



A Landfill Gas Utilization Company

IGRS

Glenridge Quarry Landfill - St. Catharines, ON

Integrated Gas Recovery Services
A Landfill Gas Utilization Company

P.O. Box 100
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THE CHALLENGE:

The Glenridge Quarry Landfill Site is a closed landfill located in St. Catharines. Since the landfill was established in 1976, over 1.3 million tonnes of waste have been disposed. Approximately 70% of the fill is municipal/residential waste and 30% commercial/industrial waste. The landfill was closed at the end of 2001.

As the landfill matured, odours generated from gases produced by the decomposition of waste affected nearby residents and businesses. The source of these odours was determined to be four manholes on the main effluent sewer. After field testing, a landfill gas collection and flaring system was designed and constructed in 1996. The system connects the four leachate collection system manholes and nineteen landfill gas wells, withdraws the gas through two gas blowers, and combusts the gas in a controlled, fully enclosed, high temperature flare.

In 1996, the City of St. Catharines sought qualified companies to commission, operate, maintain and monitor the landfill gas collection and flaring system with the contract ultimately awarded to IMS



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THE SOLUTION:

A rigorous monitoring schedule is required to ensure that the system is functioning in prime condition due to the odour sensitivity at the landfill and the restrictive operating conditions placed on the system by the MOE with regard to yearly odour occurrences.

The landfill gas collection system is equipped with a SCADA system which allows IGRS to remotely monitor the overall performance of the system. Regular maintenance and field monitoring is also conducted on the site. All mechanical parameters are checked on a weekly basis. The well field and manhole systems are monitored and adjusted on a biweekly schedule. Spot monitoring and adjustment of the well field takes place weekly with the mechanical system monitoring.

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IGRS is currently developing a potential landfill gas utilization project for the site since acquiring the franchise right for landfill gas utilization at Glenridge Quarry Landfill.

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Landfill Gas Collection System at
Glenridge Quarry Landfill

