

CANADA (CAN_S_002)

Through MARS, UNEP's International Methane Emissions Observatory (IMEO) turns satellite data into methane action. MARS is the only public global satellite-based system alerting governments and companies of extreme methane emissions. Using 30+ satellite instruments, combined with expert analysis and AI models, MARS detects major emission events and enables rapid response.



 **LAST UPDATED**
1 July 2026

 **SOURCE ID**
CAN_S_002

 **COUNTRY**
Canada

 **COORDINATES**
51.48142°, -112.40669°

 **SECTOR**
Oil & Gas

 **SOURCE TYPE**
Valve

 **TOTAL NUMBER OF PLUMES DETECTED**
1

 **DATE OF FIRST DETECTION**
10 April 2026

 **DATE OF REPORTED MITIGATION**
17 April 2026

 **ESTIMATED TOTAL VOLUME OF EMISSIONS**

175 tonnes

 **SAME CLIMATE IMPACT AS**

~3,368 cars

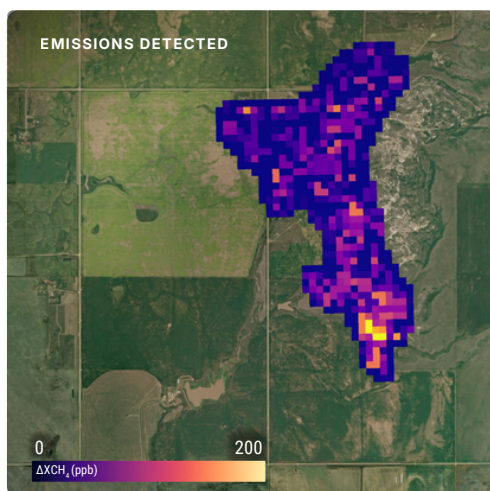
DRIVEN FOR A YEAR

DETECTION & ACTION

THE CAUSE AND THE SOLUTION

The emissions were caused by a failure on a ball valve connected to the pigging equipment. The operator conducted repaired the valve, stopping the emissions. On-ground verification with OGI camera confirmed that the leak had ceased.

The image shows a plume detected by NASA's EMIT in Canada, on 10 April 2026. No further emissions have been detected at the location since 17 April 2026.



In implementing MARS, UNEP collaborates with various institutional partners, including the World Bank, International Energy Agency, the Climate and Clean Air Coalition, Universitat Politècnica de València, the Netherlands Institute for Space Research, the Committee on Earth Observation Satellites and the Copernicus Atmosphere Monitoring Service.

Based on satellite data used by MARS, it is not possible to confirm the presence of minimal methane emissions at a given location. Rather, this data can confirm the absence of emissions at levels higher than a given satellite's detection limit, which varies based on the technology, ground conditions and the weather.