

Material Management Planning

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Goal of Today's Discussion:

- Provide an overview of
 - The status of landfilling and solid waste planning in Michigan
 - Expected changes in landfilling, recycling and material management planning in the future
 - Existing material management measurement tools

Solid Waste Management Planning

- Does your County have a Solid Waste Management Plan & if so do you know what it controls?
- All Michigan counties have a County Solid Waste Management Plan
 - Either individual or multi county plans
 - DEQ wrote several county plans because county/municipalities and regional agencies declined preparation
- EPA required all states have solid waste plans in 80s
- Michigan's plan was approved in the 80's and includes all County Solid Waste Management Plans

CURRENT Solid Waste Management Plans

- Ensure adequate disposal capacity for all solid waste for a 10-year period
- Control siting of new and expanded disposal areas
- Preempt all local regulation of disposal area design, location, and operation except to the extent allowed by the DEQ-approved County Plan
- Define roles of county and local governments in plan implementation and enforcement & enforceable mechanism
- Include the feasibility of recycling/composting and other local diversion programs
- Identify transportation infrastructure
- Control imports and exports of solid waste for disposal between counties in Michigan

The State of Landfilling in Michigan

- In 2017 a total of 50,604,692 cubic yards of waste were disposed of in Michigan landfills.
- 1,541,054 cubic yards increase since 2016 (~3.1%)
- Enough to pack over 94 Michigan State University football stadiums
- Other Statistics:
 - ~13,600 acres of land accounted for in landfill permits (doesn't account for what's been authorized in the county plan)
 - ~ 67 landfills in Michigan
 - 25% of waste disposed in Michigan landfills comes from out of state

The State of Recycling in Michigan

- Estimated Recycling Rate: 15.3% (~1.5 million tons)
 - Container deposits – 10.2%
 - Takeback program materials (electronics, tires) – 18.9%
 - Organics (leaves, branches, food waste) – 28%
 - Traditional materials (paper, plastic, metal, glass) – 42.8%
 - National average recycling rate is 35%

Five Priorities for Growth

- Update solid waste law to focus on reuse rather than disposal
- Inform and engage residents on the importance of recycling
- Establish funding model to ensure success
- Grow markets in Michigan for recycled materials
- Increase recycling in state facilities

Variety of Updates to Part 115

- Updated materials management planning process
- Increased education and awareness of disposal options and techniques
- Provide standards for recycling and composting facilities
- Update landfill requirements
- Shift focus on developing landfill disposal capacity to more sustainable ways of managing materials like recycling and composting.
- Last draft of statutory changes was over 200 pages and includes provisions to:
 - Add the siting and development of waste utilization facilities, such as recycling facilities, to the local planning process
 - Emphasize the importance of local zoning for siting and developing waste utilization facilities
 - Establish benchmark recycling standards and include measurable recycling goals and objectives in county planning
 - Incorporate ways to increase recycling access and participation in county planning
 - Specify local funding mechanisms that can be used to support recycling
 - Enable municipalities and counties to require haulers to provide recycling services
 - Eliminate restrictions on the flow of waste materials among the counties.
 - Reduce risk to taxpayers by requiring more financial assurance for some material management facilities
 - Provide a means to authorize research and innovative projects outside of the traditional permit model
 - Establish custodial care provisions for landfills that have completed post closure, and allow the DEQ to reduce or extend post closure requirements as appropriate
 - Develop standards of oversight for recycling facilities that ensure a level playing field with landfills and are not overly burdensome for something we want to promote
- Draft statutory changes introduce the material management planning concept for shifting away from landfilling to developing more sustainable practices statewide focused on managing materials

Material Management Planning Recommendations

- Change in the approval process, including default mechanisms & timeframes
- Identify all materials management facilities
- Develop materials utilization goals and objectives
- Focus on utilization capacity
- No import/export authorizations
- Promote regional planning
- Provides for more local control for siting of NEW facilities
- Incorporate ways to increase recycling access, participation

Materials Utilization Goal

- Materials utilization goal is a measurable objective and specific set of goals, determined by a planning area which will be used to demonstrate progress toward material diversion from disposal
- Material utilizations goals include:

- benchmark recycling standard
- recycling rate
- other material utilization goals set by the planning area
- Example: Objective of 45% recycling rate; and an interim goal of 30% by 2025
- Focus on the action steps (deliverables to reach the goal, more than reaching final objective)
- Tailored to the planning area (e.g. if the county or region generates a lot of construction and demolition waste, a goal to reduce/reuse construction materials could be established)

Materials Utilization Goal - Business Opportunities

- Zero Waste & Waste Diversion Programs
 - Work with the Planning Area
- Report your numbers
 - Voluntary Reporting to help show progress
- Create Partnerships
 - Public/Private Partnerships

Benchmark Recycling Standards

- Recycling **access** standards
- **Education** standards

Material Management Planning Update Requirements

- Review material management plan every 5 years
- Ensure compliance with statute
- Evaluate progress towards meeting your Implementation Strategy

Projected Support to Communities

- Planning grants - \$5 million
 - Preparing, implementing, and maintaining local materials management plans
- Local recycling grants - \$8 million
 - Growing recycling access and participation
- Market Development grants - \$2 million
 - Providing equipment, research, and development

Michigan Recycling Reporting

- Part 175 statute - Online system
- Report materials received and shipped
- Mandatory and Voluntary reporters

Types of Reporters

- Mandatory Reporters:
Required by law to report
 - Recycling Establishments
- Voluntary Reporters:
 - Fill in data gaps
 - More complete data
- Mandatory Plus:
 - Identical to mandatory reporters, but includes more material reporting options to on

Benefits of Reporting

- Calculate recycling rate
- Track progress
- Compare year-to-year data
- Demonstrate materials, infrastructure, and geographic areas that need additional focus from state
- Help with market development, infrastructure development
- Compliance with laws

Recycling Reporting Contacts

- Amy Lafferty - laffertya@michigan.gov or 517-242-8324
- Steve Noble - nobles4@michigan.gov or 517-449-6153

Finding More Information

- Priorities – www.michigan.gov/swra
- Planning – www.michigan.gov/deqswmp
- Reporting – www.michigan.gov/recyclingreporting