Toxics Reduction Act Public Annual Report Calendar Year 2016

The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address.(See below)	Niagara Investment Castings division of ASAHI Refining Canada Ltd. 16 Smith Street, St Catharines ON L2P 3J1
Facility NPRI identification number	5761
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.	
Number of full-time employees	53
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31 - 33 Manufacturing 3315 - Foundries 331514 - Steel Foundries
If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public:	
Public Contact (if applicable)	Keith Neureuther
Title	Plant Manager
Phone Number Address of each person below if not the same as the facility	(905) 682-9258 ext 222
Facility Name	Niagara Investment Castings division of ASAHI Refining Canada Ltd.
Address 1	16 Smith Street
Address 2	
City	St. Catharines
Province	ON
Postal Code	L2P 3J1
UTM Zone	17
UTM Easting	644977
UTM Northing	6780885
Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company	
Parent company name	Niagara Investment Castings division of ASAHI Refining Canada Ltd.
Address 1	16 Smith Street
Address 2	
City	St. Catharines
Province	ON
Postal Code	L2P 3J1
Percent Ownership	100%

Substance: Chromium (and its compounds) NA-04 CAS Number: On a facility-wide basis: Amount Units Amount that entered the facility as the substance itself or as a constituent of another substance: tonnes > 10 to 100The amount of substance that was created: tonnes 0.000 The amount of substance that was contained in product: > 10 to 100 tonnes On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance: Cobalt (and its compounds) NA-05 CAS Number: On a facility-wide basis: Units Amount Amount that entered the facility as the substance itself or as a constituent of another substance: > 1,000 to 10,000 kg The amount of substance that was created: 0.000 kg The amount of substance that was contained in product: > 1,000 to 10,000 On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance: Copper (and its compounds) NA-06 CAS Number: On a facility-wide basis: Units Amount Amount that entered the facility as the substance itself or as a constituent of another substance: tonnes > 10 to 100 The amount of substance that was created: 0.000 tonnes The amount of substance that was contained in product: > 10 to 100 tonnes On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance: Lead (and its compounds) NA-08 CAS Number: On a facility-wide basis: Units Amount Amount that entered the facility as the substance itself or as a constituent of another substance: > 1,000 to 10,000 kg The amount of substance that was created: 0.000 kg The amount of substance that was contained in product: > 1,000 to 10,000 On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance: Nickel (and its compounds) CAS Number: On a facility-wide basis: Units Amount Amount that entered the facility as the substance itself or as a constituent of another substance: > 10 to 100 tonnes The amount of substance that was created: tonnes 0.000 The amount of substance that was contained in product: > 10 to 100 tonnes On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Particulate Matter less than or equal to 10 microns (PM10) Substance: NA-M09 CAS Number: On a facility-wide basis: Units Amount Amount that entered the facility as the substance itself or as a constituent of another substance: 0.000 tonnes The amount of substance that was created: > 0 to 1 tonnes The amount of substance that was contained in product: 0.000 tonnes On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Particulate Matter less than or equal to 2.5 microns (PM2.5) Substance: NA-M10 CAS Number: On a facility-wide basis: Units Amount Amount that entered the facility as the substance itself or as a constituent of another substance: tonnes 0.000 The amount of substance that was created: > 0 to 1 tonnes The amount of substance that was contained in product: 0.000 tonnes On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Comparison of Annual Reported Amounts

Substance: Chromium (and its compounds) NA-04 CAS Number: 2015 2015 Difference On a facility-wide basis: Amount that entered the facility as the substance tonnes tonnes tonnes -33.37% > 10 to 100 > 10 to 100 > 10 to 100 itself or as a constituent of another substance: The amount of substance that was created: 0.000 0.000 0.00 0% > 10 to 100 > 10 to 100 > 10 to 100 -33.41% The amount of substance that was contained in product:

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at $\frac{http://www.ec.gc.ca/inrp-npri/default.asp?lang=en}{http://www.ec.gc.ca/inrp-npri/default.asp?lang=en}$

Substance: Copper (and its compounds)

CAS Number: NA-06

On a facility-wide basis: 2016 2015 Difference
Amount that entered the facility as the substance tonnes tonnes

itself or as a constituent of another substance: > 10 to 100 > 10 to 100 > 1 to 10 > 10 to 100 >

