

Lambton Facility Update

Friday, October 7, 2011

On-site Control Measure Update

Over the past week the Clean Harbors Lambton Facility continued its efforts to reduce the odours emanating from the leachate areas. Staff applied odour control products to the active landfill areas in efforts to further reduce this odourous source. The facility also began applying a foam product to the active landfill area to seal the surface and prevent odours from escaping.

Odour Control Product Application



On October 4, a large application of a yucca base product was applied to the active landfill leachate in order to control the odours. This product is a broad-spectrum bacterial blend, featuring ten specially selected substances designed to liquefy, metabolize and deodorize landfill waste.

The product was formulated for increased spectrum of odour control, including hydrogen sulphide and fatty acids, for the ability to degrade petroleum hydrocarbons (crude oil, diesel and gasoline) found in leachate. This product includes a special oxygenating biocatalyst and *Yucca schidigera*, for improved penetration and activity.

The facility also continued pumping Zymeflow into the tarped leachate pond. The Zymeflow is a water-based surfactant/enzyme combination that emulsifies and demulsifies hydrocarbons. This product oxidizes pungent sulphurous odour from the leachate and eliminates it relatively fast through a mild oxidation process.

Foam Application

On October 7, the facility began foaming the active landfill area. The foam product produces an impermeable, flexible membrane that seals a surface to prevent odours from escaping the active landfill area. The product utilizes the foam as a distribution method for latex. After the foam has



been applied, the air bubbles begin to collapse and the latex coagulates to form a continuous flexible membrane that adheres to the surface and seals in odours.



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Air Monitoring

The facility has implemented an enhanced air monitoring program to assess ambient air levels during periods when the community is experiencing odours that are emitting from the facility. The samples were collected at locations based on odours and were collected upwind and downwind simultaneously.

Notification was given to the Ministry of the Environment (MOE) one hour prior to sample collection as a provision for MOE to conduct audits or witness the collection of samples. Samples were collected on September 22, 27, 29 and October 6 and 7. On September 27 and October 6 the Ministry of the Environment collected their own samples at the same time and location as the Clean Harbors samples. Results are pending from an off-site laboratory, and once available, will be posted on the Clean Harbors Lambton Facility website at www.cleanharbors.com/locations/lambton.



Air Sampling

