

Michigan Department of Natural Resources and Environment  
Waste and Hazardous Materials 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: 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: 9268

ISSUE DATE: May 18, 2010

EXPIRATION DATE: May 18, 2015

FACILITY DESCRIPTION: The City of Livonia Landfill, a Type III construction and demolition landfill, consists of 16.7 acres located in the North half of Section 27, Township 1 South, Range 9 East at 32500 Glendale Avenue, city of Livonia, Wayne County, Michigan, as identified in Attachment A and fully described in this license.

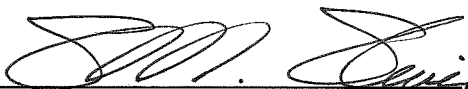
AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Identified in Item 2 and attachment A of this license.

RESPONSIBLE PARTY: Mr. Kevin Maillard, Director of Public Works  
City of Livonia  
12973 Farmington Road  
Livonia, Michigan 48150  
734-466-2606

**RENEWAL OPERATING LICENSE:** This License Number 9268 supersedes and replaces Solid Waste Disposal Area Operating License Number 9073 issued to City of Livonia on February 3, 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, Storage Tank and Solid Waste Section  
Waste and Hazardous Materials Division

Licensee: City of Livonia  
Facility Name: City of Livonia Landfill  
Operating License Number: 9268  
Issue Date: May 18, 2010

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" was 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 Natural Resources and Environment (DNRE) of construction certification: None.
4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license:

**UNCLOSED AREA(S):** The area(s) identified as the portion of the Type III landfill unit described as an Existing Closed Area had final closure certified on April 27, 2004, but have not had final cover certification approved by the DNRE. This area's total acreage is 7.44 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 January 13, 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 Waste and Hazardous Materials Division (WHMD), Southeast Michigan 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 City of Livonia, for the City of Livonia Landfill, dated January 11, 2010, and revised January 25, 2010 and April 16, 2010. 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 DNRE.

- 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 DEQ on December 2, 1998.

f. 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 \$310,000.00.

The Facility has provided financial assurance totaling \$369,586.57, 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 \$59,586.57 in the Facility's Perpetual Care Fund as of November 30, 2009. Of this amount, the DNRE has granted the request to use \$59,586.57 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	\$310,000.00
Total Amount Received:	\$310,000.00

8. This "grandfathered" Facility does not have a construction permit. The Facility's first license (Number 6631) was issued on September 17, 1980, pursuant to the repealed Garbage and Refuse Disposal Act, 1965 PA 87. 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.
- 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.

Licensee: City of Livonia  
Facility Name: City of Livonia Landfill  
Operating License Number: 9268  
Issue Date: May 18, 2010

- i. 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.
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 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 WHMD, Southeast Michigan District 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. The sampling analytical results shall be submitted to the DNRE's WHMD, Southeast Michigan District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the WHMD, Southeast Michigan 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 Waste and Hazardous Materials Division, 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 WHMD, Southeast Michigan District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the Waste and Hazardous Materials Division, 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.

Licensee: City of Livonia  
Facility Name: City of Livonia Landfill  
Operating License Number: 9268  
Issue Date: May 18, 2010

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.