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance: Lead (and its compounds) NA-08 CAS Number: 2016 2015 Difference On a facility-wide basis: Amount that entered the facility as the substance kg kg kg > 1,000 to 10,000 > 1,000 to 10,000 > 100 to 1,000 29.68% itself or as a constituent of another substance: 0.0000.000 The amount of substance that was created: 0.00 0% > 1,000 to 10,000 > 1,000 to 10,000 | > 100 to 1,000 | 13.13% The amount of substance that was contained in product:

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	Nickel (and its compounds)				
CAS Number:	NA-11	[
On a facility-wide basis:		2016	2015	Differer	ice
Amount that entered the facility as the substance		tonnes	tonnes	tonnes	%
itself or as a constituent of another substance:		> 10 to 100	> 10 to 100	> 10 to 100	-18.60%
The amount of substance that was created:		0.000	0.000	0.00	0%
The amount of substance that was contained in product:		> 10 to 100	> 10 to 100	> 10 to 100	-17.70%
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed					
by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en					

Substance:	Particulate Matter less than or equal to 10 microns (PM10)				
CAS Number:	NA-M	109			
On a facility-wide basis:		2016	2015	Differ	rence
Amount that entered the facility as the substance		tonnes	tonnes	tonnes	%
itself or as a constituent of another substance:		0.000	0.000	0.000	0%
The amount of substance that was created:		> 0 to 1	> 0 to 1	> 0 to 1	-22.19%
The amount of substance that was contained in pro-	oduct:	0.000	0.000	0.000	-0%
On-site releases from the facility to air water and	land as	well as on and off-site d	isposal and off-site	recycling can l	ne viewed

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching\for this facility at http://www.ec.gc.ca/inrp-npri/default.asp?lang=en

Substance:	Partic	ulate Matter less than or	r equal to 2.5 micror	ns (PM2.5)	
CAS Number:	NA-N	110			
On a facility-wide basis:		2016	2015	Differ	ence
Amount that entered the facility as the substance		tonnes	tonnes	tonnes	%
itself or as a constituent of another substance:		0.000	0.000	0.000	0%
The amount of substance that was created:		> 0 to 1	> 0 to 1	> 0 to 1	-22.17%
The amount of substance that was contained in pro-	duct:	0.000	0.000	0.000	-0%

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at $\frac{\text{http://www.ec.gc.ca/inrp-npri/default.asp?lang=en}}{\text{http://www.ec.gc.ca/inrp-npri/default.asp?lang=en}}$

Annual Progress Report – Calendar 2016

Substances for which toxic substance reduction plans have been prepared:

Substance Name	CAS#	Toxic Reduction Plan Date
Chromium and its compounds	NA-04	December 21, 2012
Copper and its compounds	NA-06	December 21, 2012
Lead and its compounds	NA-08	December 21, 2012
Nickel and its compounds	NA-11	December 21, 2012
Aluminum Oxide	1344-28-1	September 17, 2013*
Particulate Matter less than or equal to 10 microns (PM10)	NA-M09	September 17, 2013
Particulate Matter less than or equal to 2.5 microns (PM2.5)	NA-M10	September 17, 2013

^{*} TRA Exit Record for 2013 reporting year (only non-fibrous form used)

Substances for which a toxic substance reduction plan will be prepared by December 31, 2017:

Substance Name	CAS#
Cobalt and its compounds**	NA-05

^{**} The reporting thresholds for cobalt (and its compounds) were lowered to 50 kilograms with a 0.1% concentration threshold for quantities that are manufactured, processed or otherwise used, from the original 10-tonne and 1% concentration thresholds.

Toxic Reduction Progress

The current reporting year saw slight decreases for some substances primarily due to a decrease in the facility's production in 2016 for several materials due to material reformation.

Plan Implementation Progress

There were no reduction options identified in any of the plans for the above noted substances that were identified as being both technically and economically feasible. No additional actions outside the plans were taken in 2016 to reduce the use and/or creation for any of the reportable substances. No amendments were made to the toxic substances reduction plans in 2016.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 24/04/2017, I, John Pagnotta, 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 - 05	Cobalt (and its compounds)		
	NA - 06	Copper (and its compounds)		
	NA - 08	Lead (and its compounds)		
	NA - 11	Nickel (and its compounds)		
NA - M09	NA - M09	PM10 - Particulate Matter <= 10 Microns		
	NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns		
Comp	oany Name			
Niagara Investment Castings (division of Asahi Refining Canada)				
Highe	est Ranking Employee			
Joh	n Pagnotta			

Report Submitted by	
John Pagnotta	
Website address	

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
2016	24/04/2017	Niagara Investment Castings (division of Asahi Refining Canada)	Ontario	St. Catharines	NPRI,ON MOE 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.