



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: City of Livonia Landfill

LICENSEE/OPERATOR: City of Livonia

FACILITY OWNER: City of Livonia

PROPERTY OWNER: City of Livonia

FACILITY TYPE(S): Type III Construction and Demolition Landfill

FACILITY ID NUMBER: 470471

COUNTY: Wayne

LICENSE NUMBER: 9450

ISSUE DATE: July 30, 2015

EXPIRATION DATE: July 30, 2020

FACILITY DESCRIPTION: The City of Livonia Landfill, a Type III construction and demolition landfill, consists of 16.70 acres located in the north half of Section 27, Township 1 South, Range 9 East, at 32500 Glendale Avenue, Livonia, Wayne County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Identified in Item 2 and attachment A of this license.

RESPONSIBLE PARTY: Mr. Kevin L. Maillard, P.E., Director of Public Works  
City of Livonia  
12973 Farmington Road  
Livonia, Michigan 48150  
734-466-2561

**RENEWAL OPERATING LICENSE:** This License Number 9450 supersedes and replaces Solid Waste Disposal Area Operating License Number 9268 issued to City of Livonia on May 18, 2010.

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: City of Livonia  
Facility Name: City of Livonia Landfill  
Operating License Number: 9450  
Issue Date: July 30, 2015

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 "Existing Active Area" were authorized to receive waste by the previous license. This area's total acreage is 5.38 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:

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

**OTHER DISPOSAL AREAS:** The portion of the Type III landfill unit described as an "Existing Closed Area" had final closure certified on April 27, 2004. This certification was reviewed and approved by the MDEQ on April 8, 2011.

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 April 20, 2015, 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), Southeast Michigan 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 City of Livonia, for the City of Livonia Landfill, dated April 15, 2015, and revised with a July 21, 2015, receipt date. 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 NA.
  - d. Waste Characterization: N/A.
  - e. Restrictive Covenant:

The City of Livonia Landfill restrictive covenant on 15.5 acres is on file at the Wayne County Register of Deeds recorded on March 26, 2001, as Liber 33490 pages 395-397. A copy is on file with the MDEQ.

- f. Perpetual Care Fund Agreement, established as an escrow account, signed by Mr. Jack E. Kirksey, Mayor, City of Livonia on November 5, 1998, was executed by the MDEQ on December 2, 1998.

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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 includes a bond of \$20,000.00 per acre of licensed landfill, and the Perpetual Care Fund requirement. The amount of financial assurance required for this facility is \$323,927.56.

The Facility has provided financial assurance totaling \$377,527.56, 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, and the bonding requirements of Section 11523 (1)(a) of Part 115. 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 \$67,527.56 in the Facility's Perpetual Care Fund as of March 31, 2015.

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	\$310,000.00
Total Amount Received:	\$310,000.00

8. This previously "grandfathered" facility did not have a construction permit,, but the following documents are incorporated in this license by reference:

- a. Engineering plan titled "City of Livonia Landfill Grading Plan" marked as approved on March 1, 1979.
- b. Engineering plan titled "City of Livonia Landfill," sheet 1, dated October 1982, revised December 9, 1988.
- c. Final Hydrogeological Report, dated June 1, 1982, prepared by BCA Engineering, Inc.
- d. Hydrogeological Monitoring Plan and Surface Water Monitoring Plan, dated October 13, 1995 and revised January 8, 1999.
- e. Engineering plans showing fill progression dated September 18, 1990, September 30, 1993, December 6, 1993, January 24, 1994, June 18, 1996, and February 25, 1998.
- f. Leachate Management Site Plan consisting of the letter from EMCON dated October 15, 1996, and letters from Mr. Robert Beckley, dated October 17, 1996, October 21, 1996, and October 24, 1996.
- g. Response Action Plan, dated April 15, 1998, revised July 10, 1998, prepared by GZA.
- h. Request for Alternative Quarterly Groundwater Monitoring Parameters, dated July 17, 1998, prepared by GZA, and approved August 28, 1998.
- i. Engineering plan titled "Leachate Conveyance System Plan," sheets 1 and 2, dated April 30, 1998, with last revision dated April 10, 2000, for "as-built" information.

