

## 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	44	
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. Mitch Clarke General Manager Phone #: 519-895-1161 x 238 Fax #: 519-895-1169	mitchclarke@cac.ca 529 Manitou Drive Kitchener, ON N2C 1S2

## 2. Toxic Substance Accounting Summary

Facility-wide Amounts of Toxic Substances Reported for 2018:

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	2018	2017	Change (Unit)	Change (%)	Rationale for Change
Used	Tonnes	10 to 100	10 to 100	↑ 1 to 10	↑ 36.9	Change in materials used.
Created	--	--	--	--	--	--
Contained In Product	Tonnes	10 to 100	1 to 10	↑ 10 to 100	↑ 137	Mass balance based on recycling data.
Release to Air	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 9.9	No significant change.
Release to Water	--	--	--	--	--	--
On-site Disposal	--	--	--	--	--	--
Transferred for Disposal	--	--	--	--	--	--
Transferred for Recycling	Tonnes	1 to 10	10 to 100	↓ 1 to 10	↓ 31.9	Decrease in total scrap recycled.

### 3.2 Nickel (and its compounds)

	Unit	2018	2017	Change (Unit)	Change (%)	Rationale for Change
Used	Tonnes	10 to 100	10 to 100	↑ 1 to 10	↑ 17.6	Change in materials used.
Created	--	--	--	--	--	--
Contained In Product	Tonnes	10 to 100	1 to 10	↑ 1 to 10	↑ 114.3	Mass balance based on recycling data.
Release to Air	Tonnes	0 to 1	0 to 1	↓ 0 to 1	↓ 23.3	Change in welding materials.
Release to Water	--	--	--	--	--	--
On-site Disposal	--	--	--	--	--	--
Transferred for Disposal	--	--	--	--	--	--
Transferred for Recycling	Tonnes	1 to 10	10 to 100	↓ 1 to 10	↓ 46.1	decrease in total scrap recycled.

### 3.3 Particulate Matter (PM2.5)

	Unit	2018	2017	Change (Unit)	Change (%)	Rationale for Change
Used	--	--	--	--	--	No significant change.
Created	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 0.9	
Contained In Product	--	--	--	--	--	
Release to Air	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 0.9	
Release to Water	--	--	--	--	--	
On-site Disposal	--	--	--	--	--	
Transferred for Disposal	--	--	--	--	--	
Transferred for Recycling	--	--	--	--	--	

### 3.4 Particulate Matter (PM10)

	Unit	2018	2017	Change (Unit)	Change (%)	Rationale for Change
Used	--	--	--	--	--	No significant change.
Created	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 0.6	
Contained In Product	--	--	--	--	--	
Release to Air	Tonnes	0 to 1	0 to 1	↑ 0 to 1	↑ 0.6	
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/>.

## 6. Highest Ranking Certification

*The original copy of the signed certification of the annual report is kept on file at the facility.*

### ON MECP TRA - Electronic Certification Statement

#### Annual Report Certification Statement

As of 2020-07-19, I, Mitch Clarke, 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.

#### TRA Substance List\*

CAS RN	Substance Name
NA - 04	Chromium (and its compounds)
NA - 11	Nickel (and its compounds)
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns

#### Exit Record Certification Statement

As of 2020-07-19, I Mitch Clarke, certify that I have read the records created for the purposes of section 11.2 of Ontario Regulation 455/09 (General) made under the Toxics Reductions Act, (2009) in respect of the use and creation of the toxic substances referred to below at CANADA ALLOY CASTINGS and am familiar with their contents and to my knowledge they are factually accurate.

#### TRA Exit Record Substances

CAS RN	Substance Name
NA - 06	Copper (and its compounds)

#### Company Name

Inossman North American Corp.

#### Highest Ranking Employee

Mitch Clarke

#### Report Submitted by

Mitch Clarke

#### Website address

<https://www.envirolum.com/canada-alloy-castings.html>

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

### Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2018	2020-07-19	CANADA ALLOY CASTINGS	Ontario	Kitchener	NPRI, ON MECP TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

## 2018 TRA Reporting - Public Report

As of \_\_\_\_\_, 2018, I, Mitch Clarke, 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*

---

Mitch Clarke  
General Manager  
Canada Alloy Castings