 2032, the final year of the planning period, disposal fee revenue is anticipated to be to \$210,255. The following figure presents the total actual and projected disposal fee revenue for this *Plan Update*.

#### District Disposal Fee Revenue



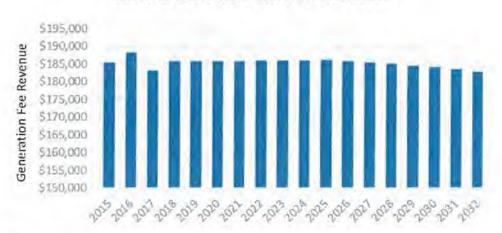
#### 2. Generation Fee

In accordance with Section 3734.573 of the Ohio Revised Code and under the District's current *Solid Waste Management Plan*, the District collects a \$3.00 per ton generation fee on municipal solid waste. The generation fee will continue to be collected by the receiving transfer stations, landfills or any other applicable solid waste facilities in Ohio for each ton of waste that is generated within

the District and disposed. These monies will be forwarded to the District pursuant to 3745-28-03 of the Ohio Administrative Code.

The District does not plan to increase the generation fee for this Plan Update.

Table VIII-2 presents the generation fee schedule and revenues. Actual generation fee revenue matching the District's Quarterly Fee Reports was used for 2015 through 2017. Generation fee revenue for 2018 to 2032 is based on the total tons of solid waste generated within the District from Table VII-5. The following figure presents the actual and projected disposal tonnage that qualifies for generation fee collection for this *Plan Update*:



2015-2032 Generation Fee Revenue

#### Grants

The District received Ohio EPA grants in 2015 totaling \$11,196, in 2016 totaling \$22,802, and in 2017 totaling \$24,270. Grants are competitive and not guaranteed; therefore, the District is not including grant revenue projections into this *Plan Update*. The District reserves the option to apply for grants on an as-needed basis throughout the planning period.

## 4. Pass-Through Grants

In 2015, the District served as a pass-through agent for an Ohio EPA grant. The District is not projecting additional pass-through grants for this *Plan Update* but may serve as a pass-through agent on an as-needed basis.

#### 5. Reimbursements

The District received reimbursement revenue from the City of Athens and Athens Township for HHW collection events in 2016. The District is not projecting additional reimbursement revenue for the remainder of the planning period.

#### 6. Miscellaneous

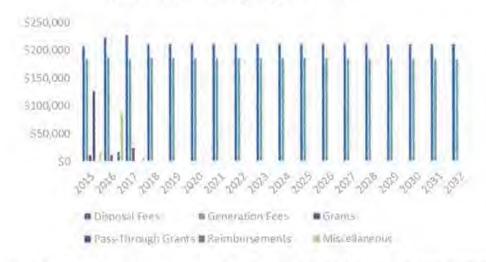
The District received revenue from the liquidation of assets from 2015 to 2017 as a result of the District's restructuring. The District does not anticipate any additional revenue from this source during the planning period.

## 7. 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 2015 through 2017.

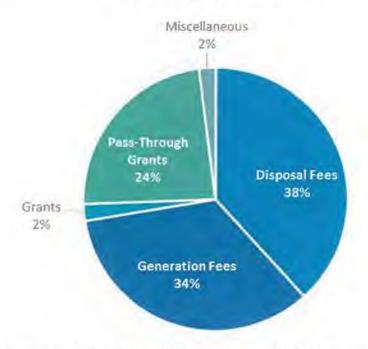
In 2015, total revenue was \$542,329. During the first year of the planning period, total revenue is projected to be \$396,864. Revenue is projected to decrease to \$393,134 by 2032, the final year of the planning period. The following figure presents the District's revenue by type of funding mechanism:

#### District Revenue by Type of Fee



The following figure presents the percentage of revenue generated by each funding mechanism used in 2015.

## Percentage of Revenue Generated in 2015 by Each Funding Mechanism



In the reference year, disposal fees represented the greatest source of District revenue (38%), followed by generation fees (34%). Pass-Through Grants represented 24% of the revenue, although this revenue was forwarded to a grant applicant and did not contribute to the District's operating funds. Grants and miscellaneous sales from the liquidation of assets each represented 2% of the District's overall revenue.

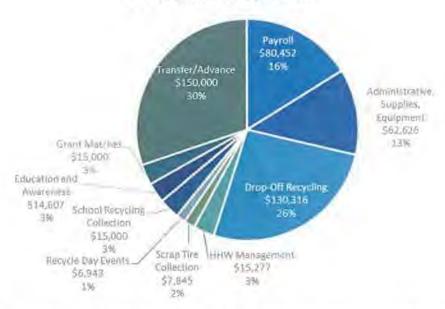
## B. Cost of Plan Implementation

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.

Table VIII-5, "Estimated Cost for Plan Implementation", presents a detailed breakdown of expenditures for each year of the planning period.

The District Coordinator will allocate these funds with the approval of the County Commissioners. The following figure presents a summary of expenses in 2015:

## 2015 District Expenses



The expenditures presented in the Plan budget include actual expenditures and encumbrances for 2015 through 2017. 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. Expenditures for 2018 were based on the District's approved budget. The following section explains the projection methodology for expenditures throughout the planning period.

#### **District Administration Budget**

District trends.

The District Administration Budget includes payroll expenditures such as salaries and Medicare expenses, as well as the budget for legal services, audit/accounting services, supplies/equipment, office overhead, utilities, plan preparation assistance, indirect costs, and advertising.

For 2018, 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 #	2018 Budget	Annual Escalator
Full-Time Employee Salaries	Admin-1	\$54,469	1.5%

Program	Program #	2018 Budget	Annual Escalator
Staff Insurance	Admin-2	\$22,556	8.0%*
Staff insurance costs are pro annual increases.			
*Costs are projected to increas			
Medicare Staff insurance costs are pro	Admin-3 jected to increa	\$749 ase 8% annually	3.0% based histori
annual increases.  Worker's Compensation	Admin-4	\$621	1.0%
The District does not anticipate each year, but included a 1.0%	Worker's Comp	ensation to increa	ase significantl
OPERS	Admin-5	\$7,231	Special
The total annual budget for COPERS expenditures to full-time projected for each year of the projected for each year.	e staff salaries		
Legal Services	Admin-6	\$5,000	Flat
A flat annual budget of \$5,000 Unencumbered funds from this years on an as-needed basis.			
Audit/Accounting Services	Admin-7	\$8,233	Special
The District allocates approxim services to Athens County. A years to reflect budget for a be payroll services is projected to other year are projected to increperformed by a third-party.	dditional fundin piannual audit. remain flat; the	g is included in a The budget for a additional funds	even-numbered accounting and allocated every
Supplies/Equipment	Admin-8	\$16,149	Special
The budget for 2018 was calc 2017. Moving forward, expensaccount for inflation.			
Office Overhead	Admin-9	\$20,935	2.0%
The budget for 2018 was calc 2017. Moving forward, expens account for inflation.	ulated using the ses are project	e average expensed to increase 2	ses from 2015 % annually to
Utilities	Admin-10	\$6,420	1.0%
Utility costs have historically incis projecting a modest 1% annu			s. The Distric

Program	Program #	2018 Budget	Arinual Escalator
Plan Preparation	Admin-11	\$12,426	Special
Plan preparation costs are a Updates based on the Distrincrease 2% from each prev	ict's Plan Update s	schedule. Costs a	are projected to
Indirect Costs	Admin-12	\$2,947	2.0%
The budget for miscellane annually to account for infla		is projected to	increase 2.0%
Advertising	Admin-13	\$7,334	2.0%
The budget for 2018 was of 2017. Moving forward, expactor of country account for inflation. Adver	penses are projec	ted to increase 2	2% annually to

## Residential/Commercial Collection Programs

newspaper advertisements, or other mediums of communication.

Residential/Commercial Collection Program expenditures include drop-off recycling, HHW management, scrap tire collection, recycle day events, and school recycling collection

The following table includes the funding levels projected for each residential/commercial collection program in 2018, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2018 Budget	Annual Escalator
Drop-Off Recycling	AH-2	\$142,944	Special
flat until 2024 when the current cor			
budget for this program will increase	se 5% in 2024, the		
set to expire. During the next con- budget for this program will increas the remainder of the planning period Household Hazardous Waste (HHW) Management	se 5% in 2024, the		
budget for this program will increase the remainder of the planning period Household Hazardous Waste	se 5% in 2024, the d. AH-4	en remain fla	at throughou

Program	Program #	2018 Budget	Annual Escalator
Scrap Tire Collection	AH-5	\$4,059	2.0%*

The budget for this program is projected to increase 2.0% annually to account for inflation. In 2018, the budget was calculated by increasing the District's tire budget by 2%, which did not include the full expenditures listed in Table VIII-5 because it included expenditures from grant funding as well. The District is only projecting expenditures it can finance on its own in this Plan Update because future grant funding is not guaranteed.

\*Costs are projected to increase until 2022 and then remain flat.

Recycle Day Events	AH-7	\$13,000	2.0%*
Trees, our man, manning		T. 1-1-1-	

\*The District estimated that Recycle Day events in 2018 may cost \$13,000. Costs are projected to increase 2% annually thereafter until 2022, then remain flat.

School Recycling Collection	AH-9	\$20,000	Special

Based on the District's new service contract, the budget for this program will be flat until 2024 when the current contract and optional contract extensions are set to expire. During the next contract negotiation, the District estimates the budget for this program will increase 5% in 2024, then remain flat until 2026. The District anticipates that it may have some budgetary shortfalls late in the planning period and is reserving the right to discontinue the program in 2027 if there is not adequate funding availability. If adequate funding is available, the District will continue the program.

## Other Programs

Other programs include Residential Education and Awareness, Litter Collection, the Athens Hocking Recycling Centers Material Recovery Facility, Financial Assistance, District Administrative Assistance, Pass-Through/Grant Matches, and Transfer/Advance.

The following table includes the funding levels projected for each program in 2018, a brief description of each expense and/or an explanation of the annual escalator:

Program	Program #	2016 Budget	Annual Escalator
Residential Education and Awareness	AH-10	\$19,500	Special

This budget includes wages for a part-time education specialist. The District plans to contract with a third-party. The contract will be performance based. The budget increases in 2019 and remains flat for the remainder of the planning period.

Program	Program #	2018 Budget	Annual Escalator
Litter Collection	AH-12	\$5,000	Flat
A flat annual budget of \$5,000 Unencumbered funds from this years on an as-needed basis.			
Athens Hocking Recycling Centers Material Recovery Facility	AH-14	\$174,251	Special
2019. The table does not show the three year period is \$120,00 funds were distributed. No fureserves the right to pay a limited.	00. The differen ands will be allo	ce in funding was cated after 2019.	due to when
the three year period is \$120,0	00. The differen ands will be allo ump sum amou left over District Any deviance f	ce in funding was cated after 2019. Int for the remain owned equipment from the projected	due to when The Districtioning contract to satisfy the
the three year period is \$120,000 funds were distributed. No fureserves the right to pay a loobligations and/or negotiate on remaining contract amount.	00. The differen ands will be allo ump sum amou left over District Any deviance f	ce in funding was cated after 2019. Int for the remain owned equipment from the projected	due to where The Districtioning contract to satisfy the
the three year period is \$120,000 funds were distributed. No fureserves the right to pay a loobligations and/or negotiate on remaining contract amount. Expenditure listed above would	00. The different ands will be allow ump sum amout left over District Any deviance for occur before the AH-16	ce in funding was cated after 2019. Int for the remain owned equipment from the projected contract ends.	due to wher The Districtioning contract to satisfy the ded \$120,000
the three year period is \$120,000 funds were distributed. No fur reserves the right to pay a loobligations and/or negotiate on remaining contract amount. Expenditure listed above would financial Assistance	00. The different ands will be allow ump sum amout left over District Any deviance for occur before the AH-16	ce in funding was cated after 2019. Int for the remain owned equipment from the projected contract ends.	due to when The Distriction contract to satisfy the d \$120,000

## 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 antilittering 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

q

 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 two categories:

Preparing and monitoring the Solid Waste Management Plan

Implementing approved plan

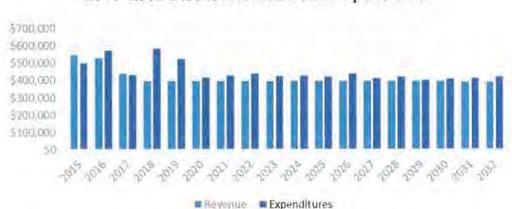
During the reference year, 96% of the District's budget was allocated to implementing the approved *Plan Update and* 4% was allocated to preparing and monitoring the *Solid Waste Management Plan*.

### D. Contingent Funding

The District, Policy Committee, and County Commissioners do not consider funding to be an issue of concern during this planning period, therefore Table VIII-7 has been omitted. The Policy Committee would consider adjusting the disposal fee and/or generation fee or develop other funding options (rates and charges, designation fees or other mechanisms) if the District's revenues and/or expenses were creating budgetary shortfalls in accordance with the guidelines in the material change of circumstances. Before any adjustments to the District's funding mechanisms would be considered, 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.

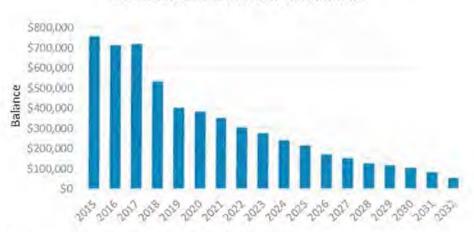
### E. Summary of Costs and Revenues

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 decrease from \$542,329 in 2015 to \$393,134 in 2032. Expenditures in 2015 were \$338,896. Throughout the planning period, expenditures are projected to average \$440,573 annually. The following figure presents the District's actual and projected revenue and expenditures from 2015 to 2032.



2015-2032 District Revenue and Expenditures

The District is projected to begin the planning period with a carryover balance of \$720,967 and conclude the planning period with a balance of approximately \$52,637. Each year of the planning period is projected to have adequate funding for each of the programs. The following figure presents the District's ending balance from 2015 to 2032.



#### 2015-2032 District Fund Balance

### F. Plan Implementation Budget Demonstration

The budget projections were prepared in good faith using the best and most current information available. The District has prepared the budget section of this *Plan Update* to meet the requirements in the Ohio Revised Code, Section 3734.53 (A)(13)(d):

The methods of financing implementation of the plan and a demonstration of the availability of financial resources for that purpose.

The budget tables prepared for this *Plan Update* demonstrates that the District has the financial funding throughout the planning period to implement the planned programs and initiatives.

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 Coordinator, will review and revise the budget as needed to implement the planned strategies, facilities, programs and/or activities as effectively as possible with the funds available.

Revenues, not otherwise committed to an existing strategy, facility, program or activity may be used to increase funding to improve the effectiveness of an existing strategy, facility, program or activity and to provide funding for a new strategy, facility, program or activity the Board concludes is justified based on the District Coordinator's recommendations and the content of this *Plan Update*.

The District reserves the right to revise the budget and reallocate funds as programs change or when otherwise determined to be in the best interest of the District.

The District is committed to implementing planned strategies, facilities, programs and/or activities in a cost-effective manner. The District is committed to improving the effectiveness and reduce the cost of all District strategies, facilities, programs and activities. The District Board is authorized to expend District funds among other uses included in the *Plan Update* when costs are reduced. Additionally, the Board is authorized to use reduced costs to provide grant funds or direct funding to evaluate, test and/or implement new strategies, facilities, programs and activities that are in compliance with this *Plan Update* are not a "material change in circumstance" regarding the implementation of this *Plan Update*.