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- j. Engineering Plan titled "Truck Scale Facility," sheets A1-A3, dated April 8, 1999, last revision for A1 dated May 10, 2000, sheets S1-S2, dated April 8, 1999, and sheet M1 dated April 8, 1999, last revision, dated May 10, 2000.
  - k. Engineering plan sheet number 1 titled "City of Livonia Type III Landfill, Final Clay Cover System, Top View of Low Permeability Clay Liner," dated May 30, 2001.
  - l. Engineering plan sheet number 2, titled "Final Clay Cover System, Top of Protective Soil/Vegetative Layer," dated May 30, 2001, and revised in October 2001.
  - m. Engineering plan sheet number 3 titled "Final Clay Cover System, Livonia, Michigan, Area with Protective Soil," dated May 30, 2001, and revised in October 2001.
  - n. Engineering plan sheet number 4 titled "Final Clay Cover System, Livonia, Michigan, Details," dated May 30, 2001, and revised on March 25, 2004.
  - o. Engineering plan sheet number 1 titled "City of Livonia Type III Landfill, Stormwater Management - Final Grading Plan," dated November 13, 2002.
  - p. Engineering plan sheet number 1, titled "Permit and Proposed Grades, City of Livonia Type III Landfill," dated November 27, 2001.
  - q. Engineering plan sheet number 2 titled "Site Plan, City of Livonia Type III Landfill," dated May 30, 2001, with revision dates of July 25, 2001, and November 27, 2001.
  - r. "Revised Engineering Design Report, City of Livonia Type III Landfill," dated March 2004. The documents listed in Items 9.i through 9.n are consolidated in this document.
  - s. Engineering document titled "Perimeter Landfill Gas Monitoring Plan, City of Livonia Type III Landfill," prepared by Golder Associates, Inc., dated May 2008, received by the DEQ on May 28, 2008, and conditionally approved by the DEQ on June 25, 2008.
  - t. Letter request (with attached diagrams numbered 1 and 2, titled "Glendale Storage Yard" and "Details" respectively) with the subject "City of Livonia, Type III Landfill, Final Cover DPW Yard, Livonia, Michigan," prepared by Golder Associates, Inc., dated August 3, 2009, received by the DEQ on August 5, 2009 and conditionally approved on September 17, 2009.
  - u. Statistical Monitoring Plan dated January 2010.
  - v. Engineering report titled 2001 Final Closure Construction, City of Livonia Type III Landfill, Wayne County, Michigan, prepared by CTI and Associates, Inc., dated April 2004 and revised with supplemental letter certification with the subject "City of Livonia Type III Landfill, WDS No. 470471, Final Cover Construction Certification, Livonia, Michigan", prepared by Golder Associates, Inc., dated November 23, 2010, and further supplemented with field data, dated April 29, 2010 and November 19, 2010, submitted by Golder Associates, Inc., via electronic mail on April 4, 2011..
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: N/A.
10. Consent Order/Judgment Number: N/A.
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

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waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the MDEQ's OWMRP, Southeast Michigan District Office Supervisor, for review and approval.

13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated October 13, 1995, and revised January 8, 1999 and the Statistical Monitoring Plan dated January 2010. The sampling analytical results shall be submitted to the MDEQ's OWMRP, Southeast Michigan District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the OWMRP, Southeast Michigan 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, Southeast Michigan 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, Southeast Michigan District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the OWMRP, Southeast Michigan District Supervisor.
18. Leakage Control Criteria:

This Type III Facility is a monitorable unit and, therefore, does not need to be in compliance with the leakage control criteria of R 299.4422 of the Part 115 Rules.

19. **VARIANCES:** The licensee is granted the following variance(s) from Part 115 and/or the Part 115 Rules:

