



January 12, 2016

Dear All,

You are receiving this communication to keep you apprised of the status of the ongoing hydrogeological investigation and environmental monitoring associated with the closed Waste Management Landfill property.

The Environmental Monitoring Plan (EMP) is defined by the conditions included in the Environmental Compliance Approval (ECA) for the site, and includes environmental monitoring of surface water and groundwater quality, among other requirements. Under the ECA Conditions, Waste Management has notified the MOECC District Manager of results from recent sampling events conducted as a part of the fall 2015 environmental monitoring event. We are providing, for your information, the notice supplied to MOECC on January 8, 2016.

The results outlined in this notice are related to a detection of one of the parameters analyzed, 1,4 dioxane, at a surface water monitoring location on the landfill site. The new detection was for 1,4 dioxane, reported at a concentration of 2.1 µg/L. This is well below the Provincial Water Quality Objective (PWQO) of 20 µg/L for this constituent in surface water, and does not pose any risks to human health or the environment beyond the site.

All results will be evaluated and reported on in the semi-annual environmental monitoring report.

Regards,

Ross Wallace
Manager, Richmond Landfill
Waste Management of Canada Corporation

Encl.



MEMORANDUM

DATE: January 8, 2016
TO: Brian Kaye, District Manager, Ministry of the Environment and Climate Change (MOECC)
CC: Victor Castro, Kyle Stephenson and Peter Taylor (MOECC)
Chris Prucha, Bill McDonough, Jim Forney and Tim Haaf (WM)
FROM: François Richard (BluMetric)
PROJECT NO: C-B12501-00-00
SUBJECT: Notification of 1,4 Dioxane Detection in Surface Water, WM Richmond Landfill, Town of Greater Napanee

This memorandum is provided on behalf of Waste Management of Canada Corporation as required by Condition 8.8 of Environmental Compliance Approval (ECA) No. A371203 for the Richmond Landfill, Town of Greater Napanee, Ontario. This requirement is outlined in the Environmental Monitoring Plan (EMP) for the site¹, implemented on September 1, 2015 on an interim basis as ordered by the Environmental Review Tribunal (ERT) Order dated July 21, 2015.

Condition 8.8 of the ECA for the site requires that any monitoring result that detects 1,4 dioxane at or above the detection limit of 1 µg/L at any groundwater well or domestic well at which 1,4 dioxane has not been detected in the past or at any surface water monitoring location shall be reported to the District Manager within 48 hours of determination of the 1,4 dioxane detection.

As part of the fall monitoring event, surface water samples were collected on November 23, 2015 from the monitoring locations specified in the EMP. The analytical result for sampling location S3, located in Marysville Creek upstream of the culvert crossing County Road 10 (Deseronto Road), was below the laboratory's reporting limit of 1 µg/L for 1,4 dioxane. A blind field duplicate sample was also collected at this location and submitted to the laboratory for quality assurance and quality (QA/QC) purposes. QA/QC results were not compiled until January 7, 2016 for inclusion in the fall semi-annual monitoring report currently

¹ *Environmental Monitoring Plan, WM Richmond Landfill, Town of Greater Napanee, Ontario, rev. No.04*, prepared by BluMetric Environmental Inc., dated August 2015



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in preparation. During compilation of these data it was revealed that a concentration of 2.1 $\mu\text{g/L}$ was detected in the field duplicate sample from location S3. A data quality review was immediately initiated with the laboratory to evaluate the discrepancy between regular sample and corresponding field duplicate. The evaluation conducted by the laboratory ruled out possible laboratory interference or other analytical errors and confirmed the initial results on January 8, 2016.

While this result is well below the Provincial Water Quality Objective (PWQO) for 1,4 dioxane in surface water of 20 $\mu\text{g/L}$ ², it is reportable to MOECC under Condition 8.8 of the ECA.

We trust the above information is satisfactory. If you have any questions or need further information regarding the completed work please do not hesitate to contact the undersigned.



Francois Richard, Ph.D. P.Geo.
Senior Hydrogeologist

² *Water Management*, Ontario Ministry of Environment and Energy, July 1994.