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 Directors. The Board of Directors 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

	Fee	Schedule	(\$iten)	Tons Di	sposed in I	he District	Total
Year	In-District	Out-of- District	Out-of-State	In-District	Out-of- District	Out-of-State	District Fee
2015	\$1.00	\$2.00	\$1.00	40,718	25,298	115,867	\$207,180
2016	\$1.00	\$2.00	\$1.00	41,887	27,276	127,427	\$223,865
2017	\$1.00	\$2.00	\$1.00	39,380	28,881	130,320	\$227,462
2018	\$1.00	\$2.00	\$1.00	40,033	26,124	118,719	\$211,001
2019	\$1.00	\$2.00	\$1.00	39,969	26,124	118,719	\$210,937
2020	\$1.00	\$2.00	\$1.00	39,904	26,124	118,719	\$210,872
2021	\$1.00	\$2.00	\$1.00	39,917	26,124	118,719	\$210,885
2022	\$1.00	\$2.00	\$1.00	39,930	26,124	118,719	\$210,898
2023	\$1.00	\$2.00	\$1.00	39,942	26,124	118,719	\$210,910
2024	\$1.00	\$2.00	\$1.00	39,954	26,124	118,719	\$210,923
2025	\$1.00	\$2.00	\$1.00	39,966	26,124	118,719	\$210,934
2026	\$1.00	\$2.00	\$1.00	39,885	26,124	118,719	\$210,853
2027	\$1.00	\$2.00	\$1.00	39,804	26,124	118,719	\$210,772
2028	\$1.00	\$2.00	\$1.00	39,723	26,124	118,719	\$210,691
2029	\$1.00	\$2.00	\$1.00	39,641	26,124	118,719	\$210,609
2030	\$1.00	\$2.00	\$1.00	39,566	26,124	118,719	\$210,535
2031	\$1.00	\$2.00	\$1.00	39,427	26,124	118,719	\$210,395
2032	\$1.00	\$2.00	\$1.00	39,287	26,124	118,719	\$210,255

Source(s) of information: Quarterly Fee Reports, Table VI-4A

Table VIII-2
Generation Fee Schedule and Revenues

Year	Base Generation Fee	Tons of District Waste to be Disposed	Total Generation Fee Revenue
2015	\$3.00	61,781	\$185,342.61
2016	\$3.00	62,777	\$188,331.27
2017	\$3.00	61,076	\$183,226.86
2018	\$3.00	61,954	\$185,863.47
2019	\$3.00	61,948	\$185,844.77
2020	\$3.00	61,941	\$185,822.01
2021	\$3.00	61,961	\$185,884.21
2022	\$3.00	61,982	\$185,944.90
2023	\$3.00	62,001	\$186,004.08
2024	\$3.00	62,021	\$186,061.76
2025	\$3.00	62,039	\$186,117.94
2026	\$3.00	61,911	\$185,734.03
2027	\$3.00	61,783	\$185,350.12
2028	\$3.00	61,655	\$184,966.22
2029	\$3.00	61,527	\$184,582.31
2030	\$3.00	61,399	\$184,198.40
2031	\$3.00	61,180	\$183,538.56
2032	\$3.00	60,960	\$182,878.72

Source(s) of information: Tons to be disposed - Tables VII-2 and VII-3

**Note:** From 2015 to 2016, generation fees were collected on an average of 99.4% of the residential/commercial and industrial sector waste generated in the District. The Tons of District Waste to be Disposed column was calculated by adding landfilled tons listed in tables VII-3 and VII-4, then multiplying the tonnage by 0.994.

Table VIII-3 Summary of Revenue Generated and Mechanisms Used

	-		modification and	or Nevertile Mechanism and Amount Used	The second second	
Disposal	Generation Fees	Grants	Pass-Tirrough Grants	Reimbursements	Miscellaneous	Total Revenue Generated
\$207,180	\$185,343	\$11,196	\$127,324	0\$	\$16,623	\$547,666
\$223,865	\$188,331	\$11,522	\$0	\$17,015	\$87,505	\$528,238
\$227,462	\$183,227	\$24,270	\$0	\$0	\$5,921	\$440,879
\$211,001	\$185,863	\$0	\$0	\$0	\$0	\$396,864
\$210,937	\$185,845	\$0	\$0	\$0	\$0	\$396,781
\$210,872	\$185,822	\$0	\$0	\$0	\$0	\$396,694
\$210,885	\$185,884	\$0	\$0	\$0	\$0	\$396,769
\$210,898	\$185,945	\$0	\$0	\$0	\$0	\$396,843
\$210,910	\$186,004	\$0	\$0	\$0	\$0	\$396,914
\$210,923	\$186,062	\$0	\$0	\$0	0\$	\$396,984
\$210,934	\$186,118	\$0	\$0	\$0	\$0	\$397,052
\$210,853	\$185,734	\$0	\$0	\$0	\$0	\$396,587
\$210,772	\$185,350	\$0	\$0	\$0	\$0	\$396,122
\$210,691	\$184,966	\$0	\$0	\$0	\$0	\$395,657
\$210,609	\$184,582	\$0	\$0	\$0	\$0	\$395,192
\$210,535	\$184,198	\$0	\$0	\$0	\$0	\$394,733
\$210,395	\$183,539	\$0	\$0	\$0	\$0	\$393,933
\$210,255	\$182,879	\$0	\$0	\$0	\$0	\$393,134

Note: Other revenue in Table VIII-3 differs from Quarterly Fee Reports. Quarterly Fee Reports are calculated using cash-based accounting. The District records presented in Table VIII-3 are calculated on an accrual basis.

Source(s) of information: Quarterly Fee Reports, District records

Table VIII-4
Anticipated Loans Secured by the District

	Loans Obtaine	d by the District	Interest	Length of	Annual Deb	
Year	Lending Institution	Loan Amount	Rato	Loan	Sorvice	
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	
2026	N/A	0	N/A	0	0	
2027	N/A	0	N/A	0	0	
2028	N/A	0	N/A	0	0	
2029	N/A	0	N/A	0	0	
2030	N/A	0	N/A	0	0	
2031	N/A	0	N/A	0	0	
2032	N/A	0	N/A	0	0	

		- Andrews	****	201101	1	and of	Tables 1	Lealand	Table 1	Las Sacra	cas face	(mina	J51'895	151,842	261°895	261'995	261'995	£51'89\$	/EL'89\$
		108,2772	886,8712	696 945	1218,251	281,417	680'99\$	160'99\$	169 55\$	Z61'89\$	151,852	261,848	(S	0\$	05	200	205	05	06
risterlydonce	EVI	\$150,000	125'12\$	0\$	05	08	05	20	06	05	0\$		20	20	05	65	05	05	is
safaleti insulficenti Malches	Bln	\$15,000	le'mis	C\$	96	0\$	20	20	0\$	0\$	0\$	20		169'02\$	169'02\$	189/02\$	LES'0Z\$	£69'02\$	250'080
Indiziez Astinizinino Ashi	TI-HA	C\$	65		009'615	CBL'BIS	689,052	160'00\$	259 025	459'02\$	169'025	159'02\$	169'02\$	05	209 065	C\$ 0C\$	05	OS OS	12
sonstalea Assistance	ar-HA	0\$	.05	0\$	0\$	009,72	009'7\$	009'2\$	005 £\$	0\$	05	05	0\$	US	105	U)	10	1/2	ą.
nens Hocking Recycling Centers serial Ascovery Facility	AHHA	0\$	20	61/595	\$174.251	\$150,000	20	05	05	0\$	6\$	0\$	0\$	0\$	08	08	OS	.0\$	ts .
ser Collection	AH-12	OS:	Z81°Z\$	2157\$	000'5\$	000,22	\$2,000	000'9\$	000'9\$	22'000	\$2,000	\$2,000	000'9\$	000'9\$	\$2,000	26,000	32 000	26,000	00,28
sidential Education and Awareness	OF-HA	709,F12	711'01\$	289'9\$	009'61\$	\$22,500	\$55,500	\$55,500	\$55,500	\$35,500	\$55,500	\$22,500	009'72\$	\$22,500	222,500	\$22,500	\$22,500	255,500	\$55,50
- Parkers										Track as	- Andrews		- andread	Lawrence A	and as a	90Z'1815	APPENDA.	102'1819	02761\$
		\$175,382	\$109,516	172,661\$	925'002\$	\$201,686	\$202,460	125,052	2504052	2504,057	\$212,204	\$212,204	\$212,204	191,204	102,1012	200 1815	MOE TET 2	772 1414	
noi Recycling Collection	6HV	\$12,000	\$16,600	\$16,500	250,000	\$20,000	\$50,000	000'02\$	\$20,000	\$20,000	\$51,000	\$21,000	000'17\$	200	05	Z/00H\$	06	720°91\$	TO,ATE
cycle Day Events	THA	26,943	£16,512	1/1/95	\$13,000	\$13,260	\$13,525	397,512	210,012	STO,M8	270,418	\$10,072	S10,072	210,118	\$14,072	CTO 512	210.018	CYCO MES	20 713
odronics Recycling	3HA	A ni bobuloni	-			and the second	Teneth e	realist.	Treelin.	restra .	- india	(need) to	Lensin	LANGE	166'15	M'384	166'45	HEE'HS	6E'15
noticello) sniT qes	S-HV	57,845	ENS.68	#I'lls	690"V\$	071,02	\$4.223	70E.A2	16E'V\$	160'15	24394	HE HS	166,13	ME'VS	POE PS	POL PS	NOT NO	HOT L2	DC 1/3
(WHH) sizeW auchieseH biorlean Inemsgen	HHY	TIZZIŞ	\$22,775	250,513	\$20,923	196,158	\$21,768	<b>\$22.204</b>	\$22,648	819'72\$	\$22,648	\$22,648	859723	899,52\$	899,552	819725	\$22.648	875,548	\$22,64
Sylloycaff Recycling	SHA	\$130,316	\$21,2412	MEZH\$	#6'ZP1\$	116,2112	\$145.044	PHE SHIS	116 CHS	PHO CHIS	160 051\$	160'091\$	160'091\$	160'051\$	160'051\$	\$120,021	150'051\$	160,0312	60'091\$
	(Addition										Las basta	(et alless et	Linkson	analess 6	as aleas a	nestan k	men in cod	859'971\$	\$1\$3,90
		\$10,2078	\$104,454	\$126,383	170,2812	181,0218	825,081\$	069,6918	\$182,313	301,2712	181/891\$	\$18,5912	TIS, IST	890,871\$	005,2812	\$163,095	854,0778	27,938	C6'/5
Bujsijan	Et-mirthA	195,1\$	\$5,382	100 6\$	102,78	084,72	069,7\$	287,7\$	\$2,838	805'2\$	805'2\$	858,72	805'15	808'2\$	806,72	\$2,938	BC6'7\$	-	E1,52
alact Costs	St-nimbA	\$13,492	E12,42	\$5,890	116,52	300,62	\$3,066	\$3,128	53,190	061,52	53,190	23,190	621,62	051,52	061,52	061,52	\$3,190	53,190	E1, E18 E1 52 10
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sagivas jed	3-cimbA	\$12,593	886,22	23,545	000'9\$	000,5\$	000/9\$	\$2,000	\$2,000	86,000	26,000	22,000	\$5,000	25,000	000/5\$	000'9\$	\$2,000	000,88	26,00
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acreward in	S-nimbA	854,812	850 649	\$20,885	995,558	254,360	\$26,368	\$1\$'8Z\$	788,052	789,062	189'08\$	788,052	189,05\$	189,05\$	789,002	788,062	788,052	The state of the s	-
Pime Employee Salaries	1-minbA	101 755	691 79\$	\$23,664	699 99\$	\$25,286	\$11,35\$	196'99\$	118,122	118,728	118,722	118,722	118,72\$	118,72\$	118,782	118,722	118,728	118,782	118,728

Table VIII-6
Revenues and Allocations in Accordance with ORC 3734.57, ORC 3734.572 and ORC 3734.573

		Allocations	e/ ORC 575	37 10	W DRC	37al.	175 File	venue	For the	e Follo	owing	Bullpomit	
inor	Total Annual Revanue	1	*	1	4			7		•		Tehri Budget Allifeather	Year-End Salance
e glomili	ng Balance												\$707,513
2015	\$547,666	\$20,113	\$477,953	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$498,066	\$757,112
2016	\$528,238	\$11,197	\$561,160	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$572,357	\$712,994
2017	\$440,879	\$12,877	\$420,029	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$432,906	\$720,967
2018	\$396,864	\$12,426	\$571,821	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$584,248	\$533,583
2019	\$396,781	\$0	\$526,660	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$526,660	\$403,705
2020	\$396,694	\$0	\$418,078	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$418,078	\$382,321
2021	\$396,769	\$11,421	\$416,911	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$428,332	\$350,759
2022	\$396,843	\$13,135	\$428,932	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$442,067	\$305,535
2023	\$396,914	\$12,426	\$414,933	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$427,359	\$275,090
2024	\$396,984	\$0	\$429,885	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$429,885	\$242,189
2025	\$397,052	\$0	\$423,216	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$423,216	\$216,025
2026	\$396,587	\$11,421	\$430,197	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$441,617	\$170,995
2027	\$396,122	\$13,135	\$402,354	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$415,489	\$151,628
2028	\$395,657	\$12,426	\$409,515	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$421,941	\$125,344
2029	\$395,192	\$0	\$402,495	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$402,495	\$118,041
2030	\$394,733	\$0	\$409,839	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$409,839	\$102,935
2031	\$393,933	\$11,421	\$402,639	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$414,060	\$82,808
2032	\$393,134	\$13,135	\$410,170	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$423,304	\$52,637

#### Notes:

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

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or other	and Orca					\$210,853	409,0152	\$210,923	\$210,910	868,0152	288,0152	218,0152	706 015\$	100'112\$	599,1552	538,022\$	091,7052		seed Fees
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### IX. District Rules [ORC Section 3734.53(C)]

### A. Existing Rules

The Athens-Hocking Solid Waste District has not adopted rules.

### B. Proposed Rules

At this time, the Athens-Hocking Solid Waste District does not plan to adopt rules. Since changes may occur during the planning period, the District reserves for the Board of Directors the power to make and enforce rules to the fullest extent authorized by Ohio law.

The Ohio Revised Code, Section 343.01 (G) gives solid waste districts the authority to adopt, publish, and enforce rules to the extent authorized by the solid waste management plan of the district approved under section 3734.521 or 3734.55 of the Revised Code or subsequent amended plans of the district approved under section 3734.521 or 3734.56 of the Revised Code.

This Plan authorizes the Athens-Hocking Solid Waste District Board of Directors to adopt, publish, and enforce rules doing any of the following:

- Prohibiting or limiting the receipt of solid waste generated outside the district or outside a service area proscribed in the solid waste management plan or amended plan, at facilities covered by the plan.
- Governing the maintenance, protection, and use of solid waste collection or other solid waste facilities located within the district.
- Governing the development and implementation of a program for the inspection of solid waste generated outside the boundaries of this state that are disposed of at solid waste facilities included in the district's solid waste management plan or amended plan.
- Exempting the owner or operator of any existing or proposed solid waste facility provided for the plan or amended plan from compliance with any amendments to a township zoning resolution.

After this updated Plan has been approved by the Director of the Ohio Environmental Protection Agency, Athens-Hocking Solid Waste District may, as the District deems appropriate, adopt any rules that are necessary to implement the ratified and approved Solid Waste Management Plan.

### C. Procedures

The District Board of Directors shall use the following procedures for the adoption or amendment of rules.

- The Board shall seek the advice and expertise of the Policy Committee and District staff in the preparation of proposed new or amended rules.
- Upon completion of proposed new or amended rules, the Board will mail copies of the
- proposed rules to each Board of County Commissioners, Policy Committee member, and Health Department and invite written comments within a stated period of time. The proposed rules may be mailed to other interested parties.
- 4. The Board will provide public notice of the availability of the proposed rules for review in the newspaper of greatest circulation in each county. The notice will include the date by which written comments on the proposed rules must be received and the dates, times and location of public hearings on the proposed rules. The public comment period on the proposed rules will extend at least 30 days from the date of public notice.
- The Board will provide at least one public hearing on the proposed rules. Additional hearings may be held if deemed necessary by the Board. District staff will preside at the public hearings.
- 6. After the hearing(s) and public comment, the Board may revise and reissue the proposed rules, or proceed to take final action on the proposed rules. If the Board reissues revised proposed rules, the Board will provide another public hearing. The Board may make such changes in the proposed rules as it deems appropriate in taking final action to adopt or amend rules.
- The Board will adopt or amend rules at a regular meeting or a special meeting designed for rules revision. Rules will be adopted or amended by resolution approved by a majority of the quorum of the Board.
- 8. A copy of the adopted or amended rules will be mailed to each Board of Commissioners, each Policy Committee member, and each Health Department. The rule may be mailed to interested parties that have been identified during the comment and public hearing period. The Board may, but is not required, to follow the above procedures when rescinding rules.

