



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 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: Glen's Sanitary Landfill

GRANTED TO: Glen's Sanitary Landfill, Inc.

TYPE OF FACILITY: Type II sanitary landfill

LICENSE NO. 0301

FACILITY ID 45-000002

ISSUE DATE: January 7, 1994

COUNTY: Leelanau

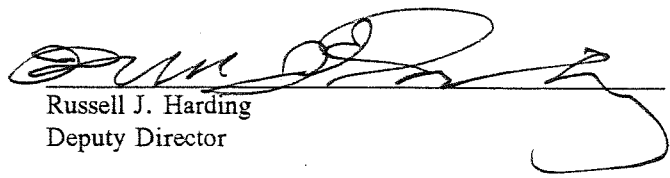
EXPIRATION DATE: One year after date of issue unless development of facility begins within the year.

FACILITY DESCRIPTION: The horizontal expansion and vertical expansion of a Type II sanitary landfill known as the Glen's Sanitary Landfill consists of 133 acres located in the NW 1/4, the NE 1/4, and the N 1/2 of the SE 1/4 of Section 35, Kasson Township, Leelanau County, Michigan (Facility). The Facility is identified in Attachment A and is fully described in this permit.

RESPONSIBLE PARTY TO CONTACT: Mr. George Slater, President
Glen's Sanitary Landfill, Inc.
P.O. Box 6249
Traverse City, Michigan 49685
616-228-5196

This permit is subject to revocation by the Director of the Department of Natural Resources 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 of the Department of Natural Resources. 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 DEPARTMENT DIRECTOR.


Russell J. Harding
Deputy Director

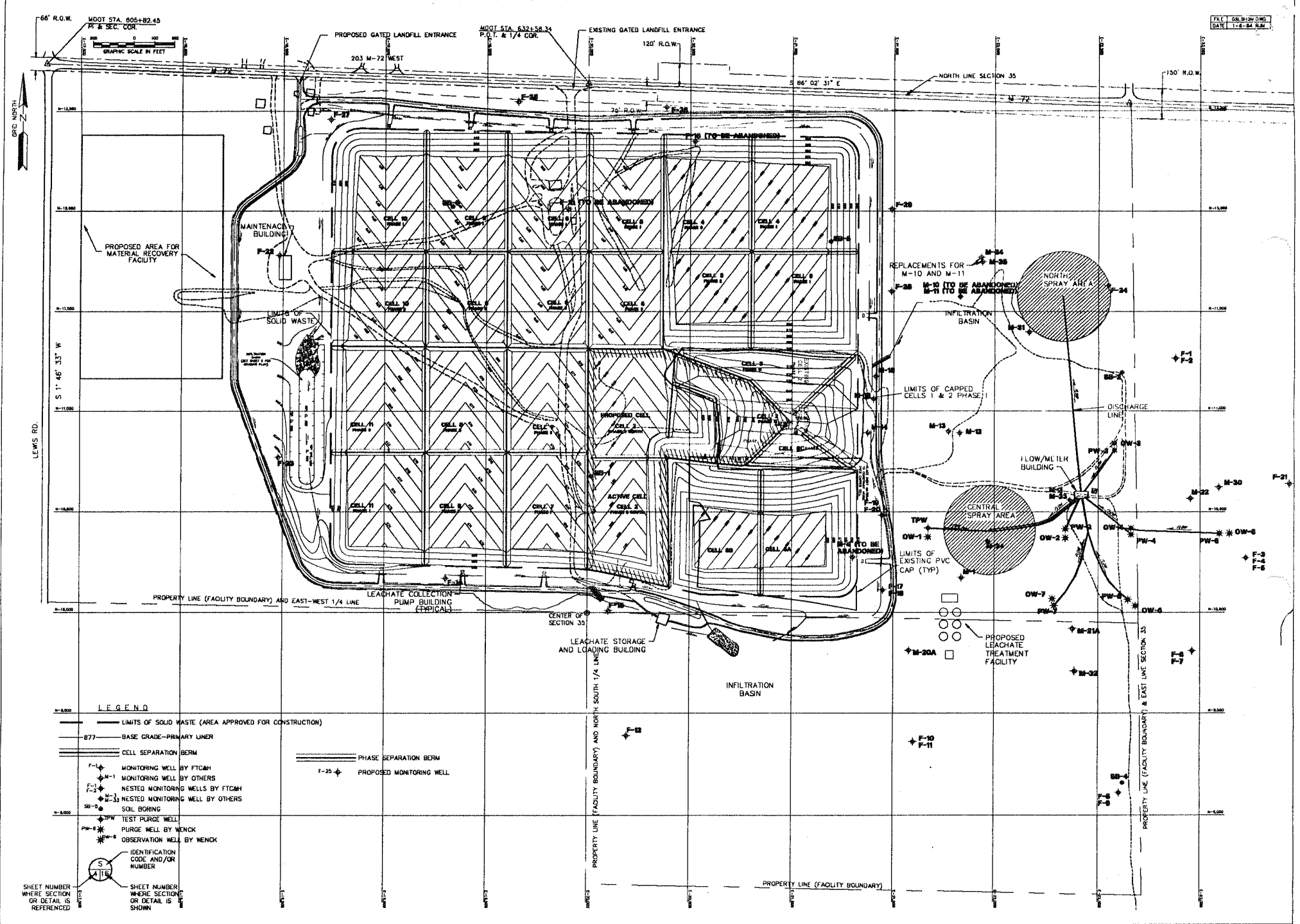
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1. The permittee shall comply with all terms and conditions of this permit and the provisions of Act 641 and its rules. This permit consists of the following, including the permit application and any attachments to this permit.
2. The permittee shall construct the Facility in a manner that will not violate any state or federal law.
3. This permit authorizes the construction of the disposal area as defined in the Application for Solid Waste Disposal Area Construction Permit (Application) for the Glen's Sanitary Landfill, signed by George Slater, President, Glen's Sanitary Landfill, Inc., dated September 3, 1993, and received by the Michigan Department of Natural Resources (Department) on September 10, 1993, (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.
4. The attached map (Attachment A) shows the Facility, the area permitted for construction, monitoring points (groundwater wells, piezometers, surface water, and primary and secondary collection system), leachate storage points, site roads, and related appurtenances.
5. Issuance of this permit is based on the assumption that the information submitted in the Application dated September 3, 1993, received by the Department on September 10, 1993, 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, Cadillac 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, dated September 3, 1993.
 - b. Fee in the amount of \$675.00.
 - c. Environmental Assessment titled, "Environmental Assessment", prepared by Wenck Associates, Inc. and dated September 1993.
 - d. Hydrogeological Report titled, "Hydrogeological Investigation of Glen's Sanitary Landfill, Section 35, Leelanau County", prepared by Fishbeck, Thompson, Carr & Huber and dated September 1989.
 - e. Hydrogeological Monitoring Plan titled, "Groundwater Monitoring Program", prepared by Wenck Associates and dated September 1993.
 - f. Topographic Maps prepared by Wenck Associates and dated August 1993.
 - g. Engineering Report titled, "Technical Specifications for Glen's Sanitary Landfill", prepared by Wenck Associates and dated September 1993.
 - h. Engineering Plans titled, "Glen's Sanitary Landfill", prepared by Wenck Associates and dated August 1993 as amended by revised plansheets 4, 6, 13, and 23 dated December 1993.

