

Michigan Department of Natural Resources and Environment
Environmental Resource Management Division

SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 *et seq.*, and authorizes the operation of this solid waste disposal area (Facility) in the state of Michigan. This license does not obviate the need to obtain other authorizations as may be required by state law.

FACILITY NAME: Glen's Sanitary Landfill, Inc.

LICENSEE/OPERATOR: Glen's Sanitary Landfill, Inc.

FACILITY OWNER: Glen's Sanitary Landfill, Inc.

PROPERTY OWNER: Glen's Sanitary Landfill, Inc.

FACILITY TYPE(S): Municipal Solid Waste Landfill

FACILITY ID NUMBER: 418012

COUNTY: Leelanau

LICENSE NUMBER: 9304

ISSUE DATE: February 11, 2011

EXPIRATION DATE: February 11, 2016

FACILITY DESCRIPTION: The Glen's Sanitary Landfill, Inc., a municipal solid waste landfill, consists of 401.46 acres located in the North 1/2 and North 1/2 of the Southeast 1/4, Section 35, T23N, R1W, Kasson Township, Leelanau County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: The areas identified as Cell 2 Phase II N (6.0 acres); Cell 2 Phase II South (6.0 acres); Cell 2 Phase III (3.2 acres); Cell 3 Phase 1 (6.0 acres); Cell 3 Phase II (4.5 acres); Cell 3 Phase III (3.3 acres); and Cell 4 Phases I and II (10.3 acres), total 39.3 acres. Unconstructed areas with financial assurance upon construction, certification, and approval by the Department of Natural Resources (DNRE) are Cell 5 (9.0 acres) and Cell 6 (7.3 acres), totaling 16.3 acres.

RESPONSIBLE PARTY: Mr. Jim Palmer, District Manager
Glen's Sanitary Landfill, Inc.
518 East Traverse Highway
Maple City, Michigan 49664-5196
989-705-8930

RENEWAL OPERATING LICENSE: This License Number 9304 supersedes and replaces Solid Waste Disposal Area Operating License Number 9129 issued to Glen's Sanitary Landfill, Inc. on December 6, 2005.

This license is subject to revocation by the Director of the Michigan Department of Natural Resources and Environment, if the Director finds that this Facility is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, Part 115, or the rules promulgated under Part 115. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties pursuant to Part 115. This license shall be available through the licensee during its term and remains the property of the Director.

THIS LICENSE IS NOT TRANSFERABLE.



Steven R. Sliver, Chief, Solid Waste and Land Application Section
Environmental Resource Management Division

Licensee: Glen's Sanitary Landfill, Inc.
Facility Name: Glen's Sanitary Landfill, Inc.
Operating License Number: 9304
Issue Date: February 11, 2011

The licensee shall comply with all terms of this license and the provisions of Part 115 and the administrative rules implementing Part 115 (Part 115 Rules). This license includes the license application and any attachments to this license.

1. The licensee shall operate the Facility in a manner that will prevent violations of any state or federal law.
2. The following portions of the Facility are authorized to receive solid waste by this license:

ACTIVE PORTIONS NOT AT FINAL GRADE: The area(s) identified as Cell 2 Phase II North (6.0 acres); Cell 2 Phase II South (6.0 acres); Cell 2 Phase III (3.2 acres); Cell 3 Phase 1 (6.0 acres); Cell 3 Phase II (4.5 acres); Cell 3 Phase III (3.3 acres); and Cell 4 Phases I and II (10.3 acres) were authorized to receive waste by the previous license. This area's total acreage is 39.3 acres.

3. The following portions of the Facility **WILL BE** authorized to receive solid waste by this license following approval by the Michigan Department of Natural Resources and Environment (DNRE) of construction certification:

UNCONSTRUCTED AREA(S) WITH FINANCIAL ASSURANCE: The area(s) identified as Cell 5 (9.0 acres) and Cell 6 (7.3 acres), totaling 16.3 acres, are included in the calculation of financial assurance as required by Section 11523 of Part 115. This portion(s) of the Facility shall be authorized to receive waste, as part of this license, when acceptable certification is submitted to the DNRE, as required by Section 11516(5) of Part 115, and determined by the DNRE to be consistent with Part 115 and the Part 115 Rules. The certification shall verify that construction of this area(s) was in accordance with the Construction Permit(s) listed in Item 8 of this license, Part 115, and the Part 115 Rules.