# APPENDIX A RESOLUTION FOR DISTRICT FORMATION

### AGREEMENT ESTABLISHING ATHENS - HOCKING JOINT SOLID WASTE MANAGEMENT DISTRICT

THIS AGREEMENT is made and entered into this 15 day of June , 1993, by and between the Counties of Athens and Hocking, each being a political subdivision organized and existing under the laws of the State of Ohio (respectively, Athens and Hocking), under the circumstances summarized in the following recitals:

- A. Am. Sub. H.B. 592 (the Bill), enacted by the 117th General Assembly of the State of Ohio (the State) and effective June 24, 1988, requires that the board of county commissioners of each county within the State establish and maintain its own "county solid waste management district" or, with the boards of county commissioners of one or more other counties, establish by agreement and maintain a "joint solid waste management district" pursuant to Section 343.01 of the Revised Code, as amended by the Bill, for the purposes of solid waste management planning and providing for, or causing to be provided for, the safe and sanitary management of solid wastes (as defined in Section 3734.01 of the Revised Code, as amended by the Bill) within all of the incorporated and unincorporated territory of the county or joint district, and H.B. 723 effective April 15, 1993:
- B. Each of the Boards of County Commissioners (the County Boards) of the Counties has determined that coordinated action by the Counties for the purposes of preparing, adopting, submitting and implementing a solid waste management plan for the Counties and providing for, or causing to be provided for, the safe and sanitary management of solid wastes within the Counties is necessary to preserve and promote the public health and welfare of the residents of its particular County and will be of common benefit;
- C. Each County Board has determined that, for those purposes and subject to the provisions of the Bill, including uncodified Section 8 thereof, it is necessary and appropriate to enter into this Agreement providing for the establishment of a joint solid waste management district.

NOW THEREFORE, in consideration of the premises and the mutual agreements hereinafter contained, the Counties agree as follows:

### Section 1. <u>Definitions</u>.

1.01. "Agreement" means this Agreement, as it may be amended or supplemented from time to time.

### APPENDIX B

# PUBLIC NOTICES FOR PUBLIC HEARING AND PUBLIC COMMENT

### PUBLIC NOTICE ATHENS-HOCKING COUNTY SOLID WASTE DISTRICT

### Public Comment Period for Draft Solid Waste Management Plan Update

The Athens-Hocking County Solid Waste District (District) is establishing a 30-day written comment period (February 26, 2018 – March 27, 2018) 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, facilities and programs to be used, an analysis of the progress made toward achieving state solid waste reduction goals, and District rules.

This draft is an update to a previously approved solid waste plan. This Plan Update details existing programs including but not limited to: Curbside Recycling, Drop-Off Recycling, Yard Waste Management, Household Hazardous Waste (HHW) Management, Scrap Tire Collection, Electronics Recycling, Recycle Day Events, Commercial Cardboard Collection, School Recycling, Education and Awareness, Litter Collection.

The draft Plan Update includes a demonstration of access to landfill capacity and determines there are more than fifteen years of landfill capacity available to the District. Based on the landfills used to manage waste generated in the District during the 2015 reference year for the planning period, landfills had an average life expectancy of more than 38 years.

Under this Plan, the Board of Directors is authorized to designate facilities in accordance with Section 343.014 and 343.015 of the Ohio Revised Code. The District is not designating any facilities in this Plan Update.

The draft Plan Update includes District rules. The District has not adopted rules and is not proposing new rules but reserves for the Board of Directors the power to make and enforce rules.

The draft Plan Update complies with State Plan Goal #1: Providing Access to Waste Reduction Opportunities. The District will continue to provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

The District primarily funds Plan programs and current operations through disposal fees and generation fees. The District is not proposing any fee increases in this Plan Update.

The District will hold two public hearings to obtain oral comments regarding the draft Plan Update. The hearing locations and schedules are as follows:

Athens County: Monday, 4/2/2018 at 7:00PM

Location: Athens Public Library, 30 Home St., Athens, OH 45701

Hocking County: Tuesday, 4/3/2018 at 7:00PM

Location: Logan-Hocking Public Library, 230 E. Main St., Logan, OH 43138

The District will accept written comments as required by Ohio Revised Code Section 3734.55 on the draft Plan Update from February 26, 2018 until March 27, 2018. Written comments should be sent to Mr. Roger Bail, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.

The draft Plan Update is available for review on the District's website at http://ahswd.org/, and at the following locations during normal business hours:

- Athens-Hocking Solid Waste District Office: 1121 Chestnut Street, Nelsonville, Ohio 45764
- Athens County Commissioners Office: 15 S Court St, Athens, OH 45701
- Hocking County Commissioners Office: 1 East Main St., Logan, OH 43138

Please contact the District at 740-753-6885 with any questions about the Plan Update.

### Public Hearing Notice

The Athens-Hocking County Solid Waste District (District) District will hold two public hearings to obtain oral comments regarding the draft Plan Update. The hearing locations and schedules are as follows:

Athens County: Monday, 4/2/2018 at 7:00PM

Location: Athens Public Library, 30 Home St., Athens, OH 45701

Hocking County: Tuesday, 4/3/2018 at 7:00PM

Location: Logan-Hocking Public Library, 230 E. Main St., Logan, OH 43138

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, facilities and programs to be used, an analysis of the progress made toward achieving state solid waste reduction goals, and District rules.

This draft is an update to a previously approved solid waste plan. This Plan Update details existing programs including but not limited to: Curbside Recycling, Drop-Off Recycling, Yard Waste Management, Household Hazardous Waste (HHW) Management, Scrap Tire Collection, Electronics Recycling, Recycle Day Events, Commercial Cardboard Collection, School Recycling, Education and Awareness, Litter Collection.

The draft Plan Update includes a demonstration of access to landfill capacity and determines there are more than fifteen years of landfill capacity available to the District. Based on the landfills used to manage waste generated in the District during the 2015 reference year for the planning period, landfills had an average life expectancy of more than 38 years.

Under this Plan, the Board of Directors is authorized to designate facilities in accordance with Section 343.014 and 343.015 of the Ohio Revised Code. The District is not designating any facilities in this Plan Update.

The draft Plan Update includes District rules. The District has not adopted rules and is not proposing new rules but reserves for the Board of Directors the power to make and enforce rules.

The draft Plan Update complies with State Plan Goal #1: Providing Access to Waste Reduction Opportunities. The District will continue to provide access to recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

The District primarily funds Plan programs and current operations through disposal fees and generation fees. The District is not proposing any fee increases in this Plan Update.

The draft Plan Update is available for review on the District's website at http://ahswd.org/, and at the following locations during normal business hours:

- Athens-Hocking Solid Waste District Office: 1121 Chestnut Street, Nelsonville, Ohio 45764
- Athens County Commissioners Office: 15 S Court St, Athens, OH 45701
- Hocking County Commissioners Office: 1 East Main St., Logan, OH 43138

Please contact the District at 740-753-6885 with any questions about the Plan Update.

# DAILY NEWS

Affidavit of Publication The State of Ohio Hocking County

ATHENS-HOCKING SOLID WASTE DISTRICT ROGER BAIL P.O. BOX 693 ATHENS, OH 45701

Account:

Ticket:

477108

RE:

Draft Solid Waste Mgm Plan

Before, the undersigned, a Notary Public of said County and State, duly commissioned, qualified, and authorized by law to administer oaths, personally appeared Lucille Burcham, Who being first duly sworn, deposes and says: that she is the Agent of The Logan Daily News, published, issued and entered as second class mail in the city of Logan: that she is authorized to make this affidavit and sworn statement; that the notice or other legal advertisement, a true copy of which is shown here to, was published in The Logan Daily News on the following date(s): 02/28/18

Signature of sworn person above

Sworn to and subscribed before me this 02/28/2018.

Signature of Notary Public

Cost of Notice: Published on:

\$213.80 02/28/2018

The Logan Daily News 72 E. Main St. P.O. Box 758 Logan, OH 43138

PHILLIP N. LIGHTFOOT Notary Public, State of Ohio My Commission Expires June 25, 20 19 Recorded in Hocking County

FED ID 61-1731416

#### PUBLIC NOTICE ATHENS-HOCKING COUNTY

FOLID WASTE DISTRICT

Public Comment Period for Deaft Solid Waste Management Plus Update Breaft Natio Haste Management Plan Updati
The Athean-Hasching County Solid Wass District
(District) is establishing a 20-day written comment pa-riced (February 26, 2018 - March 27, 2018) on the draft
Solid Waste Management Plan Update (Plan Update)
(Dhis Revised Code Section 1734-3-4) The Histrict has prepared the draft Plan Update as required by Section 3734-3-7 at the Ottlo Revised Code. The draft Plan Update includes a budger and fees to finance the Pan, a selid waste facility (invanter), projections and stran-gies, facilities and grograms to be used, an analysis of the progress made toward schiering take adid waste. reduction goals, and Destrict rules

reduction goals, and Hostric rules.

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The draft Plets Epidate includes a demonstration of ac-

cess to landfill superity and determines there are more than fifteen years of landfill capacity available to the than officer years of fundific apacity available to the Bissiet Based on the fandfills used to manker source quierrated to the District during the 2015 reference year for the planning period, fundfills had an average life ev-pectatory of more than 38 years. Under this Plan, the Buard of Directors or authorized to designate facilities in accordance with Section 343 411 and 343,015 of the Diro Revised Code. The Dis-trict to an decomposition of cellifies in this Plan Under

trictle non designating any facilities in this Plan Update. The draft Plan Update includes District rates. The District has not adopted rules and is not propoung sew rules but reserves for the Board of threatons the power to roake and enfocce rules

The draft Plan Update compiles with State Plan Goal

1 Providing Access to Waste Reduction Opportunities. The District will continue to provide access to
recycling and waste minimization opportunities for municipal solid waste to its residents and businesses.

The District primarily funds Plan programs and cur-rent operations through dispend free and grantation fees. The District is not proposing any fee incremes in

the Blan Update

The District will held two public hearings to obtain
oral comments regarding the draft Plan Update. The
hearing focusions and schedules are as follows:

Athens County: Monday, 42/2018 at 7 00 PAI Location Athens Public Library, 30 Home St., Attmt. ON 45701

Mocking County: Inviday, 4.3 2018 at 7.00 PM

Location Legan-Hocking Public Library 210 in Nain St. Logan, OH 45138 The Dietrics will accept written comments as propored by Uhio Revised Code Section 1731-55 po the draft Print Update from February 26, 2018 antil March 27, 2018 Written comments allowlo be sent to Mr. Reger Unit, Alberta-Homerins allowlo be sent to Mr. Reger Unit, Alberta-Homerins, allowlo Bristics, P.O. There 693, Alberta, Obio-45701

The draft Plan Update is available for traines on the District's website at long habout engl, and at the follow-ing formions during not not longuage from Automotive from many longuage from Automotive from the follow-trum Street, Nelsonville, Dain 45764

\* Athens County Commissioners Office | 5 5 Fines St, Athens, OR 45761

Horling County Commissioners Office | Land

Please contact the Dutrier at Mil-251-0835 with any questions about the Plan Update Logic Bale + TVR





## THE LOGAN

Affidavit of Publication The State of Ohio Hocking County

ATHENS-HOCKING SOLID WASTE DISTRICT ROGER BAIL P.O. BOX 693 ATHENS, OH 45701

Account:

Ticket:

480337

RE:

Draft Solid Waste Mgm Plan

Before, the undersigned, a Notary Public of said County and State, duly commissioned, qualified, and authorized by law to administer oaths, personally appeared Lucille Burcham, Who being first duly sworn, deposes and says; that she is the Agent of The Logan Daily News, published, issued and entered as second class mail in the city of Logan; that she is authorized to make this affidavit and sworn statement: that the notice or other legal advertisement, a true copy of which is shown here to, was published in The Logan Daily News on the following date(s): 03/16/18

Signature of sworn person above

Sworn to and subscribed before me this 03/16/2018.

Signature of Notary Public

Cost of Notice: Published on:

\$213.80 03/16/2018



PHILLIP N. LIGHTFOOT Notary Public, State of Ohio My Commission Expires June 25, 2019 Recorded in Hocking County

The Logan Daily News 72 E. Main St. P.O. Box 758 Logan, OH 43138

FED ID 61-1731416

PUBLIC NOTICE ATHENS-HOCKING COUNTY SOLID WASTE DISTRICT Public Comments Period for Deaft Solid Waste Management Plan Update

Extension of Fine
The Attennal focking County Solid Waste Dismit The Attornationking County Solid Waster Desmit [District) is establishing a 30-day written common period (February 26, 2013 – Agril 1, 2018) on the draft Solid Waster Management Plan Update (Plan Update) is Agril (Plan Update) is Agril (Plan Update) (Pla

date includes a budget and fees to finance the Plan, a solid waste facility inventory, projections and attategies facilities and programs to be used an analysis of the progress made inward actine may be as a facilities of the progress made inward actine may take while waste reduction goals, and District rules.

This draft is an update to a previously approved solid waste plan. This Plan Update details enviring programs including but not limited to Curodide Recycling, Dimposition of Recycling, Vard. Waste Management, Estage Siller Collection, Hestmands Recycling, Recycle Day Estage Collection, Hestmands Recycling, Recycle Day Estage Commercial Caraboard Collection, School Recycling, Education and Awareness, Linter Collection of access to landfill capacity and determines these are more than filteen years of landfill capacity available to the District Hased on the Indiffile used to manage waste generated in the District during the 2015 reference year.

generated in the District during the 2015 reference year for the planning period, landfills had no pressure ble periods, of more than 78 years.

Yinder this Plan, the Board of Direction is sufferinged to designate facilities in accordance with Section 141 014 and 143 015 of the Ohio Revised Code. The District)s not designating any facilities in this Plan Update. The draft Plan Update includes District rules. The

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to make mid entoice times. The draft Plant Coal at Providing Access to Waste Reduction Opportunities. The Dutario will ecclude to provide access to technical and provide access to the Dutario will ecclude to provide access to technical and waste unmunical an application for mumapal solid want to its residents and himmeness

The Draftice primarily funds Fran programs and cur-rent operations through disposal fees and senemina fees. The District is not proposing any fee increases in this Plan Update
The District will hold two public hearings to about

oral comments regarding the draft Plan Capital. Ho-bianing locations and schedules are as follows. Athens County: Monday, 4222018 at 7.00 Pet. Location, Athens Public Library, 3d Home 20. Ath-ens, OH 18701.

Hocking County, Legiday, 4 (2008 at 100 PM) Location Togan-Hocking Public Library, 210 J. Man St. Logan, OH 48151

State St. Logar, OH 44174.
The Dathret will steeped relaten to immedia in required by Ohio Beyred Code Section 4714.55 — illustrated from Pebruary 20, 2018 man April 2018. Watten commercia shauld be tent in Mr. Rougel Bail, Alberts-Hecking Solid Waste Dathret, P.O. Ber. 603. Athens, Ohio 4570.

691, Athens Ohio 45701 (60) Attens, Onio 65 Or. The dust Plan Update is available for review on the District's website atting subsidiors, and at the following leadings during normal human subsidiors: Administration of Most Parks West Parks (Huma (Hum) Clusteral Street, Nelson allo, Ohio 45764).

- \* Affunt County Commissioners Office. 15 S. Court St. Athens, OH 15701

Pigary contact the District at 710-71 Level 5-06 any questions about the Plan Update Logarithm 40000

### The Athens Messenger

Affidavit of Publication The State of Ohio Athens County SS

ATHENS-HOCKING SOLID WASTE DISTRICT ROGER BAIL P.O. BOX 693 ATTIENS, OH 45701

Account: Ticket:

807261

RE:

AHSWL) Plan Update

Hefore, the undersigned, a Notary Public of said County and State, duly commissioned, qualified, and authorized by law to administer oaths, personally appeared Tom Leake, Who being first duly sworn, deposes and says: that he is the Agent of The Athens Messenger, published, issued and entered as second class mail in the city of Athens: that he is authorized to make this affidavit and sworn statement: that the notice or other legal advertisement, a true copy of which is shown here to, was published in The Athens Messenger on the following date(s): 03/01/18

Signature of sworn person above

Sworn to and subscribed before methis 03/01/2018.

