

## 2014 TRA Reporting - Public Report

### 1. General Information

Facility Information	
Company Name	Canada Alloy Castings, a division of Flowserve Canada Corp.
Facility Address	529 Manitou Drive, Kitchener, ON N2C 1S2
Site Coordinates (main entrance of site)	17 T 544699 mE 4805463 mN
NPRI ID	151
MOE ID	-
Number of Full-Time Employees in 2014	62
2-Digit NAICS Code	33 – Manufacturing
4- Digit NAICS Code	3315 – Foundries
6-Digit NAICS Code	331514 – Steel Foundries
Substance Information	
Substance Name	CAS #
Chromium (and its compounds)	NA – 04
Nickel (and its compounds)	NA – 11
Furfuryl alcohol	98-00-0
Particulate Matter 2.5 (PM2.5)	NA – M10
Particulate Matter 10 (PM10)	NA – M09
Facility Contact Information	
Public Contact	Mr. John Lourenco Manufacturing Manager Phone #: 519-895-1161 x 241 Fax #: 519-895-1169
	jlourenco@flowserve.com 529 Manitou Drive Kitchener, ON N2C 1S2

## 2. Toxic Substance Accounting Summary

Facility-wide Amounts of Toxic Substances Reported for 2014:

Substance Name	Used	Created	Contained In Product	Release to Air	Disposed / Recycled
Chromium (and its compounds)	10 to 100	--	1 to 10	0 to 1	10 to 100
Nickel (and its compounds)	10 to 100	--	10 to 100	0 to 1	1 to 10
Furfuryl alcohol	10 to 100	--	--	10 to 100	--
Particulate Matter 2.5 (PM2.5)	--	0 to 1	--	0 to 1	--
Particulate Matter 10 (PM10)	--	0 to 1	--	0 to 1	--

NOTE: Units are expressed in tonnes, unless otherwise indicated. '--' indicates not applicable.

## 3. Quantification Comparison to Previous Year

### 3.1 Chromium (and its compounds)

	Unit	2014	2013	Change (Unit)	Change (%)	Rationale for Change
Used	Tonnes	10 to 100	10 to 100	↓ 10 to 100	↓ 54.1%	Reduced use of material containing Cr (mostly LCA400) and overestimated in 2013.
Created	--	--	--	--	--	
Contained In Product	Tonnes	1 to 10	10 to 100	↓ 1 to 10	↓ 53.6%	
Release to Air	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 52.5%	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recycling	Tonnes	10 to 100	10 to 100	↓ 10 to 100	↓ 54.4%	

### 3.2 Nickel (and its compounds)

	Unit	2014	2013	Change (Unit)	Change (%)	Rationale for Change
Used	Tonnes	10 to 100	10 to 100	↓ 10 to 100	↓ 42.9%	Reduced use of material containing Ni (mostly LCA400) and overestimated in 2013.
Created	--	--	--	--	--	
Contained In Product	Tonnes	1 to 10	10 to 100	↓ 1 to 10	↓ 42.4%	
Release to Air	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 22.4%	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recycling	Tonnes	10 to 100	10 to 100	↓ 1 to 10	↓ 43.3%	

### 3.3 Furfuryl Alcohol

	Unit	2014	2013	Change (Unit)	Change (%)	Rationale for Change
Used	Tonnes	10 to 100	10 to 100	↑ 1 to 10	↑ 7.1%	No significant change.
Created	--	--	--	--	--	
Contained In Product	--	--	--	--	--	
Release to Air	Tonnes	10 to 100	10 to 100	↑ 1 to 10	↑ 7.4%	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recycling	--	--	--	--	--	

### 3.4 Particulate Matter (PM2.5)

	Unit	2014	2013	Change (Unit)	Change (%)	Rationale for Change
Used	--	--	--	--	--	No significant change.
Created	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 0.7%	
Contained In Product	--	--	--	--	--	
Release to Air	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 0.7%	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recycling	--	--	--	--	--	

### 3.5 Particulate Matter (PM10)

	Unit	2014	2013	Change (Unit)	Change (%)	Rationale for Change
Used	--	--	--	--	--	No significant change.
Created	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 1.1%	
Contained In Product	--	--	--	--	--	
Release to Air	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 1.1%	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recyclin	--	--	--	--	--	

#### 4. Objectives

Canada Alloy Castings prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. This plan will determine the technical and economic feasibility of each identified option to determine which, if any, are viable for implementation at this time. As part of the continuous improvement practices at the facility, technical advances will be monitored for new opportunities for reduction.

#### 5. Progress in Implementing Plan

This section does not apply since no feasible reduction options are available for implementation at this time.

For information on on-site releases from the facility, as well as disposal and off-site recycling information please refer to National Pollutant Release Inventory's website: <http://www.ec.gc.ca/inrp-npri/>.

As of May 21, 2015, I, Russ Urry, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

*Chromium (and its compounds)*

*Nickel (and its compounds)*

*Furfuryl alcohol*

*Particulate Matter, PM2.5*

*Particulate Matter, PM10*



Russ Urry  
GM Operations and Sales  
Canada Alloy Castings