

Fact Sheet – Canadian Landfill Methane Regulations

December 2025 Update



Applicability

The Regulations came into force on December 12, 2025, and apply to landfills that:

- Disposed MSW after January 1, 2010, and have more than 450,000 tonnes in place, or
- Disposed more than 20,000 tonnes of MSW in 2025 or any subsequent calendar year and have more than 200,000 tonnes in place.

The Regulations do not apply to non-contiguous portions of a landfill that are under final cover and ceased to accept waste before January 1, 2010.

Methane Generation Assessment



ECCC's Landfill Methane Modelling Tool must be used to report a landfill's annual methane generation:

- An initial assessment for methane generation in 2025 is due by **June 10, 2026**.
- Annual assessments are due by June 1 each year thereafter.

Compliance obligations depend on a landfill's open/closed status and the results of the initial assessment:

- Open landfills below 664 tonnes of methane will only be required to perform annual generation assessments until generation exceeds 664 tonnes of methane or the landfill closes.
- Open landfills that exceed 664 tonnes of methane will have further compliance obligations.
- Closed landfills that exceed 1,000 tonnes of methane will have further compliance obligations.
- Closed landfills below 1,000 tonnes of methane will have no further compliance obligations.

Conversions



- 664 tonnes of methane annually = 136 cfm of LFG at 50% methane by volume.
- 1,000 tonnes of methane annually = 205 cfm of LFG at 50% methane by volume.

Compliance Obligation Timelines



Compliance obligation timelines depend on the results of the initial methane generation assessment:

- January 1, 2028 – In portions of open and closed landfills where LFG recovery wells were in operation on December 12, 2025, and methane generation for the entire landfill is greater than 1,000 tonnes.
- January 1, 2029 – In all landfilled areas of open and closed landfills where methane generation for the entire landfill is greater than 1,000 tonnes.
- January 1, 2035 – In all landfilled areas of open landfills where methane generation for the entire landfill is between 664 and 1,000 tonnes.
- Request for deferral – Compliance obligations may be delayed by up to two years if delays related to permitting, equipment procurement/delivery/installation will prevent timelines from being met.

Compliance obligations include **LFG recovery and monitoring**, and **methane leak detection and repair**.

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Landfill Gas Recovery and Monitoring Obligations



LFG venting is prohibited, with limited exceptions, including:

- To avoid off-site subsurface migration.
- In portions of a landfill with final cover and methane less than 25% by volume.

LFG must be recovered to a methane destruction device capable of achieving a 98% efficiency, including:

- Flares (enclosed/open)
- Energy recovery devices (boilers/engines/turbines)
- Treatment systems (RNG/CNG)
- Biofilter (only if methane is less than 25% by volume)

LFG recovery wellheads must be monitored monthly to confirm:

- Negative pressure (vacuum)
- Oxygen less than 5% by volume
- Presence of LFG flow

Methane Emissions Detection and Repair Obligations



Equipment emissions monitoring is required three times per year to identify methane leaks at LFG components.

- A methane leak is defined as a concentration greater than 500 ppmv.
- Leaks must be repaired within 90 days after it was first detected.

Surface emissions monitoring (SEM) is also required three times per year in portions of the landfill where waste has not been disposed in the previous 12 months. Approved methods include:

- Ground-based surveys (USEPA Method 21), or
- Drone-based surveys with ground-level sampling tubes (USEPA OTM 51).

An exceedance is defined as a surface methane concentration above:

- 500 ppmv at any single location, and
- 25 ppmv average concentration in a zone of 4,500 m².

Surface exceedances must be eliminated within six months of the initial detection and re-monitored to confirm the exceedance is eliminated.

Annual Reporting



An annual report must be submitted by June 1 of each calendar year summarizing all compliance obligations activities completed in the previous calendar year.

For additional information, contact Comcor Environmental Limited at 519-621-6669 or LMR@comcor.com.

This fact sheet was prepared based on the LMR posted on 2025-12-16, and should be read in conjunction with the full LMR and RIA available at ECCC's [Landfill Methane Regulations website](#).