Signature of Notary Public

Cost of Notice Published on2

The Athens Messenge 9300 Johnson Rd. P.O. Bux 4210 Athens, OH 43701 \* 4

CHANALPOWELL NOTARY PUBLIC STATE OF OHIO COMM EXPIRES MOVEMBER 25, 2071

FED ID 61-1731416

LEGAL NOTICE FUELIC NOTICE ATHENSHOCKING COUNTY SOLID WASTE DISTRICT
Public Comment Period for Braft Solid Waste
Management Plan I pdate

The Athens-Hocking Courty Solid Waite Diamei (Diamei) areatablishing a 30-day written comment period (February 26, 2018 -March 27, 2018) on the draft Solid Wasse Management Plan Update (Plan Update) (Onto Revised Code Section 3734 54). The District has prepared the draft Plan Update as required by Section 1774. It of the Ohio Revised Code. The draft Plan Update includes a budget and fees to finance the Plan, a solid is sate facility inventors, physicallic productions of the Plan.

and fees to finance the Plan, a solid waste facility in cuttory, pryections and strategies, facilities and programs to be used, as analyzin of the program made toward achieving rate within waste fedulating solls, and District rules.

This draft is as update to a previously approved solid waste plan. This Plan Update details existing programs including but not limited to Curbaide Recycling, Dropo-Off Recycling, Yard Warse Management, Household Heart-down Wise Offlowy Management, Sarap Tote Collection, Electronics Recycling, Recycling, Polyadate And Avertical, Later Collection, School Recycling, Polyadate and Averticals, Later Collection. and Awareness, Lotter Collection

and Augments, Later Collection.

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The District will held two public hearing to obtain one occurrent regarding the draft Plan Update. The hearing locations and autosticles are a follows:

ofer the Extension Adherency -CAZOUS at 7 (1974)
Location, Atherin Public Library, 50 (Lone St. Atherin CH 1570)
Bocking County Tuesday, 40 (2018) at 7 (1974)
Location Logan-Hacking Public Library, 200 F. Mart St. Layer
OH 47138

Officials

The Datast will except written comments as required in 1th a Restand Code Section 3734 55 on the death Plan Update from Februmy 26, 2018 axial March 27, 2018 Winten controlling should be
sent to Mr. Roger Basi, Athers-Hocking Solid Water Dourn! PU

Boy 603, Attende, Otico 43701 The dealt Mon Update in an allable for review on the Duttick is reco-use at http://skand.org/, and at the following locations illuming secmil business bours

• Athens-Hocking Solid Waite Dompt Office

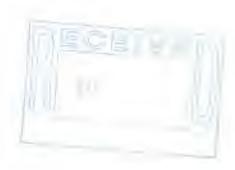
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- Americk Courty Communication of the 15 S Class St. Aftern, Cl. 145707

   Hocking Courty Communication of The 1

   Head Man St., Logan, OH 31118

  Please contact the Durnet at 742-751-8859 with any apparature about the Plan Update



### The Athens Messenger

Affidavit of Publication The State of Ohio Athens County \$5

ATHENS-HOCKING SOLID WASTE DISTRICT ROGER BAIL P.O. BOX 693 ATHENS, OH 45701

Account:

807261

Ticket

480212

RE:

AHSWD Plan Update, revised

Before, the undersigned, a Notary Public of said County and State, duly commissioned, qualified, and authorized by law to administer oaths, personally appeared Tom Leake, Who being first duly sworn, deposes and says: that he is the Agent of The Athens Messenger, published, issued and entered as second class mail in the city of Athens: that he is authorized to make this affidavit and sworn statement; that the notice or other legal advertisement, a true copy of which is shown here to, was published in The Athens Messenger on the following date(s): 03/18/18

Signature of sworn person above

Swern to and subscribed before me this 03/18/2018

Signature of Notary Public

Cost of Notice: Published on:

\$162.50 03/18/20

The Athens Messenger 9300 Johnson Rd. P.O. Box 4210 Athens, OH 45701

FED ID 61-1731416

CHANA L PUWELL NOTARY PUBLIC STATE OF OHIO SOMME EXPIRES SCHENNEN PS 2020

LEGAL NOTICE SOLID WASTE DISTRICT Public Comment Period for Draft Solid Waste Management Plan Cpdate Latension of Tone

The Athens-Hocking Courty Solid Waste Distinct (District) is establishing a Wolds winter present period (Petruszy 10, 2018-Apol 1, 2019) on the drief Solid Waste Management Plan Update (Plan Update) (Olive Revised Code Sociator 1745-54). The District has proposed the article limit police as regarded to Sociator 1744 to offue Coar Revised Code. The graft Plan Update inclinate adolgent of the control Code. The graft Plan Update inclinate adolgent and from 10 female in Plan a good waste facility in containing protection and interest of model in the social of the proposed which were also because in the state of the proposed which were a proposed with a finite part policy in a 12-bit of the company of the proposed which were part of the finite of the policy proposed with desired part proposed with which plan a finite plane declare a system programme and others to be one.

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The draft Plan Update includes a demonstration of my use to building expectly and designation than are more than fifthern years of familifill expects as salable to the District Hazed on the Tandfills into I to manage waste governed as the District during the 2015 reference year for the planning period, landfille had an energy life expecta-cy of move than 14 years.

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Under this Plan the Board of Directors is authorized to designate facilities or according to with Section 343-018 and 142-018 of the Ohio Revised Code. The Diantal is not designately any facilities.

a this Plan Update. The winth Plan Update and when District rules. The District is adopted their seed in the proposing also price but started for the faint of Directors the power to make that reference takes The shift flow (Julius pumplus as the Marchine Gold of Freedom, Account to March Robation Opportunities The Domini will interpre-

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regarding the deaft Plan Update. The bearing locations and most-

alex are as tollows. Athens Court: Monday, 6/22018 at 2 0 494

Location Athens Public Library 30 Home St., Alberts G(1.4370) Hooling Fourty Translate 1/3/2016 at 7 10/241 Location Located Society Public Library 270 S. Main St. Social

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### 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 Athens/Hocking Joint 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 District 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 fifteen 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.

### Athens County

Representation	Signature for Yes Vote	Signature for No Vote
County Commissioner	Dry Elin	
Largest City		
Health District	RAC	
Townships	Tool of Line	
Industry	Joshmally	
General Interest of Citizens	Charles Baire	*
Public	house & Ba	
Total Votes		

Motion was made by Doug Fisher, to approve and sign the Certification Statement of the Athens-Hocking Solid Waste District DRAFT Plan on 4/19/2017, seconded by William Kaeppner. Motion passed 13-0

### **Hocking County**

Representation	Signature for Yes Vote	Signature for No Vote
County Commissioner	Vill D	
Largest City	Kein Effermen	
Health District	Doglas D Sioks	
Townships	0	)
Industry	jin Kulder	
General Interest of Citizens	With alley	
Public	.//	
Total Votes		

### At Large

Representation	Signature for Yes Vote	Signature for No Vote
At Large	Deutoton	

### Total

Representation	Signature for Yes Vote	Signature for No Vote
Total Votes	13	0

Date: April 19th 2017 Burn Bul, Museum

### Resolution Adopting the Solid Waste Management Plan

#### Resolution # 2018-01

A RESOLUTION DECLARING THAT THE AMENDED SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING JOINT SOLID WASTE MANAGEMENT DISTRICT HAS BEEN ADOPTED.

Whereas, the Athens-Hocking Joint Solid Waste Management District (District") completed the draft amended Solid Waste Management Plan ("Plan") and submitted it to the Ohio Environmental Protection Agency for review and comment on June 12, 2017 and the Ohio Environmental Protection Agency provided comments in a non-binding advisory opinion on July 28, 2017.

Whereas, the District's Policy Committee has reviewed the non-binding advisory opinion received from the Ohio Environmental Protection Agency and taken these comments into consideration and incorporated changes into the amended Plan as appropriate;

Whereas the District has conducted a 33-day comment period from February 26, 2018 to April 1, 2018 and a public hearing was held on April 2 and April 3, 2018 to provide the public an opportunity to have comment on the Plan;

### NOW, THEREFORE, BE IT RESOLVED that the District Policy Committee:

- Adopts the amended Plan as the District Plan in the form: with changes made on April 11, 2018.
- Certifies that, to the best of its 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 fifteen-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.
- Directs that copies of the adopted Plan be delivered to the Board of County Commissioner's and to the legislative authority of each municipal corporation and township under the jurisdiction of the District for ratification.

This resolution shall be in effect immediately upon its adoption

	Athens County	
Representation	Signature for Yes Vote	Signature for No Vote
County Commissioner (Lenny Eliason)	Leng Elin	
Largest City (Steve Patterson)	3A)	
Health District (Jack Pepper)		
Townships (Ted Linscott)		
Industry (Steve Woods)	Stoppen D. Wood	
General Interest of Citizens (Charles Barga)	Charles Barga	
Public (Nancy Bain)	havy Bain	
Total Votes	5	

Hocking County		
Representation	Signature for Yes	Vote Signature for No Vote
County Commissioner (Jeff Dickerson)	Jul D	
Cree (Kerin Farmer)	Bu Famp	lt
Health District (Doug Fisher)	Marylas & F.	Esh
Townships (Sam Eggleston)	0	
Industry (Jim Raeder)		
General Interest of Citizens (William Kaeppner)	Will Akar	1/-
Public (Keith Farmer)		
Total Votes		

At-Large Member		
Representation	Signature for Yes Vote	Signature for No Vote
At-Large (John Kotowski)	Du Bin	
Total Votes	3	

	1	Cn.	
Policy Committee Chair Signature:	deny	len	_
Date: 4/11/18			

### Resolution Certifying Ratification of the Solid Waste Management Plan

#### Resolution No. 2018-02

A resolution declaring that the amended solid waste management plan for the Athens-Hocking Joint Solid Waste Management District (District) has been ratified in accordance with Section 3734.55 of the Ohio Revised Code.

Whereas, the District held a 30-day comment period from February 26, 2018 – April 1, 2018 and two public hearings on April 2 and 4, 2018, and the Solid Waste Management District Policy Committee adopted the amended solid waste management plan on April 11, 2018.

Whereas, this Solid Waste Management District Policy Committee has received copies of resolutions and ordinances approving the amended solid waste management plan from the Board of County Commissioners in each county, the legislative body of the largest municipality in the District in each county and from legislative jurisdictions representing at least 60 percent of the population of the District in each county.

NOW THEREFORE BE IT RESOLVED that the Solid Waste Management Policy Committee of the District declares the amended Plan for the District to be ratified in accordance with Section 3734.55 of the Ohio Revised Code, and shall cause the ratified solid waste management plan to be submitted to the Director of the Ohio Environmental Protection Agency for their final review.

This resolution shall be in effect immediately upon its adoption.

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 August 22, 2018 and recorded in the Journal of said Policy Committee.

Date: 8 22 18

Policy Committee Chairman

Total Yes Votes:

10

Total No Votes:

D

Athens County		
Representation	Signature for Yes Vote	Signature for No Vots
County Commissioner	Long Elion	
Largest City	Ron Lucas. In	
Health District	Eval MAN	
Townships	They are	
Industry	Stephen D. Wood	
General Interest of Citizens	Stoppen D. Wood Charles Barga	
Public		
Total Votes	5	

Hocking County		
Representation	Signature for Yes Vote	Signature for No Vote
County Commissioner	Nell D	
Largest City		
Health District	Joann Montgomery	
Townships		
Industry		
General Interest of Citizens	William 12. KAR PRIVER	
Public		
Total Votes		

	At Large		
Representation	Signature for Yes Vote	Signature for No Vote	
At Large	SIMPOTOWSKI		
Total Votes	5		

Community	Population	Approve	Disapprove
Albany village	891	891	
Alexander township	2,793	2,793	
Ames township	1,037	1,037	
Amesville village	157	157	
Athens city*	25,341	25,341	
Athens township	6,930	6,930	
Bern township	568	568	
Butchel village	553		
Canaan township	1,384	1,384	
Carthage township	1,514		
Chauncey village	1,036		1,036
Coolville village	492		
Dover township	2,575	2,575	
Glouster village	1,793		
Jacksonville village	482		
Lee township	1,904	1,904	
Lodi township	1,430	1,430	
Nelsonville city	5,299	5,299	
Rome township	1,315	1,315	
Trimble township	1,808	1,808	
Trimble village	395		
Troy township	2,107	2,107	
Waterloo township	2,573	2,573	
York township	1,824	1,824	
Athens County Commissioners		1	
Total County Population Estimate		66,201	
60% Approval Needed		39,721	
Total Population Approved		59,936	
Percent Approved		91%	

<sup>\*</sup>In addition to obtaining 60% approval, the largest city in the District (City of Athens) must approve the Plan to achieve ratification.

Community	Population	Approve	Disapprove
Benton township	786	786	
Falls township	5,102	5,102	
Good Hope township	1,356	1,356	
Green township	2,559	2,559	
Laurel township	1,144	1,144	
Laurelville village	510		
Logan city*	7,085	7,085	
Marion township	2,402	2,402	
Murray City village	438	438	
Perry township	1,981	1,981	
Salt Creek township	1,174		
Starr township	1,514	1,514	
Ward township	1,021	1,021	
Washington township	1,253		
Hocking County Commissioners		1	
Total County Population Estimate	28,325		
60% Approval Needed		16,995	
Total Population Approved		25,388	
Percent Approved		90%	

### RESOLUTION NO. 39, 2018 CITY OF LOGAN, OHIO

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRICT.

WHEREAS, the City of Logan in Hocking County is located within the Athens-Hocking Solid Waste District.

WHEREAS, the Athens-Hocking Solid Waste 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 City of Logan 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 LOGAN, HOCKING COUNTY, STATE OF OHIO:

SECTION 1: That the council of the City of Logan either:

a approves the Distric	n Solid Waste Management Plan, or
bdisapproves the Dis	trict Solid Waste Management Plan.
SECTION 2: The Clerk is he resolution via mail to the attention Hocking Solid Waste District, P.O. Bo	ereby directed to send the District a copy of this of Mr. Roger Bail, District Coordinator, Athensox 693, Athens, Ohio 45701.
council concerning and relating to the meeting of this Logan City council a formal actions were in meetings of requirements including Section 121.23	
SECTION 4: That this Resoluthe earliest period allowed by law.	ution shall take effect and be in force from and after
Approved/Disapproved_LLpg/res	al Tude Howk
Ditte i dasce	Fred C. Hawk, President of Council
Attest: Hearth Carlon, Clerk	Approved: Greg Fraunfelter, Mayor
CEIVEN	Date of Approval: 7-15-18
111 111	

## Resolution/Ordinance No. 3018-02

WHEREAS, the Village of Marray City, village, township or county commission) in Hocking County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the Village of Muray City (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 <u>Luncil</u> (commissioners, council or trustees) of <u>Vallage of Marray</u> City, (village, township) in <u>Hock wg</u> County;
1. The Village of Murray City, village, township or county commission) either (please indicate):
aapproves the District Solid Waste Management Plan; or     bdisapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693. Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this found (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this 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: MPPRAUED 4-0 USTE
Signature of Appropriate Officer: Marcel Duples Date: 7-16-18
DECEIVED Sum S. Word 5/16/16
Roger Berwarger Charmea Berwarger
Jescen Sander

Resolution/Ordinance No.	Resolution	Ordinance	No.	
--------------------------	------------	-----------	-----	--

## A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRICT

WHEREAS, the Laurel Township in Hocking County is located within the Athens-Hocking Solid Waste District.

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Laurel 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 Laurel township in Hocking County:

- 1. The Laurel Township either (please indicate):
  - a. \_\_\_\_X \_\_approves the District Solid Waste Management Plan; or b. \_\_\_\_ disapproves the District Solid Waste Management Plan
  - The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.
- 3. That it is found and determined that all formal actions of this Board of Trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Board of 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: Opproved

Signature of Appropriate Officer: Webon d. Ale Date: 6/29/2018



## Resolution No. 3018-04

# A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRICT

WHEREAS, the Township of Ward in Hocking County is located within the Athens-Hocking Solid Waste District.