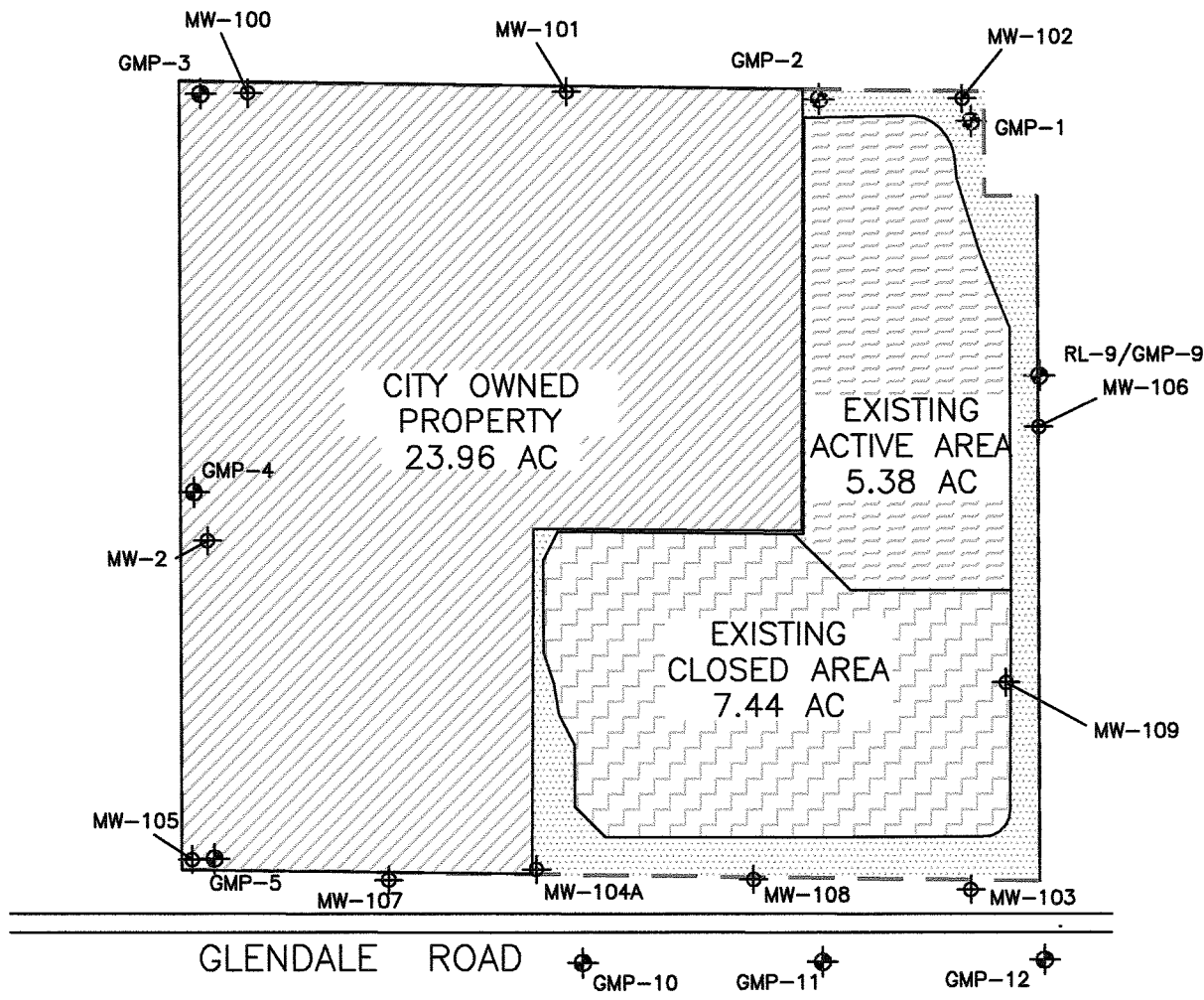
20. **SPECIAL CONDITIONS:**

- 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 monitor 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.

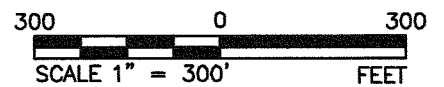
**END OF LICENSE**

File: K:\Projects\08x-Projects\083-88385-Livonia General Eng\E-CLOSED AREA\REV 0\DWG\08388385E001.dwg Layout: CAS PROBE User: DCross Apr 16, 2010 - 2:17pm



**LEGEND**

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



SCALE	AS SHOWN
DATE	4/16/10
DESIGN	JAB
CADD	BJK
CHECK	JAB
REVIEW	PTS

TITLE	<b>ATTACHMENT A TYPE III SOLID WASTE LANDFILL LIVONIA, MICHIGAN</b>	
CITY OF LIVONIA	FIGURE	<b>1</b>

FILE No.	08388385E001	
PROJECT No.	083-88385	REV. 0