4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license:

a. **UNCONSTRUCTED AREA(S) WITHOUT FINANCIAL ASSURANCE:** The area(s) identified as Cell 7 (10.2 acres); Cell 8 (10.1 acres); Cell 9 (11.7 acres); Cell 10 (11.8 acres); Cell 11 (10.0 acres); Cell 12 (10.1 acres); and Cell 13 (11.7 acres) are not constructed and are not included in the calculation of financial assurance as required by Section 11523 of Part 115. This area's total acreage is 75.6 acres.

b. **CLOSED UNIT(S) OR A PORTION OF A UNIT WHERE THE FINAL COVER HAS BEEN CERTIFIED CLOSED AND ACCEPTED BY THE DNRE:** The following unit(s) and/or portion(s) are closed:

EXISTING UNIT(S): The unit(s) identified as Cell 1 had final closure certified on January 1994. This certification was reviewed and approved by the DNRE on March 1994. This area's total acreage is 1.8 acres.

5. The attached map (Attachment A) shows the Facility, the area permitted for construction, monitoring points, leachate storage units, site roads, other disposal areas, and related appurtenances.
6. Issuance of this license is conditioned on the accuracy of the information submitted by the Applicant in the Application for License to Operate a Solid Waste Disposal Area (Application) received by the DNRE on November 23, 2010, and any subsequent amendments. Any material or intentional inaccuracies found in that information is grounds for the revocation or modification of this license and may be grounds for enforcement action. The licensee shall inform the DNRE's Environmental Resource Management Division (ERMD), Cadillac District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on the DNRE's review of the Application, submitted by Glen's Sanitary Landfill, Inc., for the Glen's Sanitary Landfill, Inc., dated November 23, 2010, revised January 4, 2011. The Application consists of the following:
 - a. Application Form EQP 5507.
 - b. Application fee in the amount of \$2,500.00.
 - c. Certification of construction by N/A.

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d. Waste Characterization: N/A.

e. Restrictive Covenant:

The March 22, 2000, restrictive covenant on 401.46 acres is on file at the Leelanau County Register of Deeds recorded on April 27, 2000, as Liber 541 pages 531-533. A copy is on file with the DNRE.

f. Perpetual Care Fund Agreement, established as an escrow account, signed by Mr. Robert Durkin, Vice President, Glen's Sanitary Landfill, Inc., on April 18, 1997, was executed by the DNRE on August 5, 1997.

g. Financial Assurance.

i. Financial Assurance Required:

The amount of financial assurance required for this Facility was calculated based on the calculation worksheet form EQP 5507A entitled, "Form A, Financial Assurance Required," and is \$9,047,025.00.

The Facility has provided financial assurance totaling \$9,829,827.00, based on the requirements of Section 11523 of Part 115, consisting of a combination of the Perpetual Care Fund established under Section 11525 of Part 115, bonds, and the financial capability of the Applicant as evidenced by a financial test. The financial assurance mechanisms used by the Facility are summarized below in Items ii and iii, respectively.

ii. Financial Assurance Provided Via a Perpetual Care Fund:

- (1) The amount of the required financial assurance can be reduced pursuant to Section 11524 of Part 115, if the amount of money in the Perpetual Care Fund plus the amount of the reduced financial assurance equals the amount of financial assurance required in Section 11523 of Part 115 and is approved by the DNRE.
- (2) The Perpetual Care Fund Agreement statement showed a balance of \$1,829,827.00 in the Facility's Perpetual Care Fund as of October 31, 2010. Of this amount, the DNRE has granted the request to use \$1,829,827.00 toward the total amount of financial assurance required.

iii. Financial Assurance Provided Via Bond:

The following financial assurance has been received from the Applicant to meet the amount of financial assurance required:

Surety Bond	\$8,000,000.00
Total Amount Received:	\$8,000,000.00

iv. Financial Assurance Updates Required:

For Type II landfills, the financial assurance cost estimates of closure and postclosure activities must be updated annually and the corresponding requisite amount of financial assurance must be adjusted annually for the costs of inflation. The corresponding financial assurance, as adjusted for inflation and other factors, is due on February 11, 2012, and each year thereafter.

8. The following documents approved with Construction Permit Number(s) 0301 issued to Glen's Sanitary Landfill, Inc. on January 7, 1994, are incorporated in this license by reference:

- a. Engineering Plans dated August 1993 and April 1997, with revisions dated September 2010.
- b. Hydrogeological Report dated September 1993.