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Township of Ward 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 Ward Township in Hocking County:

- 1. The Township Trustees approve the Solid Waste Management Plan.
- The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.
- 3. That it is found and determined that all formal actions of these trustees concerning and relating to the passage of this resolution were adopted in an open meeting of these 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 AT THEIR MEETING HELD ON JULY 10, 2018

Signature of Appropriate Officer: Low E Stand Date: July 10, 2018

THE ATHENS-HOCKING SOLID WASTE DISTRTICT
WHEREAS, the
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the
NOW, Therefore Be It Resolved by the (commissioners, council or trustees) of
1. The Leafurge (city, village, township or county commission) either (please indicate):
aapproves the District Solid Waste Management Plan; or bdisapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Ball, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this Two David (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Two David (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: Agree July Date: 7/10/2018
Fisial Officer

Resolution/Ordinance No. \_\_\_\_\_

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR

## Resolution/Ordinance No. 7032018

	SOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR ATHENS-HOCKING SOLID WASTE DISTRTICT
	1 Trustees
	REAS, the Ames Town Shap (city, village, township or county commission) in County is located within the Athens-Hocking Solid Waste District.
draft	REAS, the Athens-Hocking Solid Waste District Policy Committee prepared and adopted a fina of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 54 and 3734.55.
	REAS, the Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste gement Plan for ratification to each of the legislative authorities of the District
WHE wheth	REAS, the Awe Two Trusteer (name of county, city, village, township) must decide ner it approves of said Solid Waste Management Plan within ninety days of receipt of the Final Draf
	Therefore, Be it Resolved by the TVUS Kes (commissioners, council or trustees) of Townshipoity, village, township) in Atheus County:
1 T	ne Ames Tup Trus Heity, village, township or county commission) either (please indicate):
a. b.	
2.	The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693 Athens, Ohio 45701.
tri or re	that it is found and determined that all formal actions of this Bd of Trusta (Board, council of ustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Bd of Trusta (Board, council or trustees) and of any of its committees that is sulted in such formal actions were in meetings open to the public in compliance with all legal equirements including Sections 121.22 of the Ohio Revised Code.
Appro	oved/Disapproved:

Signature of Appropriate Officer: Www. Current Date: 7/3/18



### AMES TOWNSHIP P.O. BOX 158 AMESVILLE, OH 45711 JULY 3, 2018

Resolution: 7032018

The board of Trustees of Ames Township met in regular session July 3 2018 at the office of Ames Township with members present:

Ann Cunningham Gene Hines Lyle Fuller

Ann Cunningham moved to adopt a resolution to adopt the Solid Waste Management Plan for the Athens-Hocking Solid Waste District.

Gene Hines seconded the resolution and the roll being called upon its adoption the vote resulted as follows:

Ann Cunningham, yes Lyle Fuller, yes Gene Hines, yes

I, Roseanna Hines, fiscal officer of the Board of Trustees of Ames Township, Athens County, Ohio and in whose custody the files, journal, and records of said board are required by the laws of the State of Ohio to be kept, do hereby certify that the foregoing is taken and copied from the original book of minutes now on file with said board, that the foregoing resolution has been compared by me with the original and that the same is a true and correct copy thereof this 3<sup>rd</sup> day of July, 2018.

WITNESS MY SIGNATURE THIS 3rd DAY OF JULY, 2018.

Roseanna Hines, fiscal officer

Ames Township

### VILLAGE OF ALBANY, STATE OF OHIO RESOLUTION 2018-13

DATE OF MOTION: 05-16-2018 BY: Larry Perfee SECOND BY: Weal Reguelols

A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRTICT

WHEREAS, THE VILLAGE OF ALBANY, OHIO IS LOCATED WITHIN THE ATHENSHOCKING SOLID WASTE DISTRICT, AND

WHEREAS, THE ATHENS-HOCKING SOLID WASTE DISTRICT POLICY COMMITTEE PREPARED AND ADOPTED A FINAL DRAFT OF THE SOLID WASTE MAMAGEMENT PLAN IN ACCORDANCE WITH OHIO REVISED CODE SECTIONS 3734.53 3734.54 and 3734.55. AND

WHEREAS, THE ATHENS-HOCKING SOLID WASTE DISTRICT HAS PROVIDED A COPY OF THE ADOPTED SOLID WASTE MANAGEMENT PLAN FOR RATIFICATION TO EACH OF THE LEGISLATIVE AUTHORITIES OF THE DISTRICT, AND

WHEREAS, THE VILLAGE OF ALBANY, OHIO 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 ALBANY, STATE OF OHIO:

SECTION 1. That the Albany, Ohio Village Council approves the District Solid Waste Management Plan.

SECTION 2. That the Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.

SECTION 3. That it is found and determined that all formal actions of the Albany, Ohio Village Council concerning and relating to the passage of this resolution were adopted in an open meeting of this Albany, Ohio Village 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.

WHEREFORE, TO PRESERVE THE PUBLIC HEALTH, SAFETY, MORALS, AND GENERAL WELFARE OF THE RESIDENTS OF THE VILLAGE OF ALBANY, THIS RESOLUTION SHALL BE PASSED AS AN EMERGENCY MEASURE AND SHALL TAKE EFFECT AND BE IN FULL FORCE FROM AND AFTER ITS PASSAGE AND APPROVAL BY THE MAYOR.

(SUSPEND 3 READINGS) X (PASS AS EMERGENCY) X

DATE OF MOTION: 06-20 7018

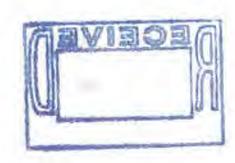


MOTION BY: Lawry Comments
SECOND BY: Elliot Sobar-Commy
Yeas: S Nays: Abstain:

Page 1 of 2

## VILLAGE OF ALBANY, STATE OF OHIO RESOLUTION 2018-13

JOURNAL:				
FIRST READING:	05/16/2018	Yeas:	Nays: O	Abstain: O
SECOND READING:	06/20/2018	Yeas: 5	Nays: 0	Abstain:
THIRD READING:	06/20/2018	Yeas: 5	Nays: 0	Abstain: 💍
ATTEST:				
THIS LEGISLATION V		S TO FORM	ION: JUM	20 20 18
Diana Warner, Fig		-	12	President Pro Tempore
CERTIFICATE OF PL	JBLICATION			
that the foregoing Legisi	ation was duly pub riods of time within	lished by po the Village	sting the same	of Ohio, do hereby certify in the following location ens County, State of Ohio  7818
PUBLIC POSTING LO			7	
<ol> <li>Albany Post O</li> <li>Albany Library</li> <li>Albany Laund</li> <li>Albany Comm</li> <li>Dettwiller Har</li> </ol>	ffice y romat unity Center		Sten	Clau



Fiscal Officer - Clerk

## Resolution/Ordinance No. 2-20/8

WHEREAS, the TROY Township (city, village, township or county commission) in Athens County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the <u>Troy Town ship</u> (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 TRUSTONS (commissioners, council or trustees) of TROY TOWNShip (city, village, township) in 4thers County:
1 The Township or county commission) either (please indicate)
a approves the District Solid Waste Management Plan; or disapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701</li> </ol>
3. That it is found and determined that all formal actions of this <u>Rustes</u> (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this <u>Rustees</u> (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 Yes Approved
Signature of Appropriate Officer:
DECEIVED

## Resolution/Ordinance No. 2018-7

WHEREAS, the Township or county commission) in County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the (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
1. The Township (city, village, township or county commission) either (please indicate):
a approves the District Solid Waste Management Plan; or b disapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
<ol> <li>That it is found and determined that all formal actions of this</li></ol>
Approved/Disapproved: Approved GU P.B. SIC
Signature of Appropriate Officer: \\ \( \lambda \) Date: \( \lambda \) \( \lambda \) Date: \( \lambda \) \( \lambda \) Appropriate Officer: \( \lambda \) \(
Mr. Moore offered a motion to Approve. Mr. Kamenta Seconded the motion. Vok resulted in All Ayes

Ordinance An. 32-18

Present

June 25

2018

#### ORDINANCE 32-18

AN ORDINANCE ADOPTING THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRICT

WHEREAS, the City of Nelsonville, Olmo in Athens County is located within the Athens-Hocking Solid Waste District.

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Flocking Solid Waste District bas provided a copy of the Adopted Solid Waste Management Plan for rautication to each of the legislative authorities of the District.

WHEREAS, the City of Nelsonville 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 ORDAINED by the Council of the City of Nelsonville, Ohio that:

Section 1: The City of Nelsonville approves the District Solid Waste Management Plan.

Section 2: The Clerk is hereby directed to send the District a copy of this ordinance via mail to the attention of Mr. Roger Bail. District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.

Section 3: This ordinance shall be in full force and effect at the earliest moment permitted by law.

Duly enacted by Council on second reading on the 25th day of June, 2018.

NELSONVILLE CITY COUNCIL

President of Council

Clerk of Council

First Reading: Second Reading: June 11, 2018 June 25, 2018



### Resolution/Ordinance No. 07-2018

# A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRTICT

WHEREAS, the <u>Green Township Trustees</u> in <u>Hocking</u> County is located within the Athens-Hocking Solid Waste District.

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Green Township Trustees 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 Green Township in Hocking County:

1.	The	Township	either	Inlease	indicate):
1.	1110	10001121116	CILICI	(bicase	midicale.

в	Х	_approves the District Solid Waste Management Plan; or
b.		disapproves the District Solid Waste Management Plan

- The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.
- 3. That it is found and determined that all formal actions of this <u>Board of Trustees</u> concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this <u>Board of Trustees</u> 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

Signature of Appropriate Officer: Law Waller Date: 06/12/2018



Resolution/Ordinance	No.	
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# A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRTICT

	EREAS, the _ thens	Dover Township County is located within		ship or county commission) in id Waste District.
fina	I draft of the S			ittee prepared and adopted a Ohio Revised Code Sections
		Athens-Hocking Solid Was ent Plan for ratification to e		a copy of the Adopted Solid uthorities of the District.
whe				village, township) must decide ninety days of receipt of the
		Be It Resolved by the		ioners, council or trustees) of
	The <u>Dover</u> indicate):	Township (city, village	e, township or county	commission) either (please
	aX b	approves the District Soli disapproves the District S		
	attention	is hereby directed to sen of Mr. Roger Bail, District C Athens, Ohio 45701.	d the District a copy of coordinator, Athens-Hoc	this resolution via mail to the king Solid Waste District, P.O.
3.	or trustees) c in an open r committees f	oncerning and relating to the setting of this <u>Trustees</u> that resulted in such form	he passage of this resol (Board, council of hal actions were in me	rustees (Board, council ution/ordinance were adopted or trustees) and of any of its etings open to the public in 22 of the Ohio Revised Code.
	A STATE OF THE STATE OF	proved: Approved	10 10	
Sig	nature of App	ropriate Officer	Muly Da	ite: June 21st, 2018

7018 - 5018

ALBUN

### A RESOLUTION ADOPTING THE ATHENS-HOCKING SOLID WASTE DISTRICT SOLID WASTE MANAGEMENT PLAN

WHEREAS, Athens Township, Athens County, Ohio is located within the Athens-Hocking Solid Waste District; and

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, Athens Township, Athens County, Ohio 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 the Athens Township Board of Trustees, Athens County, Ohio as follows:

SECTION I: The Athens Township Board of Trustees, Athens County, Ohio approves the District Solid Waste Plan.

SECTION III: It is found and determined that all formal actions of Athens Township Board of Trustees, Athens County, Ohio concerning and relating to the passage of this resolution were conducted in an open meeting of this Board of Trustees, open to the public in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

SECTION III: The Athens Township Fiscal Officer is hereby directed to send a copy of this resolution via mail to the Athens-Hocking Solid Waste District, c/o Mr. Roger Bail, District Operations Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.

Motion by:

Seconded by:

.

,,,,,

Date: June 4, 2018

For the Board of Trustees, Athens Township, Athens County, Ohio:

Ted Linscott, President

#### REQUIRED CERTIFICATE OF RECORDING OFFICER

I, the undersigned, hereby certify, that the foregoing is a true and correct copy of resolution adopted by the the Athens Township Board of Trustees, Athens County, Ohio held on the 4<sup>th</sup> day in the month of June, 2018, and that I am a duly authorized to execute this certificate.

Brenda Cox, Fiscal Officer



### A RESOLUTION ADOPTING THE ATHENS-HOCKING SOLID WASTE DISTRICT SOLID WASTE MANAGEMENT PLAN

WHEREAS, York Township, Athens County, Ohio is located within the Athens-Hocking Solid Waste District; and

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, York Township, Athens County, Ohio 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 the York Township Board of Trustees, Athens County, Ohio as follows:

SECTION I: The York Township Board of Trustees, Athens County, Ohio approves the District Solid Waste Plan.

SECTION III: It is found and determined that all formal actions of York Township Board of Trustees, Athens County, Ohio concerning and relating to the passage of this resolution were conducted in an open meeting of this Board of Trustees, open to the public in compliance with all legal requirements including Section 121.22 of the Ohio Revised Code.

SECTION III: The York Township Fiscal Officer is hereby directed to send a copy of this resolution via mail to the Athens-Hocking Solid Waste District, c/o Mr. Roger Bail, District Operations Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.

Motion by: Dermay	rullinger
Seconded by: James	m. Free
Aye: 3 Nay:	0
Date: 6/18	, 2018
For the Board of Trustee	es, York Township, Athens County, Ohio:



### REQUIRED CERTIFICATE OF RECORDING OFFICER

1, the undersigned, hereby certify, that the foregoing is a true and correct copy of reso	lution
adopted by the York Township Board of Trustees, Athens County, Ohio held on the	day of
, 2018, and that I am a duly authorized to execute this certificate.	

Jane Ann Edwards, Fiscal Officer

Pimothy R Warren, President

## Resolution/Ordinance No. 2013-2

	WHEREAS, the VINCOL OF COUNTY (city, village, township or county commission) in County is located within the Athens-Hocking Solid Waste District.
	WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
	WHEREAS, the When Solid Waste Management Plan within ninety days of receipt of the Final Draft Plan.
V	NOW, Therefore, Be It Resolved by the Cancil (commissioners, council or trustees) of
	1. The Micros (city, village, township or county commission) either (please indicate);
	<ul> <li>approves the District Solid Waste Management Plan; or</li> <li>disapproves the District Solid Waste Management Plan</li> </ul>
	<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
	3. That it is found and determined that all formal actions of this Council (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Council (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: DSC POW VO
	Signature of Appropriate Officer: John Mark Date: 01/13/18



# Resolution/Ordinance No. 2016-005

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRTICT
WHEREAS, the
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the Lean Tup Tous ten (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 (commissioners, council or trustees) of (city, village, township) in (County:
1. The Thus Leps (city, village, township or county commission) either (please indicate):
aapproves the District Solid Waste Management Plan; or disapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693. Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this
Approved/Disapproved: (LPP1608)
Signature of Appropriate Officer: Date: 6 14-18



# Resolution/Ordinance No. 4/18

WHEREAS, the /OUNShip (city, village, township or county commission) in County is located within the Athens-Hocking Solid Waste District.	
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Weste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.	
WHEREAS, the Benton 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 TUSTES (commissioners, council or trustees) of	
1. The township or county commission) either (please indicate):	
aapproves the District Solid Waste Management Plan; ordisapproves the District Solid Waste Management Plan	
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>	
3. That it is found and determined that all formal actions of this (Board, council or trustees) 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.	
Approved/Disapproved: Proved	
Signature of Appropriate Officer: CINNIFAUL Man Date: 6-14-18	
DECEIVE	
HEAL	

1

8,0/4

Ordinance No. 0-67-

Introduced by Kent Butler, Chair

Passed

June 11 2018

AN ORDINANCE APPROVING THE ATHENS-HOCKING SOLID WASTE MANAGEMENT PLAN.

City & Safety Services Committee

WHEREAS, the City of Athens in Athens County is located within the Athens-Hocking Solid Waste District; and

WHEREAS, the Athens-Hocking Solid Waste District Policy Committee prepared and adopted a final draft of the Solid Waste Management Plan in accordance with ORC Sections 3734.53, 3734.54, and 3734.55; and

WHEREAS, the Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District; and

WHEREAS, the City of Athens must decide whether it approves of said Solid Waste Management Plan within ninety (90) days of receipt of the Final Draft Plan;

BE IT ORDAINED BY THE COUNCIL OF THE CITY OF ATHENS, OHIO:

SECTION I: Athens City Council does hereby approve the Athens-Hocking Solid Waste Management Plan adopted by the Athens-Hocking Solid Waste District Board of Directors on April 11, 2018.

