



## Autumn Hills Recycling and Disposal Facility

Autumn Hills Recycling and Disposal Facility (RDF) is a regional facility that provides safe and convenient disposal services for communities, businesses and industries serving Ottawa County and surrounding areas.

Waste Management's approximately 300 disposal facilities employ the latest advances in landfill technology. This facility is engineered with environmental protection systems that meet or exceed rigorous government regulations and are subject to highly regulated monitoring and reporting requirements. Systems include engineered liners and covers, leachate collection and removal, and landfill gas collection and control.

### Containment Design

Autumn Hills RDF utilizes a single composite, geosynthetic clay liner overlain by a 60 mil high-density polyethylene (HDPE) liner to ensure that waste and leachate are contained and isolated from soil and groundwater. Leachate is a combination of precipitation mixed with the liquid generated by waste as it decomposes.

### Leachate Collection & Treatment

Leachate is managed onsite and pre-treated, then is discharged to a local Waste Water Treatment Plant (WWTP).

### Groundwater Monitoring

Groundwater is monitored at 12 wells, which are upgradient and downgradient of the waste disposal footprint. The groundwater monitoring network is sampled and analyzed quarterly in accordance with the procedures of the facility's groundwater sampling and analysis plan.

### Landfill Gas Management/Renewable Energy

Autumn Hills RDF collects and manages landfill gas through an extensive flare system with over 80 gas wells, which reduces emissions and minimizes odor. The remaining gas is processed and produces over 500,000 MMBTU per year, which is sent to Zeeland Farm Services to process soybeans. North American Natural Resources utilizes the remaining gas to generate electricity for the City of Zeeland.

### Security

Site security is ensured by controlled, limited access to the facility through the gatehouse as well as perimeter fencing and natural barriers. During non-business hours the gate is locked and monitored by 24-hour electronic surveillance.

#### AUTUMN HILLS RDF

700 56th Ave.  
Zeeland, MI 49464  
800 963 4776

#### HOURS OF OPERATION

6:30am – 4:30pm  
Monday – Friday  
7:00am – 11:30 am  
Saturday  
Closed Sunday  
Hours of operation subject to change seasonally.

#### YEAR OPENED

1992

#### PROJECTED LIFE REMAINING

90+ years

#### FACILITY ACREAGE

391 acres

#### PERMITTED FOOTPRINT

152.2 acres

#### REMAINING PERMITTED CAPACITY

20+ million cubic yards

#### APPROXIMATE TONS PROCESSED ANNUALLY

300,000+ tons

#### OWNERSHIP

Waste Management of Michigan, Inc.

#### PERMIT TYPE & PERMIT #

MDEQ Type II Solid Waste Disposal Area – Facility ID 409032

Title V Renewable Operating Permit MI-ROP-N6006-2012

Holland Board of Public Works Discharge Permit ZT-1993-101-14

#### REGULATORY AGENCIES

Michigan Department of Environmental Quality (MDEQ)

#### EMPLOYEES

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## Acceptable Material

- Asbestos – Friable/Non Friable
- Auto Shredder Residue
- Construction & Demolition (C&D) Debris
- Drum Management – Solids/Liquids
- Industrial & Special Wastes – Non-Hazardous
- Municipal Solid Waste (MSW)
- NORM Waste
- Shredded Tires
- Yard Waste – >4" Diam./Tree Stumps

## Unacceptable Material

- Freon Containing Appliances
- Hazardous Waste
- Whole Tires

## Additional Services Provided:

- Solidification

## Risk Mitigation

Waste Management provides the highest level of services, backed with state-of-the-art site design and management systems, to help minimize risks and reduce liabilities.

## Community Partnerships and Involvement

Autumn Hills RDF is proud to be an active supporter of community events and programs that make Ottawa County and its surrounding cities a strong and healthy place to live, work and play.

Autumn Hills RDF is a Wildlife Habitat Council – Wildlife at Work certified site and has been engaged in working with the Zeeland community to protect wildlife and provided recreational activities since the facility was developed. This focus on recreation was included as part of the Host Community Agreement developed between Autumn Hills RDF and the local community. To encourage community recreational fishing, the onsite ponds are stocked with fish for a catch-and-release fishery. Approximately 20 acres are leased for agriculture and 282 acres are managed wildlife habitat. For more information, visit <http://www.wildlifehc.org/registry/waste-management-104>.



### CONTACT

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### COMMUNITY RELATIONS

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### OPERATIONS

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### COMMUNITIES SERVED

Western Michigan