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- i. Operation Plans titled, "Landfill Operations", prepared by Wenck Associates and dated September 1993.
 - j. Construction Quality Assurance Plans titled, "Construction Quality Assurance/Quality Control", prepared by Wenck Associates and dated September 1993.
 - k. Documentation of consistency with the Leelanau County Solid Waste Management Plan prepared by Wenck Associates and dated September 3, 1993.
 - m. Remedial Action Plan titled, "Final Remedial Action Plan, Glen's Sanitary Landfill, Inc.", prepared by Wenck and Associates and dated August 1992.
 - n. Technical calculations prepared by Wenck Associates and dated December 1993.
6. In addition to the sampling parameters and monitoring frequencies outlined in the Hydrogeological Monitoring Plan, the permittee shall comply with the groundwater monitoring requirements of R 299.4440 to R 299.4445 before waste can be placed in the disposal area. The sampling results shall be submitted to the Department's Waste Management Division, Cadillac District Office.
7. Section 14(2) of Act 641 required the Director of the Department to determine a course of action regarding licensing consistent with Section 4005 of title 2 of the Solid Waste Disposal Act, 42 U.S.C. 6945. Because the U.S. EPA has not yet approved Michigan's application for adequacy determination of the state's municipal solid waste permit program, and because a decision on the construction permit application is due prior to the date when EPA approval can be expected, this construction permit is conditioned upon and shall not be effective until the occurrence of one of the following events:
- a. EPA approval of Michigan's Solid Waste Program relating to landfill liner design criteria pursuant to the Solid Waste Disposal Act, 42, U.S.C. Section 6901 et seq, or
 - b. EPA approval of the permittee's landfill liner design, pursuant to 40 CFR 258.40(e), or
 - c. Other authorization under the Solid Waste Disposal Act or by court order.

END OF CONDITIONS



LEGEND

- LIMITS OF SOLID WASTE (AREA APPROVED FOR CONSTRUCTION)
- 877 — BASE GRADE—PRIMARY LINER
- ==== CELL SEPARATION BERM
- PHASE SEPARATION BERM
- F-1 — MONITORING WELL BY FTCAH
- M-1 — MONITORING WELL BY OTHERS
- F-1 — NESTED MONITORING WELLS BY FTCAH
- M-1 — NESTED MONITORING WELL BY OTHERS
- S-1 — SOIL BORING
- TPW — TEST PURGE WELL
- PW-1 — PURGE WELL BY WENCK
- OW-1 — OBSERVATION WELL BY WENCK
- IDENTIFICATION CODE AND/OR NUMBER

SHEET NUMBER WHERE SECTION OR DETAIL IS REFERENCED

SHEET NUMBER WHERE SECTION OR DETAIL IS SHOWN