SECTION II: The Clerk of Council is hereby directed to forward a certified copy of this Ordinance to the Athens-Hocking Solid Waste District.

SECTION III: This Ordinance shall be in full force and effect at the earliest moment permitted by law upon its passage and approval by the Mayor.

President of Council

ATTEST

Clerk of Council

APPROVED

Mayol

The Clerk of Council does hereby certify that the foregoing is a true and exact copy of Ordinance No. 0-67-18, duly adopted by Athens City Council on June 11, 2018.

Clerk of Council

**DATED: June 12, 2018** 



## Resolution/Ordinance No. 14-001)2018

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRTICT
WHEREAS, the Lod: Township (city, village, township or county commission) in A-thens County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste District Policy Committee prepared and adopted a fina draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.53 3734.54 and 3734.55.
WHEREAS, the Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the Lod: 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 <u>frustees</u> (commissioners, council or trustees) of Lod: Township (city, village, township) in <u>Athens</u> County:
1. The Lodi Township (city, village, township or county commission) either (please indicate):
aapproves the District Solid Waste Management Plan; ordisapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this <u>Board of trusters</u> oard, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this <u>trustee</u> (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: Denne Joden



\_ Date: \_ 6/1/18

### Resolution # 14-06112018

The Board of Lodi Township Trustees, Athens County, met in regular budget meeting on June 11, 2018 an adopted the following resolution:

Approve a resolution/ordinance to adopt the Solid Waste Management Plan for the Athens-Hocking Solid Waste District.

Whereas a motion was made by <u>Denver Jordan</u> to approve the resolution, seconded by <u>Albert Hawk</u>

The foregoing resolution was adopted by the Lodi Township Trustees.

### **Lodi Township Trustees**

Wenner Indan Denver Jordan

Larry Baringer

for Nanh Albert Hawk

I, Jonetta Niggemeyer, Fiscal Officer for Lodi Township Trustees, certify that the foregoing is a true and correct copy of a resolution adopted by said board on June 11, 2018.

onetta Niggemeyer

Fiscal Officer

## Resolution/Ordinance No. 5 2018

WHEREAS, the Alexander Township or county commission) in County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the Alexander Townsky (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 <u>JRUSHERS</u> (commissioners, council or trustees) of <u>JRUSHERS</u> (city, village, township) in <u>JRUSHERS</u> County:
1 The township or county commission) either (please indicate):
aapproves the District Solid Waste Management Plan; or bdisapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
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 May 9, 20/8 (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: 1900 ea
Signature of Appropriate Officer: Quely Ellis Date: May 9, 2018



## Resolution/Ordinance No. 2018-00-07

WHEREAS, the Than Tannahuf (city, village, township or county commission) in Hackeng County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the Marion Tup Trustees (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 Marien (city, village, township) in Hacking County:
The Marion Tup Trucker (city, village, township or county commission) either (please indicate):     aapproves the District Solid Waste Management Plan; or     bdisapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701</li> </ol>
3. That it is found and determined that all formal actions of this Land of tuber (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this Dand 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: Cappanied
Signature of Appropriate Officer: Sundy Souder Date: June 7, 2018
DECEIVED NUM 11 2018

# A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRICT

WHEREAS, the Board of Waterloo Township Trustees in Athens County is located within the Athens-Hocking Solid Waste District.

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Board of Waterloo Township Trustees 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 Waterloo Township Trustees in Athens County:

- The Board of Waterloo Township Trustees approves the District Solid Waste Management Plan.
- The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, OH 45701.
- 3. That it is found and determined that all formal actions of the Board of Waterloo Township Trustees concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of the Board of Waterloo Township Trustees and of any its committees that resulted in such formal actions were in meeting open to the public in compliance with all legal requirements including Sections 121.22 of the Ohio Revised Code.

Approved

Kimberly K. Russell, Waterloo Township Fiscal Officer

6/7/18



A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRTICT
WHEREAS, the Following (city, village, township or county commission) in County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the Fall 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 Falls Tup (city, village, township) in Furking County:
1. The Township or county commission) either (please indicate)
a approves the District Solid Waste Management Plan; or b disapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this <u>Pound</u> (Board, council or trustees) concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this <u>Pound</u> (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: 3-0
Signature of Appropriate Officer: Som Egylet Date: 5/15/18
DECEIVED MAY 2 1 2018

Resolution/Ordinance No.

Resolution/Ordinance No
A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRTICT
WHEREAS, the Canasari Tricolistic (city, village, township or county commission) in County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the
NOW, Therefore, Be It Resolved by the
1. The (city, village, township or county commission) either (please indicate):
aapproves the District Solid Waste Management Plan; or     disapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this \( \frac{1}{2}\ldots \) \( \frac{1}
Approved/Disapproved:3
Signature of Appropriate Officer: Rand Glade Date: 6-1-18



## Resolution/Ordinance No. 0530

WHEREAS, the Stare TOWNSHIP (city, village, township or county commission) in Hocking County is located within the Athens-Hocking Solid Waste District.
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the 51000 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 + rustees (commissioners, council or trustees) of 5+ou township (city, village, township) in + curve County:
1. The Starr township (city, village, township or county commission) either (please indicate):
approves the District Solid Waste Management Plan; or     disapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this
Approved/Disapproved: Approved
Signature of Appropriate Officer: fort Com 1 25. Date: 5/30/18
DECEIVED
JUN - 4. 2018

Athena County Commissions

Charlie Adkins eadkinstå athensoh.org Chris Chmiel echmieha athensoh.org Lenny Eliason, MPA leliason@athensoh.org

15 South Court St., Vibers, 10th d 5701 (740) 592-3219 Visit us at our website: co-athersolvore JoAna Rockhold Clerk/Admin, Assistant jsikorskiwathensoh.org Felephone (740) 592-3292 Fax (740) 594-8010

## A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRICT

WHEREAS, the Board of Commissioners in Athens County is located within the Athens-Hocking Solid Waste District, and;

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.

WHEREAS, the Athens County 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 Commissioners of Athens County:

- The Commissioners approves the District Solid Waste Management Plan.
- The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.
- 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 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.

Signed this 22th day of May, 2018

Lenny Eliason, President

Chris Chmiel

Charlie Adkins DECEIVE DUN -4 2018



THE ATHENS-HOCKING SOLID WASTE DISTRTICT	JR
WHEREAS, the	ir
WHEREAS, the Athens-Hocking Solid Waste District Policy Committee prepared and adopted a fir draft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.54 and 3734.55.	
WHEREAS, the Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.	ste
WHEREAS, the	de
NOW, Therefore, Be It Resolved by the freshes (commissioners, council or trustees)	o
1 The Town show (city, village, township or county commission) either (please indicate):	
aapproves the District Solid Waste Management Plan; or     disapproves the District Solid Waste Management Plan	
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attenti of Mr. Roger Bail. District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 69 Athens, Ohio 45701.</li> </ol>	
3. That it is found and determined that all formal actions of this	ar
Approved/Disapproved:	
Signature of Appropriate Officer: with Monty Date: 5-23-2018	
DECEIVED	

Resolution/Ordinance No. \_\_\_\_\_

## Resolution/Ordinance No. 6-18

WHEREAS, the
WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.
WHEREAS, the AMESVILLE (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 <u>COUNCIL</u> (commissioners, council or trustees) of <u>AMESVILLE</u> (city village) township) in <u>ATHENS</u> County:
1. The AMESVILLE (city, village, township or county commission) either (please indicate):
aapproves the District Solid Waste Management Plan; or bdisapproves the District Solid Waste Management Plan
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693, Athens, Ohio 45701.</li> </ol>
3. That it is found and determined that all formal actions of this
Approved/Disapproved: 5/9//8
Signature of Appropriate Officer: Say Arosman Date: 5/15/18
DECEIVED MAY 1 7 2018

## RESOLUTION HOCKING COUNTY, OHIO GOOD HOPE TOWNSHIP

BE IT RESOLVED by the BOARD of TRUSTEES of GOOD HOPE TOWNSHIP, HOCKING COUNTY, OHIO, REGULAR MEETING on May 10, 2018 with the following members present: Rodney Watkins, Rick Hacker and Harley Goss, the following resolution was passed:

Rick Hacker moved the adoption of the following Resolution:

To adopt the Solid Waste Management Plan for the Athens-Hocking Solid Waste District.

Roll Call: Trustee Rodney Watkins-Yes

Trustee Rick Hacker-Yes Trustee Harley Goss-Yes

Chairman declared resolution duly adopted. Adopted this 10th day of May, 2018

Fiscal Officer



Resolution/Ordinance N	0.
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Ho-Kwa County is located within the Athens-Hocking Solid Waste District.	in
WHEREAS, the Athens-Hocking Solid Waste District Policy Committee prepared and adopted a findraft of the Solid Waste Management Plan in accordance with Ohio Revised Code Sections 3734.54 and 3734.55.	ial 53
WHEREAS, the Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District.	te
WHEREAS, the Two (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 Drain.	le aft
NOW, Therefore, Be It Resolved by the Trustees (commissioners, council or trustees)	of
The Good Hope Two (city, village, township or county commission) either (please indicate):     aapproves the District Solid Waste Management Plan; or disapproves the District Solid Waste Management Plan	
<ol> <li>The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 69: Athens, Ohio 45701.</li> </ol>	
3. That it is found and determined that all formal actions of this trustees) concerning and relating to the passage of this resolution/ordinance were adopted in a open meeting of this trustees (Board, council or trustees) and of any of its committees the resulted in such formal actions were in meetings open to the public in compliance with all leging requirements including Sections 121.22 of the Ohio Revised Code.	in at
Approved/Disapproved: Approved	
Signature of Appropriate Officer: 9 May 10 2018	

THE BOARD OF ROME TOWNSHIP TRUSTEES, ATHENS COUNTY, MET IN REGULAR SESSION ON MAY 02, 2018 AND ADDITTED THE FOLLOWING RESOLUTION:

A RESOLUTION/ORDINANCE TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHLES-HOCKING SOLID WASTE DISTRICT

WHEREAS, ROME TOWNSHIP in ATHENS County is located within the Athens-Hocking Solid Waste District

WHEREAS, the Athens-Hocking Solid Waste 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 Athens-Hocking Solid Waste District has provided a copy of the Adopted Solid Waste Management Plan for ratification to each of the legislative authorities of the District

WHEREAS, the <u>ROME TOWNSHIP</u> 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 <u>TRUSTEES</u> of <u>ROME TOWNSHIP</u> in <u>ATHENS</u> County:

1. The	POM	FTO	WALL	111
4 - 1 116	LCOIM	LIU	AA 1 A 2 1	22.5

u. 7835	approves the District Solid Waste Management Plan; or
h	disapproves the District Solid Waste Management Plan

- The Clerk is hereby directed to send the District a copy of this resolution via mail to the attention of Mr. Roger Bail. District Coordinator, Athens-Hocking Solid Waste District, P.O. Box 693. Athens. Ohio 45701.
- 3. That it is found and determined that all formal actions of this <u>BOARD OF TRUSTEES</u> concerning and relating to the passage of this resolution/ordinance were adopted in an open meeting of this <u>BOARD OF TRUSTEES</u> and of any of its committees that resulted in such formal actions were in meetings open to the public in compliance with all legal tequirements including Sections 121.22 of the Ohio Revised Code.

Approved/Disapproved:

Signature of Appropriate Officer:

Date: 05-02-2018

WHEREAS, A MOTION WAS MADE BY. Devield Pestern . TO APPROVE ATTACHED RESOLUTION, SECONDER WY: 471 04 Ale Vey .

THE FOREGOING RESOLUTION WAS ADOPTED BY UNANIMOUS VOTE BY THE ROME TOWNSHIP TRUSTEES.

ROME TOWNSHIP TRUSTEES

INTERIOR CALL, CHAIRMAN OF BOARD

DONALD POSTON, VICE CHAIRMAN

AARON MCVEY, TRUSTEE

1, WILLARD A. DUNFEE, FORCAL OFFICER FOR ROME TOWNSHIP TRUSTEES CERTIFY THAT THE FOREGOING IS TRUE AND CORRECT COPY OF A RESOLUTION ADOPTED BY SAID BOARD ON MAY 02, 2018.

WILLARD A. DUNFEE FISCAL OFFICER



### HOCKING COUNTY COMMISSIONERS



1 EAST MAIN STREET - COURTHOUSE - LOGAN, OHIO 43138

www.co.hocking.oh.us

Jeff Dickerson, President Sandra Ogle, Vice President Gary Waugh, Commissioner

> Rose Marshall, Clerk Phone: (740) 385-5195 Fax: (740) 385-1105

### A RESOLUTION TO ADOPT THE SOLID WASTE MANAGEMENT PLAN FOR THE ATHENS-HOCKING SOLID WASTE DISTRICT

WHEREAS, the Board of Hocking County Commissioners are located within the Athens-Hocking Solid Waste District; and

WHEREAS, the Athens-Hocking Solid Waste 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 Hocking County Commissioners 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 the Board of Hocking County Commissioners:

١.	Hocking	County	
	a.	1	approves the District Solid Waste Management Plan
	b.		disapproves the District Solid Waste Management Plan

- The Clerk is hereby directed to send the District a copy of this Resolution to the attention of Mr. Roger Bail, District Coordinator, Athens-Hocking Solid Waste, PO Box 693, Athens, Ohio 45701
- That it is found and determined that all formal actions of the board concerning and relating to the
  passage of this resolution were adopted in an open meeting to the public in compliance with all legal
  requirements including Sections 121.22 of the Ohio Revised Code

Approved/Disapproved: Opproved:

Signature of Appropriate Officer:

Date: 5 / 1 / 100

WAY -1 2018

This institution is an equal opportunity provider and employer."

## APPENDIX D

# IDENTIFICATION OF CONSULTANTS RETAINED FOR PLAN PREPARATION

## Identification of Consultants for Plan Preparation



Consulting Firm: GT Environmental, Inc.

635 Park Meadow Road

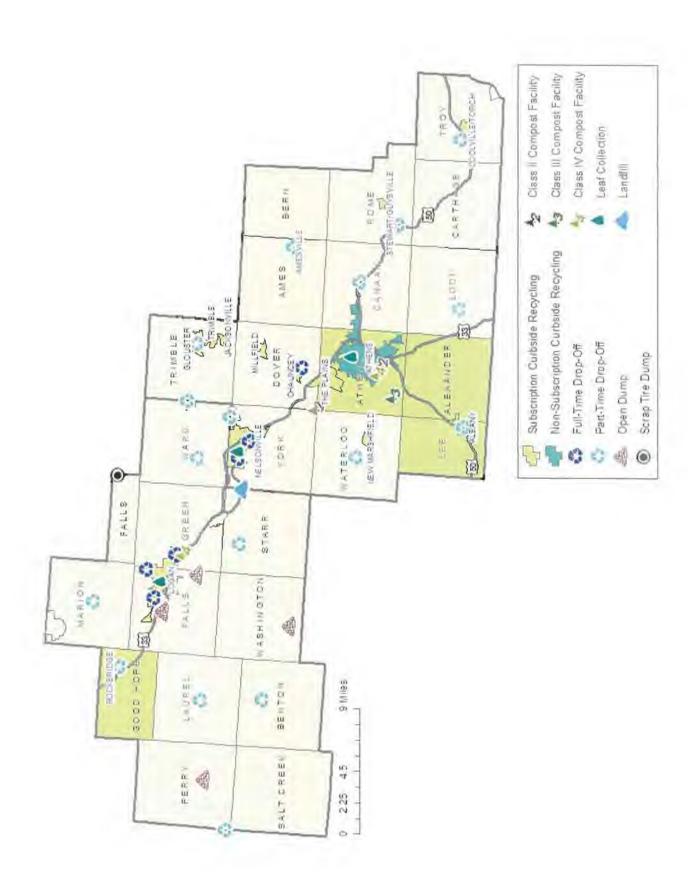
Suite 112

Westerville, Ohio 43081

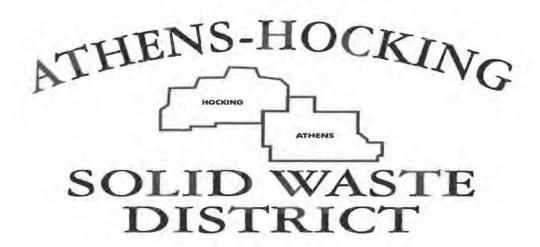
Project Manager: Jim Skora

Senior Manager (330) 689-1105 (614) 899-9255 Fax

## APPENDIX E DISTRICT MAP



# APPENDIX F SURVEY INSTRUMENTS



To: Automotive Businesses in Athens and Hocking Counties

From: Roger Bail, District Coordinator

Date: February 19, 2016

RE: Automotive Waste and Recycling Survey for the Athens-Hocking Joint Solid Waste

Management District.

