



Michigan Department of Natural Resources

Waste Management Division

SOLID WASTE DISPOSAL AREA CONSTRUCTION PERMIT

This construction permit is issued under the provisions of the Solid Waste Management Act, 1978 PA 641, as amended (Act 641), to permit the construction of a solid waste disposal area (Facility) in the State of Michigan. This permit does not obviate the necessity of obtaining other clearances and permits as may be required by state law.

FACILITY NAME: City of Midland MSW Landfill

GRANTED TO: City of Midland

TYPE OF FACILITY: Type II sanitary landfill

FACILITY ID: 56-000022

COUNTY: Midland

PERMIT NO. 0306

ISSUE DATE: August 3, 1994

EXPIRATION DATE: One year after date of issue unless development of facility begins within the year.

FACILITY DESCRIPTION: The new Type II sanitary landfill known as the City of Midland MSW Landfill consists of 187.14 acres located in the N 1/2, Section 12, Midland Township, Midland County, Michigan. The facility is identified in Attachment A and is fully described in this permit.

RESPONSIBLE PARTY TO CONTACT: Mr. Noel Bush
City of Midland
333 West Ellsworth Street
Midland, Michigan, 48641-1647
517-835-7711.

This permit is subject to revocation by the Director of the Michigan Department of Natural Resources (Director) for any violation of Act 641 under which it is issued or for any violation of the rules authorized thereunder, or any conditions noted. This permit shall be available through the applicant during the entire effective date and remains the property of the Director. Failure to comply with the terms and provisions of this permit may result in legal action leading to civil and/or criminal penalties as stipulated in Act 641. **THIS PERMIT IS NOT TRANSFERABLE UNLESS PRIOR AUTHORIZATION HAS BEEN OBTAINED FROM THE DIRECTOR.**



Russell J. Harding, Deputy Director
Michigan Department of Natural Resources

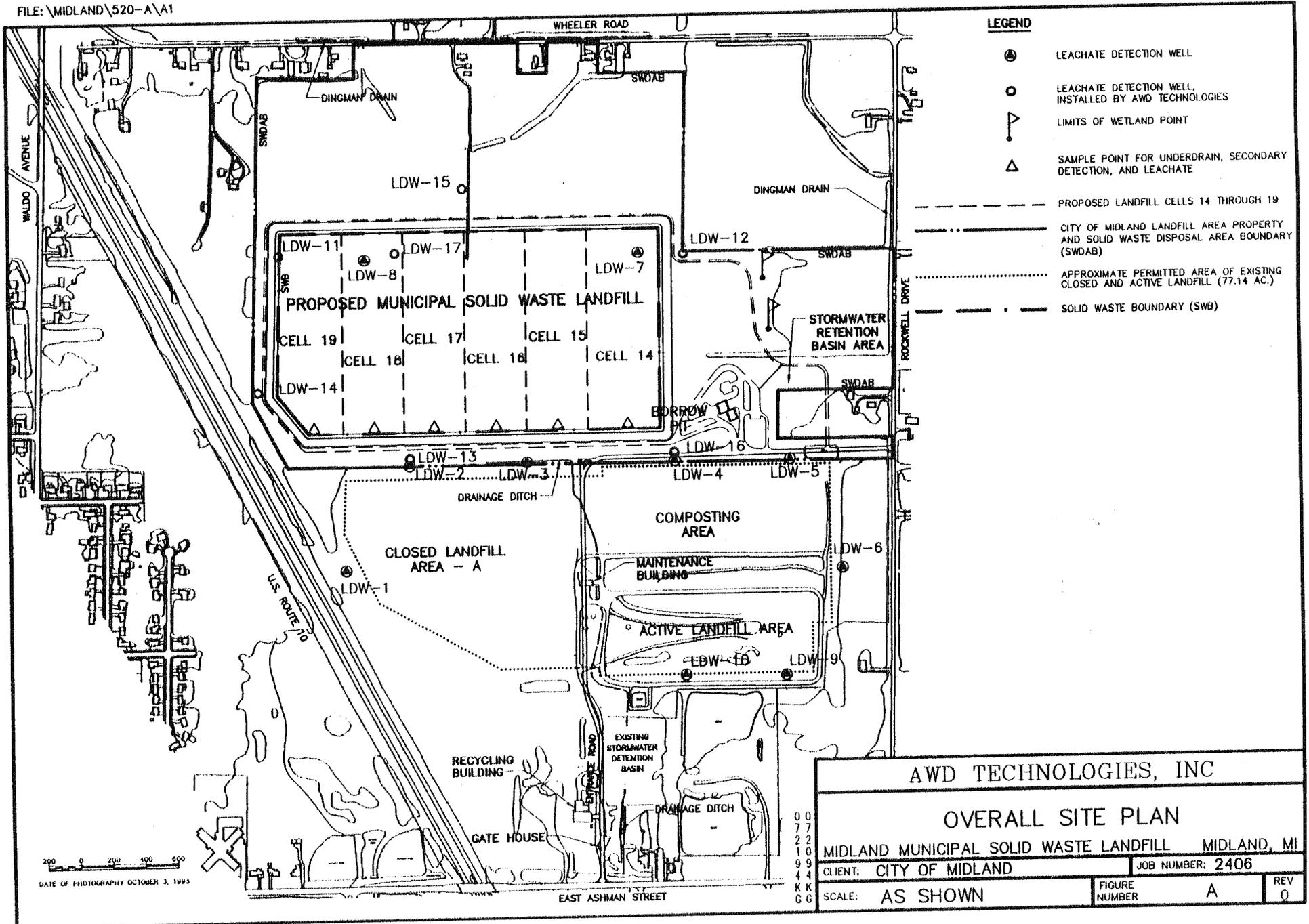
The permittee shall comply with all terms of this permit and the provisions of Act 641 and its rules. This permit includes the permit application and any attachments to this permit.

