

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	41	
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	
Particulate Matter 2.5 (PM2.5)	NA – M10	
Particulate Matter 10 (PM10)	NA – M09	
Facility Contact Information		
Report Prepared by	EnviroLum Consulting Inc. Ms. Connie Lum Principal Consultant Phone #: 519-635-2286	connie@enviroLum.com Kitchener, ON TSRP0089
Public Contact	Mr. Russ Urry Director/General Manager Phone #: 519-895-1161 x 241 Fax #: 519-895-1169	russurry@cac.ca 529 Manitou Drive Kitchener, ON N2C 1S2

2. Toxic Substance Accounting Summary

Facility-wide Amounts of Toxic Substances Reported for 2016:

Substance Name	Used	Created	Contained In Product	Release to Air	Disposed / Recycled
Chromium (and its compounds)	10 to 100	--	10 to 100	0 to 1	1 to 10
Nickel (and its compounds)	10 to 100	--	10 to 100	0 to 1	1 to 10
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	2016	2015	Change (Unit)	Change (%)	Rationale for Change
Used	Tonnes	10 to 100	10 to 100	↑ 1 to 10	↑ 30.6	Increase in use of materials with Cr content.
Created	--	--	--	--	--	
Contained In Product	Tonnes	10 to 100	10 to 100	↑ 1 to 10	↑ 88.4	
Release to Air	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 52.4	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	Decrease in overall production.
Transferred for Recycling	Tonnes	1 to 10	1 to 10	↓ 1 to 10	↓ 43.8	

3.2 Nickel (and its compounds)

	Unit	2016	2015	Change (Unit)	Change (%)	Rationale for Change
Used	Tonnes	10 to 100	10 to 100	↑ 1 to 10	↑ 41.4	Increase in use of materials with Ni content.
Created	--	--	--	--	--	
Contained In Product	Tonnes	10 to 100	1 to 10	↑ 1 to 10	↑ 101.5	
Release to Air	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 63.2	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	Decrease in overall production.
Transferred for Recycling	Tonnes	1 to 10	1 to 10	↓ 1 to 10	↓ 37.1	

3.3 Particulate Matter (PM2.5)

	Unit	2016	2015	Change (Unit)	Change (%)	Rationale for Change
Used	--	--	--	--	--	No significant change.
Created	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 1.0	
Contained In Product	--	--	--	--	--	
Release to Air	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 1.0	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recycling	--	--	--	--	--	

3.4 Particulate Matter (PM10)

	Unit	2016	2015	Change (Unit)	Change (%)	Rationale for Change
Used	--	--	--	--	--	No significant change.
Created	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 0.8	
Contained In Product	--	--	--	--	--	
Release to Air	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 0.8	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recycling	--	--	--	--	--	

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/>.

2016 TRA Reporting - Public Report

As of May 16, 2017, 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)

Particulate Matter, PM2.5

Particulate Matter, PM10



Russ Urry
Director/General Manager
Canada Alloy Castings