Ohio's comprehensive solid waste management law requires the Athens-Hocking Joint Solid Waste Management District to plan and implement programs to reduce and recycle waste and to provide for environmentally sound waste disposal. The enclosed Automotive Recycling Survey will provide us with information regarding waste reduction, recycling, and waste disposal. This information will assist the District in our continuing efforts to meet or exceed the recycling goals mandated by the Ohio Solid Waste Management Plan.

We need your help. We must depend upon business and industry to voluntarily report waste reduction and recycling information so that the District can demonstrate progress toward meeting state mandated goals. It is very important that we are informed about all recycling and waste reduction efforts. All documented waste reduction and recycling can be counted toward meeting our waste reduction goals.

Please note that we will not identify your company by name or list the amount of material sent for disposal by your company anywhere in our Plan or reports. All of the survey data will be kept confidential and will be aggregated for the report by the standard industrial code for similar types of businesses/industries.

Brief directions for completing the survey are included. Your cooperation in completing and returning the survey quickly will be appreciated. If you have questions regarding this survey please feel free to contact me at (740) 797-4208.

Please return the completed survey by March 24, 2016 by mail using the provided pre-addressed envelope, fax (740-753-6885), or e-mail (athenshockingswd@gmail.com). Thank you!

Please complete and return the survey on the back of this form.

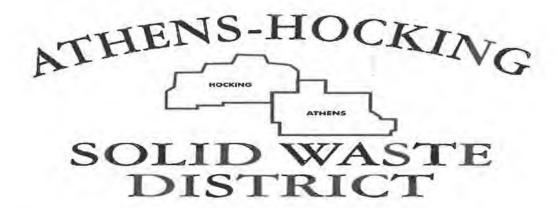
### 2015 Athens-Hocking Solid Waste District **Automotive Recycling Survey**

February 19, 2016

Please fill out the sections of the form below that pertain to you business. This survey should be returned by March 24, 2016 to Athens-Hocking Solid Waste District in the pre-addressed envelope that is enclosed. If you have questions about the survey or how the data is used, please call 740-753-6885.

Company Name:		Company Pho	Company Phone Number:		
Company Address:		County:	Athens		
Contact Name:			Contact Title:		
was recycled during 2015. Inc	dicate whether the am	ount enter is in pour	om Athens and Hocking County sources that nds, tons or cubic yds by checking the box. recycling in the box provided.		
Table B: Quantities of Recyc	led Materials				
Recyclable Material Category	Amount Recycled in 2015	Units	Name of Hauler or Processor that Take the Material		
Lead-Acid Batteries		□ lbs. □ tons □ yd³			
Food		□ lbs. □ tons □ yd³			
Glass		□ lbs. □ tons □ yd³			
Ferrous Metals		□ lbs. □ tons □ yd³			
Non-Ferrous Metals		□ lbs. □ tons □ yd³			
Corrugated Cardboard		□ lbs. □ tons □ yd³			
All Other Paper		□ lbs. □ tons □ yd³			
Plastics		□ lbs. □ tons □ yd³			
Textiles		□ lbs. □ tons □ yd³			
Wood & Wood Pallets		□ lbs. □ tons □ yd³			
Motor Oil / Trans Fluid	N	□ lbs. □ tons □ gals			
Commingled Recyclables		□ lbs. □ tons □ yd³			
Yard Waste		□ lbs. □ tons □ yd³			
Other:		□ lbs. □ tons □ yd³			
Other:		□ lbs. □ tons □ yd³			

Thank you for your assistance by supplying the District with the information needed to complete our report to Ohio EPA. If you did not provide any recycling services in 2015, please write "No Recycling" on this form and return it in the enclosed envelope or if you prefer, fax the survey to (740) 753-6885 or e-mail it to athenshockingswd@gmail.com.



To: Composters in the Athens-Hocking Solid Waste District

From: Roger Bail, Operations Coordinator

Please Continue to Other Side

Subject: Completing of the Recycling Survey for the year 2015.

As you may know the solid waste district completes an annual data report for the EPA. This report helps us to determine the amount of recycling and composting in the district. We would appreciate it if you would please fill out the enclosed survey and return it in the postage paid envelope provided by March 24, 2016. If you have any questions or comments, please do not hesitate to contact me at (740) 797-4208. Thank you for providing an invaluable service to the solid waste district.

Table B: Quantities of Recycled Materials			
Recyclable Material Category	Amount Recycled in 2015	Units	
Lead-Acid Batteries		□ lbs. □ tons □ yd³	
Food		□ lbs. □ tons □ yd3	
Glass		□ lbs. □ tons □ yd3	
Ferrous Metals		□ lbs. □ tons □ yd3	
Non-Ferrous Metals		□ lbs. □ tons □ yd³	
Corrugated Cardboard		□ lbs. □ tons □ yd3	
All Other Paper		□ lbs. □ tons □ yd³	
Plastics		□ lbs. □ tons □ yd³	
Textiles		□ lbs. □ tons □ yd³	
Wood & Wood Pallets		□ lbs. □ tons □ yd³	
Commingled Recyclables		□ lbs. □ tons □ yd³	
Compost		□ lbs. □ tons □ yd³	
Yard Waste		□ lbs. □ tons □ yd³	
Other:		□ lbs. □ tons □ yd³	
Other:		□ lbs. □ tons □ yd³	

Person completing survey (contact name):		
Contact phone number and/or email:		

In 2015 what items and how much did you collect (please specify tons, lbs., cubic yards)?

Greens		
Grasses:		
Tea or coffee grounds:		
Fruit/Vegetable Scraps:		
Plant Trimmings:		
Weeds:		
Egg Shells:		
Manure:		
that you currently compost/recycle?		
nents of your waste stream that you would recycle if a aterial? If so, what are the materials?		
ling from the public and whether there is a charge for		

Thank you for your assistance by supplying the District with the information needed to complete our report to Ohio EPA. If you did not provide any recycling services in 2015, please write No Recycling on this form and return it in the enclosed envelope to The Athens-Hocking Solid Waste District at P.O. Box 693 Athens, Ohio 45701. If you prefer, fax the survey to (740)753-6919 or e-mail it to <a href="mailto:athenshockingswd@gmail.com">athenshockingswd@gmail.com</a>.

#### ATHENS-HOCKING SOLID WASTE MANAGEMENT DISTRICT 2015 WASTE HAULER SURVEY

February 19, 2016

Ohio EPA requires an annual district report from each solid waste management district in the state. Information about recycling is an important part of our report to Ohio EPA. In order to provide accurate recycling information, your assistance is needed. Please fill out the sections of the form below that pertain to your business. This survey should be returned by <a href="March 24">March 24</a>, <a href="2016">2016</a> to The Athens-Hocking Solid Waste District in the enclosed pre-addressed envelope. If you have questions about the survey, please call Roger Bail, District Coordinator, at (740) 753-6885.

Thank you in advance for your participation in the survey!

n		
	Company Phone Numb	er:
:		
	Contact Title:	
Type of Service Provided (see key)	2015 Tons Collected Per Service Provided	Landfill, Compost, or Recycling Facility Used
CRTC RRDO CRRC	10,500 tons 1,500 tons 2,000 tons	XYZ Landfill ABC Recycling Ohioville MRF
	Type of Service Provided (see key)  CRTC RRDO	Company Phone Number Contact Title:  Contact T

CRC

CRYC Curbside Residential Yard Waste Collection

RRDO Residential Recycling Drop-Off

Commercial Recyclables Collection

Please See Other Side

Key:

CRTC Curbside Residential Trash Collection

CRRC Curbside Residential Recyclables Collection

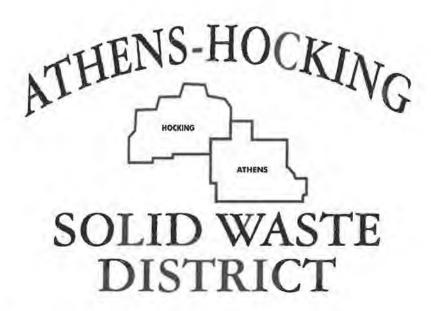
CRPAYT Curbside Residential Pay-As-You-Throw

Industrial Recyclables Collection

Part 3 - Services: Please check all of the services that you provide in Athens and Hocking Counties:

RESIDENTIAL	COMMERCIAL	INDUSTRIAL
☐ Waste Collection	■ Waste Collection	■ Waste Collection
☐ Appliance Collection	■ Recycling Collection	□ Recycling Collection
☐ Recycling Collection	☐ Yard Waste Collection	☐ Yard Waste Collection
☐ Tire Collection	☐ Food Waste Collection	☐ Food Waste Collection
☐ Vard Waste Collection		

Thank you for your assistance by supplying the District with the information needed to complete our report to Ohio EPA. If you did not provide any collection services in Athens or Hocking County in 2015, please write No Hauling on this form and return it in the enclosed envelope to The Athens-Hocking Solid Waste District at P.O. Box 693 Athens, Ohio 45701. If you prefer, fax the survey to 740-753-6919 or e-mail it to athenshockingswd@gmail.com.



Date: February 19, 2016

From: Roger Bail, Operations Coordinator

RE: 2015 Reuse and Recycling Survey

Ohio's comprehensive solid waste management law requires the Athens-Hocking Joint Solid Waste Management District to plan and implement programs to reduce and recycle waste and to provide for environmentally sound waste disposal. The enclosed Reuse and Recycling Survey will provide us with information regarding the types of materials that are given a second life through refurbishing and resale programs. This information will assist the District in preparing our updated Five Year Solid Waste Management Plan as required by the Ohio Environmental Protection Agency.

We need your help. We must depend upon voluntarily reporting of waste reduction and recycling information so that the District can demonstrate progress toward meeting state mandated goals. It is very important that we are informed about all waste reduction efforts. All documented waste reduction and recycling can be counted toward meeting our waste reduction goals.

Please note that all of the survey data will be kept confidential and will be aggregated for the report under the heading of reuse/resale opportunities.

Brief directions for completing the survey are included. Your cooperation in completing and returning the survey quickly will be appreciated. If you have questions regarding the Athens-Hocking Joint Solid Waste Management District programs and activities, please contact the District at (740) 753-6885 or by e-mail at <a href="mailto:athenshockingswd@gmail.com">athenshockingswd@gmail.com</a>.

### 2015 Reuse and Recycling Survey

Instructions: Please complete the following tables to the best of your ability.

Company ar	nd Contact Inf	ormation		
Company Na	ame:			
Company Ad	ldress:			
Company Ph	one Number:			
Contact Nam	ne:		Contact Email:	
Operating Hours	For Sales	For Donations	If you have remote collection locations in Athens or Hocking Counties, please list:	
Sunday			Auteris of Flocking Counties, please is	
Monday				
Tuesday			-	
Wednesday				
Thursday			-	
Friday				
Saturday				

Amount reused or recycled in 2015: The amounts reported may be expressed in pounds, tons, cubic yards, or numbers of items. Estimates are ok. Please list materials that you sell through your retail facility and materials that you sell to wholesalers and sell or give to recyclers. If you have additional information, please attach.

Material	Amount	Unit of measure: lbs, tons, units	Recycler or wholesale buyer for materials that are sold or given for recycling or further processing
Clothing			
Shoes			
Major household appliances			
Small household appliances			
Furniture			
Miscellaneous household goods			
Other: (list)			
Other (list):			

Please return the survey form by March 24, 2016. Thank you for your assistance by supplying the District with the information needed to complete our report to Ohio EPA. If you did not provide any recycling services in 2015, please write "No Recycling" on this form and return it in the enclosed envelope to The Athens-Hocking Solid Waste District at P.O. Box 693 Athens, Ohio 45701. If you prefer, fax the survey to 740-753-6919 or e-mail to <a href="mailto:athenshockingswd@gmail.com">athenshockingswd@gmail.com</a>.



February 2016

Dear Facility Manager,

The Athens-Hocking Solid Waste District invites you to participate in its annual recycling survey. The purpose of the survey is to collect data on the types and amounts of solid waste recycled in 2015. The data you provide will be combined with other businesses' data, so your individual company's or organization's information will not be identified.

#### Why is your establishment being surveyed?

Your establishment is located in the Athens-Hocking Solid Waste District. The District is required by law to provide recycling programs for businesses, institutions, industries, and residents. The information you supply will help us provide programs that meet the needs of our local community.

#### How will the data be used?

The data provides a snapshot of recycling activities and opportunities. It is used to track progress towards recycling goals, assess recycling infrastructure, and determine the needs of businesses/institutions such as yours.

#### Participation in the survey

The survey asks for the total pounds/tons recycled in 2015, which can typically be found on hauler invoices or receipts from processors/brokers of recyclable materials. Completing the survey should only take a few minutes.

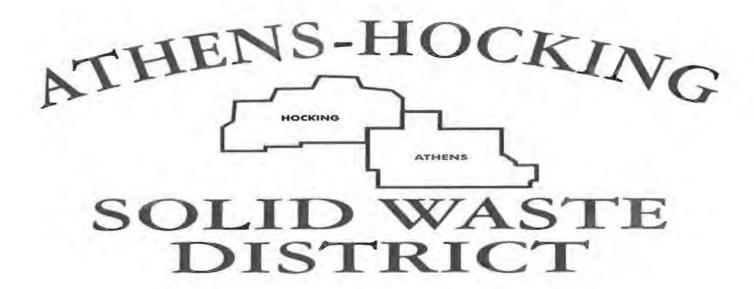
Please complete and submit the survey by March 24, 2016 using the pre-addressed envelope (enclosed). You may also submit your survey by fax to (740) 753-6919 or e-mail it to <a href="mailto:athenshockingswd@qmail.com">athenshockingswd@qmail.com</a>. If you have questions about the survey, please call 740-753-6885.

We greatly appreciate your cooperation in completing this survey.

Sincerely,

Roger Bail, Coordinator Athens-Hocking Solid Waste District

Enclosure



Thank you for completing this survey. The information you provide for your company is crucial to monitoring Athens-Hocking Solid Waste Management District's progress towards achieving Ohio's recycling goals. Your information will be combined with information submitted by other businesses and used to calculate the amount of material residential, commercial businesses, and industrial units have recycled in the Athens-Hocking Solid Waste District and Ohio, in 2015. The data will be summarized.

For assistance completing this form or any questions related to the survey, please contact Roger Bail, the Athens-Hocking Solid Waste Management District's Coordinator, at <a href="mailto:athenshockingswd@gmail.com">athenshockingswd@gmail.com</a> or (740)753-6885.

Please complete and submit this survey no later than March 24th, 2016.

#### Options for Returning the Completed Survey

Email directly to Roger Bail at athenshockingswd@gmail.com Subject Line: 2015 Recycling Service / Hauler

#### Survey

Fax to (740)753-6919, Attention: Roger Bail

#### Instructions for completing Table A:

**Table A** provides a list of common materials that are recycled in Ohio. Please indicate the unit of each quantity of material that is reported (pounds, tons or cubic yards). Provide any comments related to each material as necessary. Please do not report any liquid waste, hazardous waste or construction & demolition debris.

The list in *Table A* is not all-inclusive. If your facility recycles a material that is not listed in *Table A*, please enter the name and quantity of that material on a line labeled "Other." Some materials may not apply to your operation; simply

enter "0" for those materials. Some of the <u>materials are listed in broad categories</u>. For example, "Plastics" include plastics #1-7, plastic films, ect. Please refer to the attached Materials Cheat Sheet for examples of materials and definitions.

If you do not currently track this information internally, your recycling processor / broker may be able to provide it upon request. The Athens-Hocking Solid Waste Management District may also be able to provide you with assistance.

