



TOXICS SUBSTANCE REDUCTION PLAN SUMMARY - Addendum

CRH Canada Group Inc. – Mississauga Cement Plant

**2391 Lakeshore Road West
Mississauga, ON
L5J 1K1**

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1. Introduction

Commissioned in 1956, the CRH Canada Mississauga Plant is one of the largest and most environmentally responsible suppliers of cement in Canada. The Plant employs approximately 185 people and has an annual capacity of 1.5 million tonnes of cement, plus 0.5 million tons of GranCem. Over the course of the last 59 years, the Mississauga Plant has witnessed ongoing technological advancements designed to meet the increasing needs of the marketplace, to improve environmental performance, to enhance employee safety and to mitigate impacts on the local community.

CRH Canada Group Inc. is one of the country's largest vertically integrated building materials and construction companies. With 3,000 employees, CRH Canada manufactures cement, aggregates and ready-mix concrete and provides construction services to many of Canada's largest infrastructure projects.

CRH Canada Group Inc. is a member of the CRH Group of companies, a leading diversified international building materials group, employing 91,000 people at 4,000 operating locations in 37 countries worldwide. CRH is the largest building materials company in North America and the third largest worldwide and is committed to improving the built environment through the delivery of superior materials and products for the construction and maintenance of infrastructure, housing and commercial projects. A Fortune 500 company, CRH is a constituent member of the FTSE 100 index and the ISEQ 20 with American Depositary Shares listed on the NYSE.

This Toxics Reduction Plan Summary Addendum has been developed to include the addition of Methyl-Ethyl-Ketone as a reportable substance to the facility's Toxics Reduction Plan. The section on General Facility Information has been updated to reflect a change in ownership and contact information. This summary makes reference to, and should be reviewed in conjunction with, Toxics Reduction Plan Summary produced in December of 2012 by CRH Canada Group Inc. (Holcim (Canada) Inc. at the time of the 2012 report).

2. Reporting Criteria

Section 3(1) of the Toxics Reduction Act (TRA) specifies the criteria requiring the preparation of a toxic substance plan.

These criteria are as follows:

3. (1) The owner and the operator of a facility shall ensure that a toxic substance reduction plan is prepared for a toxic substance in accordance with this Act and the regulations if all of the following criteria are met:

1. The facility belongs to a class of facilities prescribed by the regulations.

2. The number of persons employed at the facility exceeds the number of persons prescribed by the regulations.

3. The toxic substance is used or created at the facility and the amounts of the substance that are used or created meet the criteria prescribed by the regulations.

4. Such other criteria as are prescribed by the regulations. 2009, c. 19, s. 3 (1).

Section 4(1) of O. Reg. 455/09 specifies the types of facilities subject to toxic substance reduction planning and includes facilities that begin in North American Industry Classification System (NAICS) code “31”, “32” or “33” and “212”. The CRH Canada Mississauga Plant operates under the category of “cement manufacturing”, and therefore has a NAICS code beginning with “32”.

The Mississauga Cement Plant was required to produce a Toxics Reduction Plan for the following substances:

- Acenaphthylene
- Acetone
- Ammonia
- Benzene
- Carbon Monoxide (CO)
- Chromium
- Dioxins and Furans
- Fluorene
- Hexachlorobenzene
- Hydrochloric Acid
- Mercury
- Methyl-Ethyl-Ketone
- Nitrogen Oxides (NOx)
- Particulate Matter – Total
- Particulate Matter – 10 microns
- Particulate Matter – 2.5 microns
- Phenanthrene
- Selenium
- Sulphur Dioxide (SO2)
- Toluene
- Total Volatile Organic Compounds (VOCs)
- Xylene

3. General Facility Information

3.1 Company Information

Parent Company Name	CRH Canada Group Inc.
Parent Company Address	2300 Steeles Ave. West, 4 th Floor Concord, Ontario L4K 5X6
Facility Name	CRH Canada Mississauga Plant
Facility Address	2391 Lakeshore Road West Mississauga, Ontario L5J 1K1
Universal Transverse Mercator (UTM) in North American Datum (NAD83)	Zone: 17 Easting: 610948.37 Northing: 4816945.05
National Pollutant Release Inventory Identification Number	2182
Ontario Regulation 127/01 Identification Number	5112
Two Digit North American Industry Classification System (NAICS) Code	32 – Manufacturing
Four Digit North American Industry Classification System (NAICS) Code	3273 - Cement and Concrete Product Manufacturing
Six Digit North American Industry Classification System (NAICS) Code	327310 - Cement Manufacturing
Number of Full-time Employee Equivalents at the Facility	185

3.2 Contact Information

Facility Public Contact	Richard Lalonde Environment Manager 2391 Lakeshore Road West Mississauga, ON L5J 1K1 905 822-1653 ext. 44371 Richard.lalonde@ca.crh.com
Technical Contact	Richard Lalonde
Coordinator	Richard Lalonde
Highest Ranking Employee	Kevin Hughes Plant Manager 2391 Lakeshore Road West Mississauga, ON L5J 1K1 905 822-1653 ext. 44770
License Number of Planner	TSRP0045

4. Toxics Substances

For the purpose of this plan summary, toxic substances were organized into the following categories:

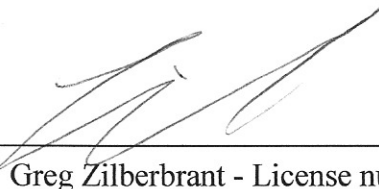
- VOCs (Benzene, Methyl-Ethyl-Ketone, Toluene, Xylene)

The purpose of these categories is to avoid duplication of information among toxic substances that share similar characteristics and qualities. This summary is an accurate reflection of the Mississauga Cement Plant Toxics Reduction Plan.

VOCs – Benzene, Methyl-Ethyl-Ketone, Toluene, Xylene	
Statement of Intent	<p>The Mississauga Cement Plant does not intend to reduce its use or creation of VOCs in its processes. VOCs are created as a result of the high temperatures of the kiln and the organic carbon found in raw meal, an essential component of the cement manufacturing process.</p> <p>While the Mississauga Cement Plant does not intend to reduce its use of VOCs, it will continue to examine the conditions under which VOCs are created in its processes and explore reduction opportunities.</p>
Description of Substances	<p>The tracking of VOCs through the cement manufacturing process is a relatively complex task as there are instances of destruction and creation at various stages, depending on factors such as temperature and organic carbon found in raw meal.</p>

As of December 17, 2015, I Greg Zilberbrant, certify that I am familiar with the processes at CRH Canada Group Inc. (formerly Holcim (Canada) Inc.) – Mississauga that use or create the toxic substance(s) referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4(1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 17, 2015 and that the plan complies with the Act and Ontario Regulation 455/09 (General) made under the Act.

- Methyl-Ethyl-Ketone (MEK)



Greg Zilberbrant - License number TSRP0045

As of December 31, 2015, I Kevin Hughes, certify that I have read the toxic substance reduction plan for the toxic substance(s) referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the *Toxics Reduction Act*, 2009 and Ontario Regulation 455/09 (General) made under that Act.

- Methyl-Ethyl-Ketone



Signature