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- c. Environmental Assessment dated September 1993.
 - d. Remedial Action Plan dated August 1992.
9. The following additional documents, approved since the issuance of the construction permit(s) referenced in Item 8, are incorporated in this license by reference:
- a. Hydrogeological Monitoring Plan dated and revised March 2007.
 - b. Construction Quality Assurance Plan dated November 2010.
 - c. Leachate Recirculation Plan, July 31, 2001, with amendments dated April 11, 2002, and November 9, 2005.
 - d. Interim Gas Management Plan dated August 2010.
 - e. Leachate Evaporator Plans dated 2009.
 - f. Revised Surcharge Work plan for Cells 5A, B, and C, dated July 6, 2005.
10. Consent Order/Judgment Number: Consent Order Number 641-245-2-92 entered on March 25, 1992, is incorporated into this license by reference.
11. The licensee shall repair any portion of the certified liner or leachate collection system that is found to be deficient or damaged during the term of this license unless determined otherwise by the DNRE.
12. The licensee shall have repairs to any portion of the certified liner or leachate collection system recertified by a registered professional engineer in accordance with R 299.4921 of the Part 115 Rules and approved by the DNRE before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the DNRE's ERMD, Cadillac District Supervisor, for review and approval.
13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated March 2007. The sampling analytical results shall be submitted to the DNRE's ERMD, Cadillac District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the ERMD, Cadillac District Supervisor. Proposed revisions must be submitted in a format specified by the DNRE.
15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by the ERMD, Cadillac District Supervisor.
16. Modifications to approved engineering plans that constitute an upgrading, as defined in R 299.4106a(l) of the Part 115 Rules, may be approved, in writing, by the ERMD, Cadillac District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the ERMD, Cadillac District Supervisor.
18. Leakage Control Criteria:
- The active portions of the unit(s) authorized to receive waste by this license is an unmonitorable unit(s) designed with a double-liner systems that is in compliance with the provisions of R 299.4422(3) of the Part 115 Rules and that is capable of detecting and collecting leakage through the primary composite liner. The action flow rate for each unit containing a leak detection system is 5 gallons/acre/day. The response flow rate for each unit containing a leak detection system is 25 gallons/acre/day.
19. **VARIANCES:** None.
20. **SPECIAL CONDITIONS:**
- The licensee shall place a compacted layer of not less than six inches of earthen material, unless an exemption is granted, of suitable cover material on all exposed solid waste by the end of each working day, as required by R 299.4429(1) of the Part 115 Rules. Suitable cover shall be either uncontaminated soil or an alternate cover approved by the ERMD, listed in Item i, below. Alternate cover shall be restricted as indicated in Item ii and applied as per the approved operational plan submitted by the licensee.

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- i. Approved alternate cover shall be any of the following:

Product/Waste Material

Fabrisoil

- ii. The above materials are approved for daily cover when used in the following manner:

- (1) The licensee shall use the material as daily cover only. The material cannot be used for road building or fill in other areas of the Facility's operation.
- (2) The licensee shall maintain copies of the testing performed on Class B and Class C materials in the facility operating record.
- (3) The licensee shall only stockpile material in a secure manner within the active cell.
- (4) This approval does not preclude the licensee from disposing of the material as waste in the active fill area instead of using the material as daily cover.
- (5) This approval shall immediately become void upon documentation by the DNRE that the alternative cover is not being used in accordance with listed conditions, that the alternative cover is not providing the necessary protection, that the material no longer meets the alternative daily cover guidelines, or that the process producing the waste material has changed.
- (6) If the material does not meet the guidelines from Attachment 2 of Operational Memo 115-10, Revision 2, for nonvolatiles, the licensee shall ensure that fugitive dust emissions from this material do not occur. Acceptable methods to ensure fugitive emissions do not occur are:
 - (a) Implement a schedule to wet down material; or
 - (b) Cover the material with a tarp; or
 - (c) Apply an approved foam or other appropriate commercial dust control product.
- (7) This approval to use alternative cover shall expire upon expiration of this license.

21. **TERM:** This license shall remain in effect until its expiration date, unless revoked or continued in effect, as provided by the Administrative Procedures Act, 1969 PA 306, as amended, or unless superseded by the issuance of a subsequent license.

END OF LICENSE