Recyclable Material	Amount Recycled in	Units	Comments
Category	2015		
Lead-Acid Batteries		□ lbs. □ tons □ yd³	
Food		□ lbs. □ tons □ yd³	
Glass		□ lbs. □ tons □ yd³	
Ferrous Metals		□ lbs. □ tons □ yd³	
Non-Ferrous Metals		□ lbs. □ tons □ yd³	
Corrugated Cardboard		□ lbs. □ tons □ yd³	
All Other Paper		□ lbs. □ tons □ yd³	
Plastics		□ lbs. □ tons □ yd³	
Textiles		□ lbs. □ tons □ yd³	
Wood & Wood Pallets		□ lbs. □ tons □ yd³	
		□ lbs. □ tons □ yd³	
Commingled Recyclables		□ lbs. □ tons □ yd³	
Yard Waste		□ lbs. □ tons □ yd³	
Other:		□ lbs. □ tons □ yd³	
Other:		□ lbs. □ tons □ yd³	
		□ lbs. □ tons □ yd³	

Person completing survey (contact name	:):
Contact phone number and/or email: _	

Thank you for your assistance by supplying the District with the information needed to complete our report to Ohio EPA. If you did not provide any recycling services in 2015, please write No Recycling on this form and return it in the enclosed envelope to The Athens-Hocking Solid Waste District at P.O. Box 693 Athens, Ohio 45701. If you prefer, fax the survey to (740)753-6885.

Thank you again for taking the time to complete this survey. Please contact Roger Bail with any questions.

Roger Bail, Coordinator Athens-Hocking Solid Waste Management District Phone: (740) 753-6885

athenshockingswd@gmail.com

### ATHENS-HOCKING SOLID WASTE DISTRICT 2015 COMMERCIAL/INSTITUTIONAL RECYCLING SURVEY

Confidentiality: The Athens-Hocking Solid Waste District (District) will use the information in this survey for summary purposes only to identify types of wastes that may be further reduced or recycled. Instructions: Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that was generated in Athens or Hocking Counties during 2015. If you did not recycle in 2015, please write "No Recycling" on the survey. Upon completion, please return the survey by March 24, 2016. An addressed envelope is enclosed for your convenience or you can fax the completed survey to (740) 753-6919 or email it to athenshockingswd@gmail.com. If you have any questions, please call Roger Bail at 740-753-6885.

Part I - General Information	
Company Name:	
Company Address:	
Contact Person:	Phone:
Contact Email:	
# of Employees:	SIC Code:
Part II Proveling	

Table 1 –Data recorded in this table should include all of the recyclables generated by your company in 2015 along with the processor/recycler/broker used for each material recycled. Please estimate the quantities of each type of material recycled in tons. The data in the recycled column is used to calculate the District's progress in meeting state and local recycling goals. For data conversions assume the following: 2,000 Pounds = 1 ton, 3 cubic yards = 1 ton, 7.5 lbs per gallon for used oil and 8 lbs/gallon for used antifreeze.

Table 1 -Recycling in 2015

	Category	Total Tons Recycled	Processor/Recycler/Broker
	Example: Mixed Paper	2.5 tons	AHRC Recycling Center, Millfield, OH
	Mixed Paper		
P	Cardboard 1 (use Table 2 if needed)		
Paper	Newsprint		
er	Office Paper		
	Other Paper (specify)		
15	Wood		
Wood	Sawdust		
òd	Board Ends		
	Pallets		
	Aluminum Beverage Containers		
-	Steel Food/Beverage Containers		
Metals	Non-Ferrous Metals (aluminum, copper, brass)		
(I)	Ferrous Metals (steel, iron)		
	Appliances (white goods)		
	Mixed plastics		
P	PETE Plastic (#1)		
Plastics	HDPE Plastic (#2)		
CS	#3 - #7 Plastics		
86	Other Plastics (specify)		
Glass	Glass		

	Category	Total Tons Recycled	Processor/Recycler/Broker
Rubber	Rubber (not including tires)		
	Passenger Tires		
	Light Truck/Semi Tires	47	
	Tractor Tires		
	Commingled (mixed, single stream)	10	
	Textiles (clothing, fabric)		
	Food		
	Yard Waste (grass, brush)		
	Lead Acid Batteries		
õ	Dry Cell Batteries		
Other	Used Oil (residential only)		
	Used Antifreeze (residential only)		
	Other:	7	
	Totals		

The District realizes that businesses may primarily recycle cardboard only but may not have actual weights of the cardboard based on the style of service provided (dumpster service). The District has provided the following table to document the amount of cardboard recycled annually. Simply fill in the size of your dumpster (2, 4, 6, 8 or 10 cubic yard), how full it is when picked up on average (as a percentage) and the number of times the dumpster is emptied each week. Then use the formula in the table below to calculate your annual tonnage of cardboard. An example is given to assist you in the calculation. If you have additional dumpsters, simply perform the same exercise for each separate dumpster. The total tons recycled can then be transferred to the cardboard total in Table 1.

Table 2 - Recycled Cardboard Calculator

Dumpster	Size of Dumpster (cubic Yards) (a)	Percentage Full When Picked Up (b)	No of Pickups per Week (c)	Estimated Cardboard Recycled (Tons) (a) x (b) x (c) x 52 / 20
Example	6 cubic yards	80% full	1 time/week	(6 x 0.80 x 1 x 52 / 20) = 12.48 tons
1				
2				
3				
4				
5			( I	
Total	Cardboard Recy	cled in Tons (Enter	in Table 1)	

Return the survey in the enclosed stamped envelope. If you prefer, you may instead fax it to 740-753-6919 or email it to athenshockingswd@gmail.com.

THANK YOU FOR COMPLETING THIS SURVEY!

## **Materials Cheat Sheet**

#### Food

- Compostable food waste
- Food donations

#### Glass

- Bottles (any color)
- Jars

#### Ferrous Metals

- Mild Steel
- Carbon Steel
- Stainless Steel
- Cast Iron
- Wrought Iron

#### Non-Ferrous Metals

- Aluminum
- Copper
- Brass
- Silver
- Lead
- Misc. Scrap Metals

#### All Other Paper

- Office paper
- Paperboard
- Newspapers
- Folders
- Telephone Books
- Magazines
- Catalogs
- Junk Mail

#### **Plastics**

- Plastics #1-7
- Plastic Bottles
- Plastic Jugs
- Shrink Wrap
- Plastic Films
- Coat Hangers

#### Textiles

- Fabrics
- Clothes
- Carpet

#### Wood

- Bark
- Woodchips
- Sawdust
- Scrap Wood
- Shipping Pallets
- Boards

#### Commingled Recyclables

 This is a mix of several different materials that are placed into one container and hauled for recycling. It can include all or a combination of the materials listed above.

## Examples of materials that fall under "Other"

- Appliances
- Household Hazardous Waste
- Used Motor Oil
- Electronics
- Scrap Tires
- Dry Cell Batteries
- Any other solid waste that is recycled at your facility

Estimating recycling tonnages – if you are not able to obtain exact tonnages of materials recycled, there are numerous ways to estimate the amount of material recycled in any given year. Below are some common conversion factors that may assist you with your estimations:

Density (lb/cu yd)
484
200
139
100

- (size of container (in cubic yards) X number of collections per month X 12) X density (see table above) = Total Pounds per Year
- 2,000 pounds = 1 ton

For more assistance, contact your solid waste management district.



#### Dear Industrial Facility -

The purpose of this survey is to collect data on the types and the amounts of solid waste that industrial facilities recycled in 2015. This information is critical for the Athens-Hocking Solid Waste District to track its progress in meeting Ohio's statewide recycling goals. The data you provide will be combined with other businesses' data in a required status report submitted annually to Ohio EPA. All data will be received, compiled and aggregated by the Athens-Hocking Solid Waste District.

#### Why is your business being surveyed?

Your business is located in the Athens-Hocking Solid Waste District is a multi-county solid waste district consisting of Athens and Hocking counties. Ohio's comprehensive solid waste management law requires the Athens-Hocking Solid Waste District to plan and implement programs to reduce and recycle waste for the residential, commercial and industrial sectors. An important part in planning and implementing programs is for the Athens-Hocking Solid Waste District to determine the types and the amounts of solid waste being recycled by industrial facilities located within its jurisdiction. This survey will assist in determining those types and amounts of solid waste being recycled in the Athens-Hocking Solid Waste District's jurisdiction.

#### How are the data being used?

The data helps provide a snapshot of recycling activities, trends and opportunities. It is used to track progress towards local and state recycling goals, determine how much waste is being diverted from Ohio's landfills, assess recycling infrastructure and determine the recycling needs of facilities such as yours. The Athens-Hocking Solid Waste District will combine data from the residential, commercial and industrial sectors to determine the amount of material disposed versus the amount of material recycled in 2015. This will help calculate a recycling percentage for each sector in the Athens-Hocking Solid Waste District and in Ohio.

#### Participation in survey

By participating, your facility will help the Athens-Hocking Solid Waste District meet the requirements of Ohio's state solid waste management plan. Participating also provides your facility with the opportunity to connect directly with the Athens-Hocking Solid Waste District and take advantage of the wide variety of services offered to industrial facilities.

Instructions for completing and returning the survey are included on the attached survey. Please contact Roger Bail at the Athens-Hocking Solid Waste District with any questions regarding this survey. Roger can be reached at <a href="mailto:athenshockingswd@qmail.com">athenshockingswd@qmail.com</a> or (740)753-6885.

Please complete and return the survey by March 24th, 2016.

Thank you for your time and participation.

Respectfully,

Roger Bail, Coordinator Athens-Hocking Solid Waste District P.O. Box 693 Athens, Ohio 45701

#### 2015 INDUSTRIAL RECYCLING/DISPOSAL SURVEY

Instructions: Please complete all of the following survey to the best of your ability. Only include solid waste/recyclable data that was generated within Athens and Hocking Counties during 2015. The information requested is usually available on hauler invoices or receipts from purchasers of recycled materials. Confidentiality: The information you provide on this survey will be used for summary purposes only to identify types of wastes that may be further reduced or recycled. Submitting: Upon completion, please return this survey by March 24, 2016 by mail in the enclosed pre-paid envelope, by fax to 740-753-6919, or by email to <a href="mailto:athenshockingswd@gmail.com">athenshockingswd@gmail.com</a>. If you have any questions, please call Roger Bail, District Coordinator, at 740-753-6885.

Part I - General Information	
Company Name:	
Address:	
Contact Person:	Phone:
Contact Email:	
# of Employees:	SIC Code:

#### Part II -Recycling and Disposal

Table 1 – Data recorded in this table should include all of the solid waste recycled and disposed by your company in 2015 along with the processor/recycler/broker/landfill/transfer station used for each material recycled or disposed. Please provide the known or estimated quantities of each type of material recycled or disposed in tons. The data in the recycled column is used to calculate the Athens-Hocking Solid Waste District's progress in meeting state and local recycling goals. For data conversions assume the following: 2,000 pounds = 1 ton, 3 cubic yards = 1 ton, 7.5 lbs = 1 gallon of used oil, and 8 lbs = 1 gallon of used antifreeze.

Table 1 -Recycling and Disposal in 2015

	Category	Recycled (tons)	Disposed (tons)	Processor/Recycler/Broker Landfill/Transfer Station
Example: Mixed Paper		2.5 tons	0 tons	Lewis Recycling
	Mixed Paper	1		
Paper	Cardboard 1 (use Table 2 if needed)			
	Newsprint			
	Office Paper			
	Other Paper (specify):			
Wood	Wood			
	Sawdust	1		
	Board Ends			
	Pallets			
Metals	Aluminum Beverage Containers			
	Steel Beverage Containers			
	Non-Ferrous Metals (aluminum)			
ale	Ferrous Metals (steel, iron)			
	Copper, Brass	1		
	Appliances (white goods)			/
	Mixed plastics			
	PETE Plastic (#1)			
D	HDPE Plastic (#2)			
Plastics	PVC Plastic (#3)			
	LDPE Plastic (#4)			
	Polypropylene Plastic (#5)		-	
	Polystyrene Plastic (#6)			
	Other Plastics (specify)			

	Category	Recycled (tons)	Disposed (tons)	Processor/Recycler/Broker Landfill/Transfer Station
Glass	Glass			
-	Rubber (not including tires)			
Rubber	Passenger Tires			
be	Light Truck/Semi Tires			
eq.	Tractor Tires		V	
	Commingled (mixed, single stream)			
_	Composites			
Other/Miscellaneous	Textiles (clothing)			
ler/	Food			
3	Yard Waste (grass, brush)			
SCE	Lead Acid Batteries			
all a	Dry Cell Batteries			
ine	Used Oil (residential only)			
5	Used Antifreeze (residential only)			
S	Other:			
	Other:			
	Totals			

The District realizes that industrial businesses may primarily recycle cardboard only but may not have actual weights of the cardboard based on the style of service provided (dumpster service). If you recycle cardboard but do NOT have the actual weights, please use the following table to estimate the volume your company recycles annually. Simply fill in the size of your dumpster (2, 4, 6, 8 or 10 cubic yard), how full it is when picked up on average (as a percentage) and the number of times the dumpster is emptied each week. Then use the formula in the table below to calculate your annual tonnage of cardboard. An example is given to assist you in the calculation. If you have additional dumpsters, simply perform the same exercise for each separate dumpster. The total tons recycled can then be transferred to the cardboard total in Table 1.

Table 2 - Recycled Cardboard Calculator

Dumpster	Size of Dumpster (cubic Yards) (a)	Percentage Full When Picked Up (b)	No of Pickups per Week (c)	Estimated Cardboard Recycled (Tons) (a) x (b) x (c) x 52 / 20
Example	6 cubic yards	80% full	1 time/week	(6 x 0.80 x 1 x 52 / 20) = 12.48 tons
1				
2				
Total	Cardboard Recy	cled in Tons (Enter	in Table 1)	

Part III – Are there materials that are significant components of your waste stream that you would recycle if a market were available for the material? If so, what are the materials and how many tons does your facility generate annually?

Return the survey in the enclosed stamped envelope. If you prefer, you may instead fax it to 740-753-6919 or email it to athenshockingswd@gmail.com.

#### **Materials Cheat Sheet**

#### Food

- Compostable food waste
- Food donations

#### Glass

- Bottles (any color)
- Jars

#### Ferrous Metals

- Mild Steel
- Carbon Steel
- Stainless Steel
- Cast Iron
- Wrought Iron

#### Non-Ferrous Metals

- Aluminum
- Copper
- Brass
- Silver
- Lead
- Misc. Scrap Metals

#### All Other Paper

- Office paper
- Paperboard
- Newspapers
- Folders
- Telephone Books
- Magazines
- Catalogs
- Junk Mail

#### Plastics

- Plastics #1-7
- Plastic Bottles
- Plastic Jugs
- Shrink Wrap
- Plastic Films
- Coat Hangers

#### Textiles

- Fabrics
- Clothes
- Carpet

#### Wood

- Bark
- Woodchips
- Sawdust
- Scrap Wood
- Shipping Pallets
- Boards

#### **Commingled Recyclables**

 This is a mix of several different materials that are placed into one container and hauled for recycling. It can include all or a combination of the materials listed above.

## Examples of materials that fall under "Other"

- Appliances
- Electronics
- Non-hazardous chemicals (solids only)
- Stone/Clay/Sand
- Yard Waste
- Sludge
- Tires
- Any other solid waste that is recycled at your facility

Estimating recycling tonnages — if you are not able to obtain exact tonnages of materials recycled, there are numerous ways to estimate the amount of material recycled in any given year. Below are some common conversion factors that may assist you with your estimations:

Material Type	Density (fb/cu pd)
Mixed Paper Recycling	484
Bullles and Caris	200
Single Stream Recycling	139
Cardboard	100

- (size of container (in cubic yards) X number of collections per month X 12) X density (see table above) = Total Pounds per Year
- . 2,000 pounds = 1 ton

For more assistance, contact your solid waste management district.

## APPENDIX G INDUSTRIAL SECTOR SURVEY RESULTS

Appendix G
Athens-Hocking Solid Waste District
Amount of Industrial Waste Recycled by Standard Industrial Classification (SIC) Category (Tons) as Reported on Industrial Surveys

Source(s) of information: CY 2015 Industrial Survey

Note: Disposal data was not reported. Therefore, Apppendix G tables for disposal and total generation (recycling plus disposal) have been omitted.