2009 State Solid Waste Management Plan
Goals 1 & 2

OSWDO Recommendations
December 14, 2017
To **simplify** the process and give the greatest **flexibility** to obtain the greatest **results**.
The Process

• Several meetings
• Teleconferences
• Contracted with GT Environmental to facilitate and formalize decisions
• Submitted recommendations to OMMAC on August 16, 2017
• Convened a subcommittee to rewrite the goals with the assistance of GT Environmental
Goal 1
Challenge

Access calculations, including the alternative access demonstrations, discourage districts from siting recycling drop-offs in the most beneficial and efficient locations.
Goal 1

Recommended Changes

- Lower the access goal to 80%
- Include a waiver process
- Remove alternative demonstrations (volume-based disposal, curbside start-up, multi-county options)
Chapter 3
Goals for Solid Waste Reduction, Recycling, Reuse, and Minimization

Ohio Revised Code (ORC) Sections 3789.57(G), (H), and (I) requires the state solid waste management plan to "Establish objectives for solid waste reduction, recycling, reuse, and minimization as a basis for the development of state solid waste management plans." ORC Section 3789.58(H) requires the state solid waste management plan to "Establish objectives for solid waste reduction, recycling, reuse, and minimization as a basis for the development of state solid waste management plans." The waiver process added here.

Goal 1: Infrastructure

The SWMD shall ensure that there is adequate infrastructure to collect residential and commercial businesses opportunities to recycle solid waste.

Developing an adequate "infrastructure" is a necessary first step in achieving diversion of waste into recycling, composting, and other alternative waste management approaches. Infrastructure, in the context of this goal, refers to physical facilities, such as drop-off centers, recycling stations, collection of solid waste materials recovery facilities, and others on which, among other things, the facility requires to be built.

The purpose of establishing the infrastructure goals is to develop a comprehensive guidance and to allow SWMDs to develop their resources towards establishing the necessary infrastructure needed to achieve diversion, as opposed to the sometimes difficult and expensive process of assessing diversion due to the potential for gathering accurate recycling information. This goal was originally established in 1991 and has evolved since that time.

At its initial level, the goal requires SWMDs to develop adequate infrastructure to provide at least 90 percent of the population with convenient and reasonable drop-off collection facilities on their property or within a reasonable distance. The goal also recognizes that the state plan may provide for an alternative goal in some circumstances. The standards for waste reduction and recycling goals.

Waiver Process added here.
By the beginning of the fourth year of the planning period, the SWMD will provide opportunities to recycle 90 percent of the solid waste in that county. This option allows a SWMD to decouple financial resources that would otherwise have been allocated to new capital projects and, by implementing recycling activities, will allow the SWMD to maintain solid waste disposal facilities. The option allows the SWMD to increase the recycling rate by reducing the amount of solid waste disposed of in landfills. The SWMD will provide recycling opportunities to no less than 60 percent of the total residential population of the entire SWMD. The SWMD will provide recycling opportunities to no less than 40 percent of the non-residential population. For the purpose of achieving a more cost-effective collection system, this option gives SWMDs the ability to focus on increasing diversion in one county by eliminating some low-performing or high-cost portions of the infrastructure in other counties. The SWMDs are expected to be able to achieve 90 percent of the total SWMD.

Multi-County Option

A multi-county SWMD must demonstrate the following:

- The SWMD will provide recycling opportunities to no less than 60 percent of the total residential population of the entire SWMD.
- The SWMD will provide recycling opportunities to no less than 60 percent of the non-residential population.
- The SWMD will provide recycling opportunities to no less than 40 percent of the non-residential population.
- The SWMD will provide recycling opportunities to no less than 60 percent of the non-residential population, for the equivalent of one less drop-off site if one drop-off site would have the capacity to achieve 80 percent, whichever is greater.)

For the purpose of achieving a more cost-effective collection system, this option gives SWMDs the ability to focus on increasing diversion in one county by eliminating some low-performing or high-cost portions of the infrastructure in other counties. The SWMDs are expected to be able to achieve 90 percent of the total SWMD.

Additional Components of the Demonstration

In addition to the previously outlined items, the SWMD must do the following:

1. Demonstrate that the SWMD will meet the requirements of the standard for infrastructure demonstration:

a. Calculate the solid waste reduction and recycling rate for the residential sector.

b. Demonstrate that the SWMD will meet the following goals:

i. Achieving a 25 percent reduction in the amount of solid waste disposed of in landfills.

2. Demonstrate that the SWMD will maintain the required infrastructure throughout the entire planning period.

Technical Elements of the Demonstration

The following items are various technical elements required in the demonstration of meeting Goal 1. Additional information and details on these and other technical elements, as well as the demonstration as a whole, will be provided in an appendix.

1. Components of the residential infrastructure (i.e., curbside programs and drop-off locations) must include at least five materials from a list specified in the format.

2. The SWMD must demonstrate that the commercial sector has adequate opportunities to collect at least five materials from a list specified in the format.