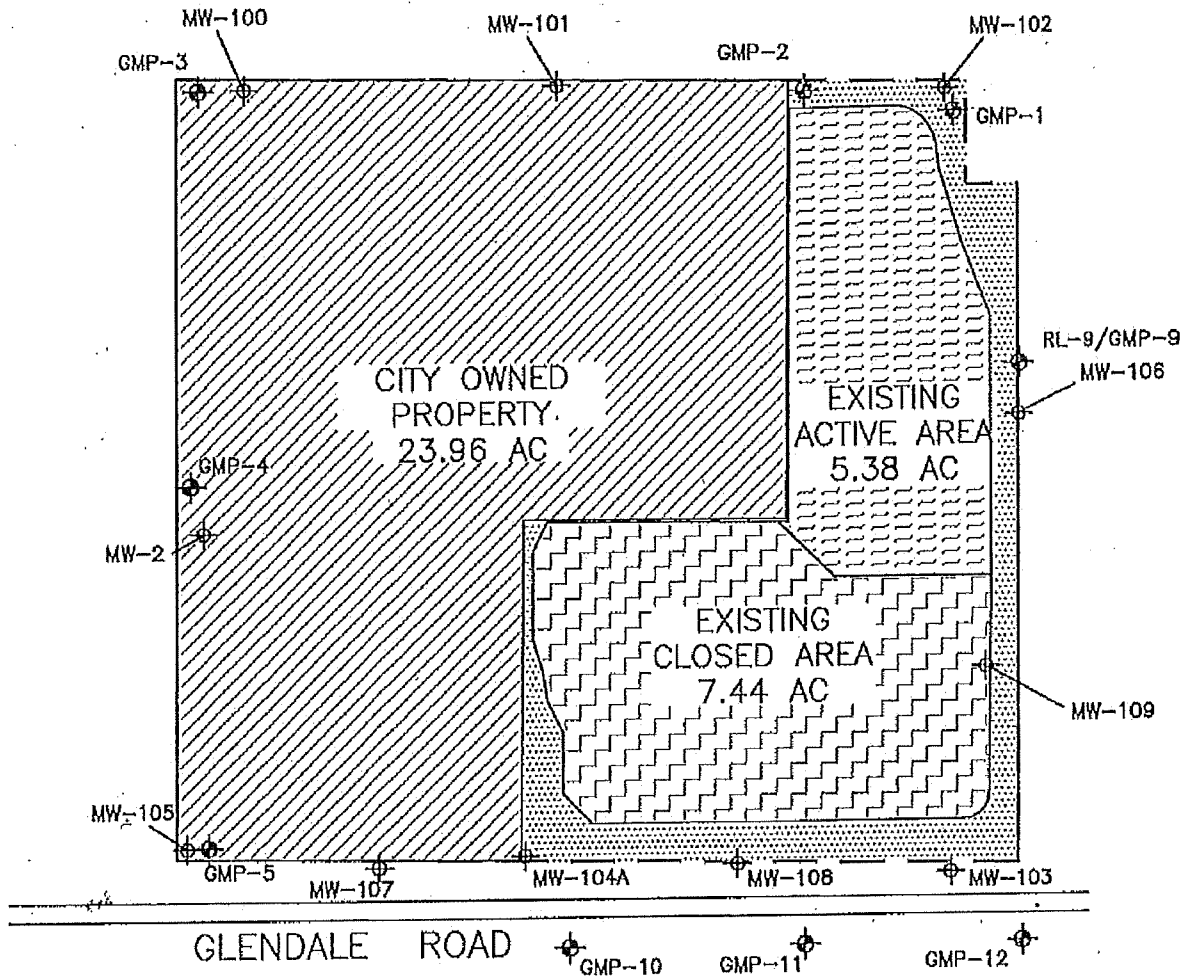
The licensee has been granted a variance from the daily cover requirement. The licensee shall apply cover on a weekly basis on all exposed solid waste.

20. **SPECIAL CONDITIONS:**

- a. The Facility is limited to accepting construction and demolition material and waste classified in the waste characterization (street sweepings and stormwater catch basin material) dated February 1, 1996.
  - b. As part of the quarterly sampling event, the licensee shall measure the static water level in each monitoring well to ensure representation of groundwater flow direction at the landfill.
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.

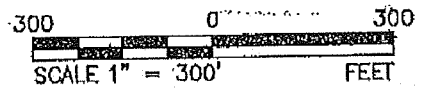
**END OF LICENSE**

# Attachment A



## LEGEND

	PROPERTY BOUNDARY
	PERIMETER LFG MONITORING PROBE
	MONITORING WELL
	5.38 AC. ACTIVE AREA NOT AT FINAL GRADE
	3.88 AC. ISOLATION AND ANGLARY AREA
	7.44 AC. CLOSED AREA AT FINAL GRADE
	23.96 AC. CITY OWNED PROPERTY



## CITY OF LIVONIA

Department of Public Works - Engineering Division  
33000 Civic Center Drive  
Livonia, Michigan 48154  
(734) 466-2570 Office, (734) 466-2195 Fax

CITY OF LIVONIA LANDFILL AREA  
GLENDALE AVE. EAST OF FARMINGTON RD.

DATE: 4/15/2015 JOB NO.:

SCALE: 1" = 300'

SHEET 1 OF 1