



Michigan Department of Environmental Quality
Office of Waste Management and Radiological Protection

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: Hiawatha Shores Landfill

LICENSEE/OPERATOR: Hiawatha Shores Landfill, Inc.

FACILITY OWNER: Hiawatha Shores Landfill, Inc.

PROPERTY OWNER: Hiawatha Shores Landfill, Inc.

FACILITY TYPE(S): Municipal Solid Waste Landfill

FACILITY ID NUMBER: 485207

COUNTY: Schoolcraft

LICENSE NUMBER: 9412

ISSUE DATE: October 24, 2014

EXPIRATION DATE: October 24, 2019

FACILITY DESCRIPTION: The Hiawatha Shores Landfill, a municipal solid waste landfill, consists of 44.5 acres located in the SW 1/4 of the NE 1/4 of Section 4, SE 1/4 of the NE 1/4 of Section 4 and the NW 1/4 of the SE 1/4 of Section 4, T42N, R14W, Doyle Township, Schoolcraft County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Phase 1, totaling 4.35 acres.

RESPONSIBLE PARTY: Mr. Stanley Zellar, Sr.
Hiawatha Shores Landfill, Inc.
3098N County Road 436
Gulliver, Michigan 49840
(906) 341-2001

RENEWAL OPERATING LICENSE: This License Number 9412 supersedes and replaces Solid Waste Disposal Area Operating License Number 9232 issued to Hiawatha Shores Landfill, Inc. on October 9, 2009.

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality, 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 Section
Office of Waste Management and Radiological Protection

Licensee: Hiawatha Shores Landfill, Inc.
Facility Name: Hiawatha Shores Landfill
Operating License Number: 9412
Issue Date: October 24, 2014

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 Phase 1 were authorized to receive waste by the previous license. This area's total acreage is 4.35 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 Environmental Quality (MDEQ) of construction certification: None.
4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license:

UNCONSTRUCTED AREA(S) WITHOUT FINANCIAL ASSURANCE: The area(s) identified as Phases 2,3,4,5 and 6 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 22.05 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 MDEQ on September 29, 2014, 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 MDEQ's Office of Waste Management and Radiological Protection (OWMRP), Upper Peninsula District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on the MDEQ's review of the Application, submitted by Hiawatha Shores Landfill, Inc., for the Hiawatha Shores Landfill, dated September 16, 2014, and revised on October 8, 2014. The Application consists of the following:

- a. Application Form EQP 5507.
- b. Application fee in the amount of \$250.
- c. Certification of construction by N/A.
- d. Waste Characterization: N/A.
- e. Restrictive Covenant:

The Hiawatha Shores Landfill, Inc. restrictive covenant on 26.9 acres is on file at the Schoolcraft County Register of Deeds recorded on December 8, 2009, as Liber 185 pages 518-521. A copy is on file with the MDEQ.

- f. Perpetual Care Fund Agreement, established as a trust account, signed by Stanley Zellar, President, Hiawatha Shores Landfill, Inc., on October 6, 2008, was executed by the MDEQ on November 18, 2008.

Licensee: Hiawatha Shores Landfill, Inc.
Facility Name: Hiawatha Shores Landfill
Operating License Number: 9412
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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 \$1,219,191.30.

The Facility has provided financial assurance totaling \$1,219,323.00, 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:

The Perpetual Care Fund Agreement statement showed a balance of \$38,323.00 in the Facility's Perpetual Care Fund as of August 29, 2014. Of this amount, the MDEQ has granted the request to use \$38,323.00 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:

Irrevocable Letter of Credit	\$1,181,000.00
Total Amount Received:	\$1,181,000.00

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 October 24, 2015, and each year thereafter.

8. The following documents approved with construction permit 0394, issued to the Hiawatha Landfill, Inc. on October 10, 2001, are incorporated in this license by reference:
- a. Hiawatha Shores Landfill, Inc., Environmental Assessment, prepared by Bittner Engineering, Inc., dated April 2001, and amended August 31, 2001.
 - b. Hiawatha Shores Landfill, Inc., Engineering Report, prepared by Bittner Engineering, Inc., dated April 2001, and amended August 31, 2001.
 - c. Hiawatha Shores Landfill, Inc., Hydrogeological Report, prepared by Bittner Engineering, Inc. dated April 2001, and amended June 15, 2001.
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:
- Hiawatha Shores Landfill, Hydrogeological Monitoring Plan, prepared by Engineering and Environmental Solutions, LLC dated January 2014 and approved by the MDEQ on February 3, 2014.
10. Consent Order/Judgment Number: N/A.

Licensee: Hiawatha Shores Landfill, Inc.
Facility Name: Hiawatha Shores Landfill
Operating License Number: 9412
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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 MDEQ.
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 MDEQ before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the MDEQ's OWMRP, Upper Peninsula District Office Supervisor, for review and approval.
13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated January 2014. The sampling analytical results shall be submitted to the MDEQ's OWMRP, Upper Peninsula and Gaylord District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the OWMRP, Upper Peninsula District Supervisor. Proposed revisions must be submitted in a format specified by the MDEQ.
15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by the OWMRP, Upper Peninsula 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 OWMRP, Upper Peninsula District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the OWMRP, Upper Peninsula District Supervisor.
18. Leakage Control Criteria:

The active portions of the unit(s) authorized to receive waste by this license is a monitorable unit(s) designed with a double-liner system 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 secondary collection system is twenty five gallons/acre/day.
19. **VARIANCES:** None.
20. **SPECIAL CONDITIONS:** N/A.
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