3. "Credit" for various types of infrastructure will be specified in the format. Default values for curbside and drop-off programs will be provided. In addition, alternate methodologies of establishing participation in drop-off and recycling opportunities will be provided, including a "no-connection" model and a survey methodology.

4. Minimum standards for drop-off locations used in the demonstration meeting Goal 1 are as follows:
   a. The SWMD must measure the following:
      i. Urban drop-off sites must meet a minimum of 60 cubic yards of capacity.
      ii. Rural drop-offs must meet a minimum of 60 cubic yards of capacity.

5. "Credit" for infrastructure in a community is limited to the population of an entire community, up to and including the entire credit for a drop-off that would be needed to achieve providing 100 percent of the residential population with access to recycling infrastructure.
Goal 2
Challenge

The current method of collecting recycling data from commercial and industrial facilities does not yield accurate or useful data which is important in making programming decisions and meeting the waste reduction goals prescribed by the State.
Goal 2
Recommended Changes

• Require processors to register and report recycling data to EPA
  • Increase the reduction rate for res/com to 35%.
  • Eliminate Goal 1.
  • Allow for smaller districts to have an additional 3 years to meet the 35% reduction rate for res/com sector if they have not been able to achieve 25% in the past
  • Allow districts that work together to have an additional 3 years to meet the 35% reduction rate for the res/com sector.
    ★ If reporting is not required stay at 25% with Goal 1 as an option.
• Remove the 66% reduction rate for industry and offer three technical assistance activities.
a. Signs are provided and are adequate to, at a minimum:
   - Direct the public to the site or indicate the location of the site,
   - List the materials that are accepted, and
   - Provide days and hours of operation (particularly important if the site is not a full-time site that is available 24 hours per day, seven days per week).

d. The SWMD has made a reasonable attempt to meet the demand of the population for use of the drop-off site (e.g., provides collection containers with adequate capacity to handle the use of the site, services the site frequently enough given the use of the site, etc.).

5. "Credits" for infrastructure in a community is limited to the population of an entire community, up to and including the entire credit for a drop-off site that would be needed to achieve providing 100 percent of the residential population with access to recycling infrastructure.

Goal 2: Waste Reduction and Recycling Rates

The SWMD shall reduce and recycle at least 25 percent of the solid waste generated by the residential/commercial sector and at least 60 percent of the solid waste generated by the industrial sector.

Residential/Commercial Sector Component

A SWMD must demonstrate that it will reduce and recycle at least 25 percent of the solid waste generated by the SWMD's residential/commercial sector by the third anniversary of the date the solid waste management plan was approved by Ohio EPA. The demonstration in the SWMD's solid waste management plan must detail all existing and new programs that will allow the SWMD to achieve the 25 percent reduction and recycling rate.

A SWMD must also demonstrate that it will maintain a solid waste reduction and recycling rate of at least 25 percent for the remainder of the planning period covered by the approved solid waste management plan.

Industrial Sector Component

A SWMD must demonstrate that it will reduce and recycle at least 60 percent of the solid waste generated by the SWMD's industrial sector by the third anniversary of the date the solid waste management plan was approved by Ohio EPA. The demonstration in the SWMD's solid waste management plan must detail all existing and new programs that will allow the SWMD to achieve the 60 percent reduction and recycling rate.

A SWMD must also demonstrate that it will maintain a solid waste reduction and recycling rate of at least 60 percent for the remainder of the planning period covered by the approved solid waste management plan.

Relationship between Goals 1 and 2

Although SWMDs have the option of working toward an infrastructure-related goal by providing the opportunity to recycle and encouraging participation in available infrastructure, doing so is intended to increase the amount of material being recycled.

Thus, even if a SWMD fulfills Goal 1 in its solid waste management plan, the SWMD is still expected to make progress toward achieving Goal 2.

Therefore, in its solid waste management plan, a SWMD that opts to demonstrate compliance with Goal 1 must also demonstrate that it will achieve increases in its residential/commercial sector reduction and recycling rate over the planning period.

At some point in the future, all SWMDs will be expected to demonstrate meeting a diversion goal. Providing infrastructure to meet Goal 1 is intended to achieve greater diversion. Under a future update of the state plan, Ohio EPA and SWAC will phase out Goal 1. Once that happens, a SWMD that establishes the infrastructure necessary to provide 50 percent of the residential population with the opportunity to recycle will be required to demonstrate compliance with a diversion goal in future solid waste management plans.

Additionally, while preparing the next update of the state plan, Ohio EPA and SWAC will evaluate whether to increase Ohio's target residential/commercial recycling and reduction rate from 25 percent to 35 percent to match the United States Environmental Protection Agency's (U.S. EPA) national target recycling rate.
Goal 3

Recommended Addition

• Must include an analysis of 5 years of historic per capita disposal tonnages.
• Should be evaluated at the state level to buffer local fluctuations.