1. The permittee shall construct the Facility in a manner that will not violate any state or federal law.
2. This permit authorizes the construction of the disposal area as defined in the Application for Solid Waste Disposal Area Construction Permit (Application) documents, dated April 7, 1994 and received by the Michigan Department of Natural Resources (Department) on April 8, 1994 (new disposal area). The new disposal area authorized by this permit shall not be utilized for the disposal of solid waste until an operating license for the disposal area is issued by the Department.
3. The attached map (Attachment A) shows the facility, the area permitted for construction, monitoring points, leachate storage units, site roads, and related appurtenances.
4. Issuance of this permit is based on the assumption that the information submitted in the Application dated April 7, 1994, received by the Department on April 8, 1994, and any subsequent amendments is accurate. Any inaccuracies or deviations found in this information may be grounds for the revocation or modification of this permit and/or other enforcement action. The permittee shall inform the Department's Waste Management Division, Saginaw Bay District Supervisor, of any known inaccuracies and/or any deviation in the information of the Application which would affect the permittee's ability to comply with the applicable rules or permit conditions. This permit is issued based on Department review of the Application. The Application includes the following documents or their approved revisions which are incorporated by reference and become enforceable portions of this permit:
 - a. Application Form PR-5522.
 - b. Fee in the amount of \$675.00
 - c. Environmental Assessment titled, "Midland Municipal Landfill Proposed New Unit," prepared by AWD Technologies and dated March 1994.
 - d. Hydrogeological Report titled, "City of Midland Municipal Solid Waste Landfill Hydrogeologic Report, Volumes I & II," prepared by AWD Technologies, Inc., dated February 1994.
 - e. Surface Water Monitoring Plan titled, N/A .
 - f. Hydrogeological Monitoring Plan titled, "Proposed Monitoring Plan," located in Section 7.0 of the Hydrogeologic Report described in Item 4.d of this license and detection limits dated July 26, 1994 and revised on July 29, 1994.
 - g. Topographic Maps prepared by Abrams Aerial Survey Corp. from photography taken on October 3, 1993.
 - h. Engineering Report titled, "Engineering Report for New Municipal Solid Waste (Type II) Landfill, Volumes I & II," prepared by AWD Technologies, Inc., and dated April 1994.
 - i. Engineering Plans titled, "MDNR Construction Permit Application, Midland Municipal Solid Waste Landfill Prepared for City of Midland, Midland, Michigan, April 1994," by AWD Technologies, Inc., and revised on July 25, 1994.
 - j. Operation Plans titled, "Facility Operations," located in Section 5, Engineering Report.
 - k. Construction Quality Assurance Program titled, "Construction Quality Assurance Plan," located in Appendix D, Engineering Report.

Applicant: City of Midland
Facility Name: City of Midland MSW Landfill
Construction Permit No. 0306
August 1994

- l. Documentation of consistency with the Midland County Solid Waste Management Plan, dated February 7, 1994, located in Appendix A, Engineering Report.
 - m. Subsurface Drain Monitoring Plan N/A.
 - n. Remedial Action Plan titled N/A.
 - o. Explosive Gas Control and Monitoring Plan titled, "Environmental Monitoring and Mitigation," Section 7.0, "Gas Management System," Section 4.8, and "Landfill Gas Migration," Section 4.8.1, located in Engineering Report.
 - p. OTHER DOCUMENTS: "Site Plan for Relocated Stormwater Detention Pond, North Plan," by AWD Technologies, Inc. and dated July 14, 1994.
5. The sampling parameters and monitoring frequencies are outlined in the Hydrogeological Monitoring Plan. The sampling results shall be submitted to the Department's Waste Management Division, Saginaw Bay District Office.
6. **VARIANCES:** The permittee is granted the following variance(s) from Act 641 and/or its rules: None
7. **SPECIAL CONDITIONS:**
- a. The permittee shall submit to the Department's Waste Management Division, Saginaw Bay District, a Surface Water Monitoring Plan, prior to or with the application for an operating license of the first cell authorized for construction by this permit.
 - b. The permittee shall submit to the Department's Waste Management Division, Saginaw Bay District, a plan for the permanent locations of the gas monitoring points prior to or with the application for an operating license of the first cell authorized for construction by this permit.

END OF PERMIT



LEGEND

- ⊙ LEACHATE DETECTION WELL
- LEACHATE DETECTION WELL, INSTALLED BY AWD TECHNOLOGIES
- ◁ LIMITS OF WETLAND POINT
- △ SAMPLE POINT FOR UNDERDRAIN, SECONDARY DETECTION, AND LEACHATE
- PROPOSED LANDFILL CELLS 14 THROUGH 19
- - - - - CITY OF MIDLAND LANDFILL AREA PROPERTY AND SOLID WASTE DISPOSAL AREA BOUNDARY (SWDAB)
- APPROXIMATE PERMITTED AREA OF EXISTING CLOSED AND ACTIVE LANDFILL (77.14 AC.)
- . - . - SOLID WASTE BOUNDARY (SWB)

ATTACHMENT A

200 0 200 400 600
DATE OF PHOTOGRAPHY OCTOBER 3, 1993

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AWD TECHNOLOGIES, INC		
OVERALL SITE PLAN		
MIDLAND MUNICIPAL SOLID WASTE LANDFILL		MIDLAND, MI
CLIENT: CITY OF MIDLAND	JOB NUMBER: 2406	
SCALE: AS SHOWN	FIGURE NUMBER: A	REV: 0