ATTACHMENT A

NO.	DATE	DESCRIPTION
1	01/15/2010	ISSUED FOR PERMITTING
2	02/10/2010	REVISED TO ADD MONITORING WELLS
3	03/10/2010	REVISED TO ADD MONITORING WELLS
4	04/10/2010	REVISED TO ADD MONITORING WELLS
5	05/10/2010	REVISED TO ADD MONITORING WELLS
6	06/10/2010	REVISED TO ADD MONITORING WELLS
7	07/10/2010	REVISED TO ADD MONITORING WELLS
8	08/10/2010	REVISED TO ADD MONITORING WELLS
9	09/10/2010	REVISED TO ADD MONITORING WELLS
10	10/10/2010	REVISED TO ADD MONITORING WELLS
11	11/10/2010	REVISED TO ADD MONITORING WELLS
12	12/10/2010	REVISED TO ADD MONITORING WELLS

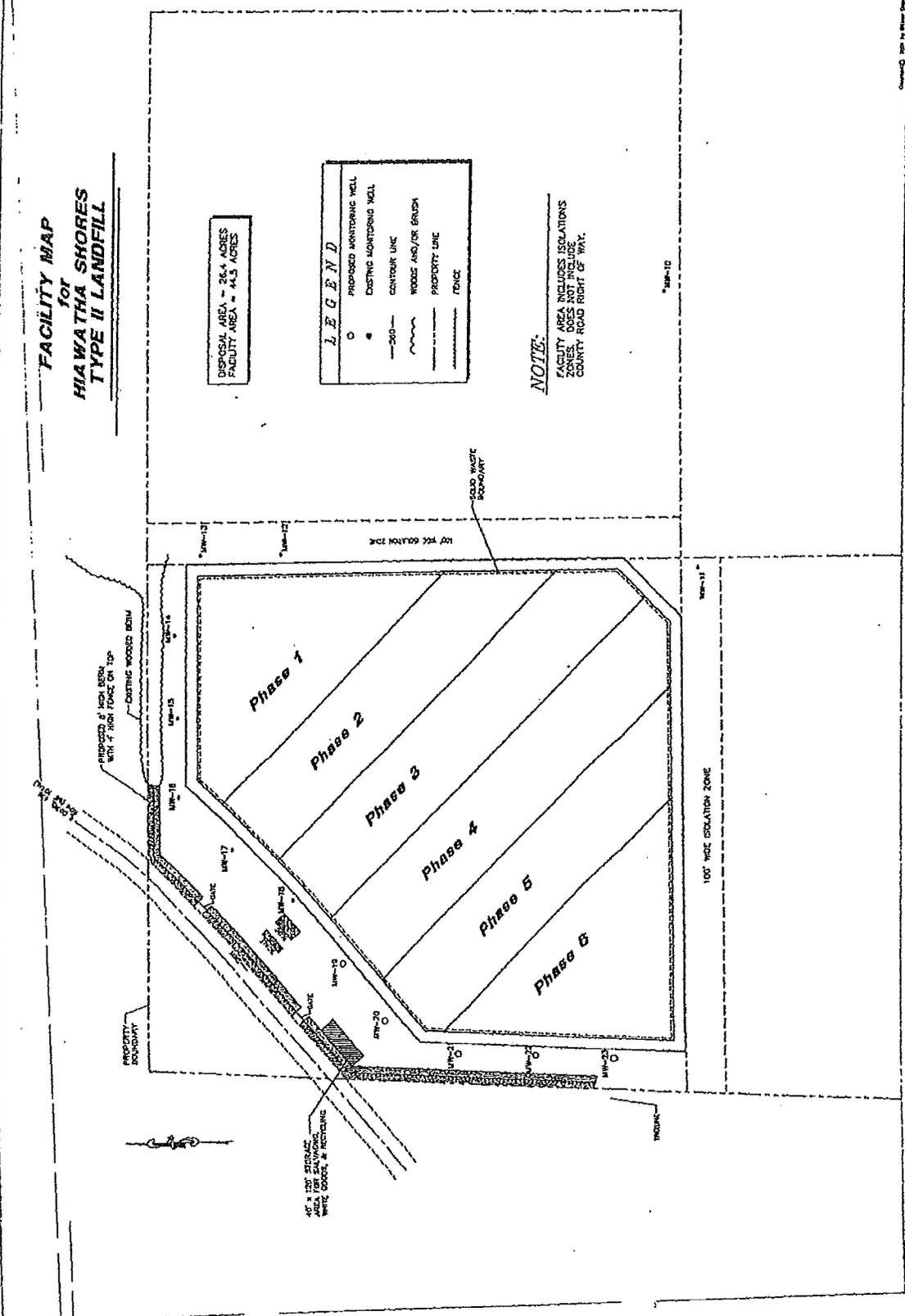
FACILITY MAP for HIAWATHA SHORES TYPE II LANDFILL

DISPOSAL AREA = 26.4 ACRES
FACILITY AREA = 44.3 ACRES

LEGEND

- PROPOSED MONITORING WELL
- EXISTING MONITORING WELL
- 200' CONTOUR LINE
- ~ WOODS AND/OR BRUSH
- PROPERTY LINE
- FENCE

NOTE:
FACILITY AREA INCLUDES ISOLATIONS AND 100' WIDE ISOLATION ZONE COUNTRY ROAD RIGHT OF WAY.



DESIGN OF
HIAWATHA SHORES LANDFILL
DARRYL MOORE
PHYSICAL LAYER



BITTNER ENGINEERING, INC.
11111 W. 111th Street
Overland Park, KS 66211
Phone: 913-241-1111
Fax: 913-241-1112
www.bittnereng.com

SCALE: AS SHOWN
DATE: 10/10/2010
PROJECT: HIAWATHA SHORES LANDFILL