# **Toxics Reduction Act Public Annual Report Calendar 2013**

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)	Johnson Matthey 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	56
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	(905) 682-9258 ext 222
Address of each person below if not the same as the facility	
Facility Name	Johnson Matthey Ltd.
Address 1	16 Smith Street
Address 2	
City	St. Catharines
Province	ON
Postal Code	L2P 3J1
UTM Zone	17
UTM Easting	644977.54
UTM Northing	6780885.77
Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company	
Parent company name	Johnson Matthey Ltd.
Address 1	16 Smith Street
Address 2	
City	St. Catharines
Province	ON
Postal Code	L2P 3J1
Percent Ownership	100%

Substance:	Chromium (and its comp	ounde)	
CAS Number:	NA-04	ounus)	
On a facility-wide basis:	111101		Units
Amount that entered the facility as the substance i	teelf or as a constituent	Amount	Ollits
of another substance:	iself of as a constituent	10 100	٦,
		> 10 to 100	<del>-</del>
The amount of substance that was created:		0.000	tonnes
The amount of substance that was contained in pro		> 10 to 100	
On-site releases from the facility to air, water and			e recycling can be
viewed by searching\for this facility at <a href="http://www.utm.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm.ntm.n&lt;/th&gt;&lt;th&gt;ec.gc.ca/inrp-npri/default.a&lt;/th&gt;&lt;th&gt;asp?iang=en&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Substance:&lt;/td&gt;&lt;td&gt;Copper (and its compour&lt;/td&gt;&lt;td&gt;nds)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;CAS Number:&lt;/td&gt;&lt;td&gt;NA-06&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On a facility-wide basis:&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Amount&lt;/td&gt;&lt;td&gt;Units&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Amount that entered the facility as the substance i&lt;/td&gt;&lt;td&gt;tself or as a constituent&lt;/td&gt;&lt;td&gt;rimount&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;of another substance:&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&gt; 10 to 100&lt;/td&gt;&lt;td&gt;tonnes&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;The amount of substance that was created:&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;0.000&lt;/td&gt;&lt;td&gt;=&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;The amount of substance that was contained in pro&lt;/td&gt;&lt;td&gt;oduct.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On-site releases from the facility to air, water and&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&gt; 10 to 100&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;viewed by searching\for this facility at http://www&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;c recycling can be&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;, , , ,&lt;/td&gt;&lt;td&gt;• •&lt;/td&gt;&lt;td&gt;&lt;del&gt;-&lt;/del&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;T 1/ 11: 1&lt;/td&gt;&lt;td&gt;`&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Substance:&lt;/td&gt;&lt;td&gt;Lead (and its compounds&lt;/td&gt;&lt;td&gt;S)  &lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;CAS Number:&lt;/td&gt;&lt;td&gt;NA-08&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;***&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On a facility-wide basis:&lt;/td&gt;&lt;td&gt;NA-08&lt;/td&gt;&lt;td&gt;Amount&lt;/td&gt;&lt;td&gt;Units&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On a facility-wide basis:  Amount that entered the facility as the substance i&lt;/td&gt;&lt;td&gt;NA-08&lt;/td&gt;&lt;td&gt;Amount&lt;/td&gt;&lt;td&gt;- ···&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On a facility-wide basis:  Amount that entered the facility as the substance i of another substance:&lt;/td&gt;&lt;td&gt;NA-08&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;- ···&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On a facility-wide basis:  Amount that entered the facility as the substance is of another substance:  The amount of substance that was created:&lt;/td&gt;&lt;td&gt;NA-08 tself or as a constituent&lt;/td&gt;&lt;td&gt;Amount&lt;/td&gt;&lt;td&gt;kg&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On a facility-wide basis:  Amount that entered the facility as the substance is of another substance:  The amount of substance that was created:  The amount of substance that was contained in pro-&lt;/td&gt;&lt;td&gt;NA-08  tself or as a constituent oduct:&lt;/td&gt;&lt;td&gt;Amount  &gt; 1,000 to 10,000  0.000  &gt; 1,000 to 10,000&lt;/td&gt;&lt;td&gt;kg&lt;br&gt;kg&lt;br&gt;kg&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;On a facility-wide basis: Amount that entered the facility as the substance i of another substance: The amount of substance that was created: The amount of substance that was contained in proof. 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On a facility-wide basis: Amount that entered the facility as the substance is of another substance: The amount of substance that was created: The amount of substance that was contained in proof. On-site releases from the facility to air, water and viewed by searching\for this facility at <a href="http://www.substance">http://www.substance</a> Substance: CAS Number: On a facility-wide basis: Amount that entered the facility as the substance is of another substance:	NA-08  tself or as a constituent  oduct: land, as well as on and off- v.ec.gc.ca/inrp-npri/default.a  Nickel (and its compoun NA-11  tself or as a constituent	Amount  > 1,000 to 10,000 0.000 > 1,000 to 10,000 site disposal and off-sit asp?lang=en  ds)  Amount  > 10 to 100 0.000	kg kg kg e recycling can be  Units tonnes tonnes
On a facility-wide basis: Amount that entered the facility as the substance is of another substance: The amount of substance that was created: The amount of substance that was contained in professional or on-site releases from the facility to air, water and viewed by searching\for this facility at <a href="http://www.searching\for-this-facility-wide-basis">http://www.searching\for-this-facility at <a href="http://www.searching\for-this-facility-wide-basis">http://www.searching\for-this-facility at <a href="http://www.searching\for-this-facility-wide-basis">http://www.searching\for-this-facility at <a href="http://www.searching\for-this-facility-wide-basis">http://www.searching\for-this-facility at <a href="http://www.searching\for-this-facility-wide-basis">http://www.searching\for-this-facility-wide-basis</a> Amount that entered the facility as the substance is of another substance: The amount of substance that was created:</a></a></a></a>	NA-08  tself or as a constituent  oduct: land, as well as on and off- v.ec.gc.ca/inrp-npri/default.a  Nickel (and its compoun NA-11  tself or as a constituent	Amount  > 1,000 to 10,000 0.000 > 1,000 to 10,000 site disposal and off-sit asp?lang=en  ds)  Amount  > 10 to 100 0.000 > 10 to 100	kg kg kg e recycling can be  Units  tonnes tonnes tonnes

Substance:	Particulate Matter less th	nan or equal to 10 micro	ons (PM10)	
CAS Number:	NA-M09		<u> </u>	
On a facility-wide basis:		Amount	Units	
Amount that entered the facility as the substance its	self 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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				

Substance:	Particulate Matter less than or equal to 2.5 microns (PM2.5)			
CAS Number:	NA-M10			
On a facility-wide basis:		Amount	Units	
Amount that entered the facility as the substance its	self 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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>				

Aluminum Oxide (CAS 1344-28-1) is not reportable under NPRI in 2013 due to more accurate data collected for the fibrous form.

A TRA Exit Record was submitted for the 2013 reporting year.

# **Comparison of Annual Reported Amounts**

Chromium (and its compounds) Substance: NA-04 CAS Number: 2013 2012 Difference On a facility-wide basis: 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 > 1 to 10 23.7% 0.000 0.000 0.00 0% The amount of substance that was created: > 10 to 100 > 10 to 100 > 0 to 1 24.7% 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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>

Copper (and its compounds) Substance: CAS Number: 2013 2012 Difference On a facility-wide basis: Amount that entered the facility as the substance tonnes tonnes tonnes > 10 to 100 > 1 to 10 31.5% itself or as a constituent of another substance: > 10 to 100 The amount of substance that was created: 0.000 0.000 0.00 0% > 10 to 100 > 10 to 100 > 1 to 10 34.4% 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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>

Substance:	Lead (	(and its compounds)					
CAS Number:	NA-0	8					
On a facility-wide basis:		2013	2012		Differen	ce	
Amount that entered the facility as the substance		kg	kg		kg	%	
itself or as a constituent of another substance:		> 1,000 to 10,000	> 1,000 to 10,	000	> 100 to 1,000	37.2%	
The amount of substance that was created:		0.000	0.000		0.00	0%	
The amount of substance that was contained in prod	luct:	> 1,000 to 10,000	> 1,000 to 10,	000	> 100 to 1,000	46.6%	_
	_			. —			

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  $\underline{\text{http://www.ec.gc.ca/inrp-npri/default.asp?lang=en}}$ 

Substance:	Nicke	l (and its compounds)			
CAS Number:	NA-1	1			
On a facility-wide basis:		2013	2012	Difference	ce
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	> 0 to 1	-2.1%
The amount of substance that was created:		0.000	0.000	0.00	0%
The amount of substance that was contained in produ	uct:	> 10 to 100	> 10 to 100	> 0 to 1	-4.3%
	1	11 1 00 1 1	1 1 CC 1	1. 1	. 1

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  $\underline{\text{http://www.ec.gc.ca/inrp-npri/default.asp?lang=en}}$ 

Substance:	Particulate Matter less than or equal to 10 microns (PM10)				
CAS Number:	NA-M0	9			
On a facility-wide basis:		2013	2012	Differer	ice
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	-9.6%
The amount of substance that was contained in produ	uct:	0.000	0.000	0.000	-0%
On-site releases from the facility to air, water and lan	nd, as we		•	recycling can be	viewed

by searching\for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>

Substance:	Partici	ılate Matter less than o	r equal to 2.5 micror	ns (PM2.5)	
	NA-M		r equal to 2.5 interes	15 (1 1/12.5)	
On a facility-wide basis:		2013	2012	Differe	nce
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	-9.6%
The amount of substance that was contained in produ	uct:	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 <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>

# **Annual Progress Report – Calendar 2013**

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

<sup>\*</sup> TRA Exit Record for 2013 reporting year (only non-fibrous form used)

#### **Toxic Reduction Progress**

The current reporting year saw slight increases for some substances primarily due to an increase in the facility's production in 2013 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 where taken in 2013 to reduce the use and/or creation for any of the reportable substances. No amendments were made to the toxic substances reduction plans in 2013.

## **Annual Report Certification Statement**

As of 13/05/2011, I, Keith Neureuther, 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.

## TRA Substance List

1101 Substance 1	2131
CAS RN	Substance Name
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
NA - 04	Chromium (and its compounds)
NA - 06	Copper (and its compounds)
NA - 11	Nickel (and its compounds)
NA - 08	Lead (and its compounds)
1344-28-1	Aluminum Oxide (TRA Exit Record in 2013)