

Toxics Reduction Act Public Annual Report Calendar 2012

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)	Precious Metals Division 130 Glidden Road Brampton ON L6W 3M8
Facility NPRI identification number	000003991
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	122
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31 - 33 Manufacturing 3314 - Non-Ferrous (exc. Al) Production & Processing 331410 - Non-Ferrous (except Al) Smelting & Refining
If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public:	Andy Calovini Environmental, Health and Safety Manager 905-454-6851
Public Contact (if applicable)	
Title	
Phone Number	
Address of each person below if not the same as the facility	
Facility Name	Precious Metals Division
Address 1	130 Glidden Road
Address 2	
City	Brampton
Province	ON
Postal Code	L6W 3M8
UTM coordinates, x and y	X 603005 Y 4838353
Datum	WGS84
Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company	
Parent company name	Johnson Matthey Limited
Address 1	130 Glidden Road
Address 2	
City	Brampton
Province	ON
Postal Code	L6W 3M8
Percent Ownership	100%

Substance:
CAS Number:

Chlorine
7782-50-5

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

> 10 to 100	tonnes
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The amount of substance that was created:

0.000	tonnes
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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>

Substance:
CAS Number:

Copper and its compounds
NA - 06

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

> 10 to 100	tonnes
-------------	--------

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:
CAS Number:

Hydrochloric Acid
7647-01-0

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

> 100 to 1 000	tonnes
----------------	--------

The amount of substance that was created:

0.000	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>

Substance:
CAS Number:

Nitrate ion (in solution at a pH of 6.0 or greater)
NA - 17

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

> 100 to 1 000	tonnes
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The amount of substance that was created:

0.000	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>

Substance:
CAS Number:

Nitric Acid
7697-37-2

On a facility-wide basis:

Amount Units

Amount that entered the facility as the substance itself or as a constituent of another substance:

> 100 to 1 000	tonnes
----------------	--------

The amount of substance that was created:

0.000	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>

Substance:
CAS Number:

Silver and its compounds
NA - 13

On a facility-wide basis:

Amount Units

Amount that entered the facility as the substance itself or as a constituent of another substance:

> 100 to 1 000	tonnes
----------------	--------

The amount of substance that was created:

0.000	tonnes
-------	--------

The amount of substance that was contained in product:

> 100 to 1 000	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>

Substance:
CAS Number:

Zinc and its compounds
NA - 14

On a facility-wide basis:

Amount Units

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:

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:
CAS Number:

Arsenic and its compounds
NA - 02

On a facility-wide basis:

Amount Units

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	kg
-------------------	----

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:
CAS Number:

Cadmium and its compounds
NA - 03

On a facility-wide basis:

Amount Units

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:

0.000	kg
-------	----

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:
CAS Number:

Lead and its compounds
NA - 08

On a facility-wide basis:

Amount Units

Amount that entered the facility as the substance itself or as a constituent of another substance:

> 10 000 to 100 000	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	kg
-------------------	----

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:
CAS Number:

Selenium and its compounds
NA - 12

On a facility-wide basis:

Amount Units

Amount that entered the facility as the substance itself or as a constituent of another substance:

> 100 to 1000	kg
---------------	----

The amount of substance that was created:

0.000	kg
-------	----

The amount of substance that was contained in product:

> 100 to 1000	kg
---------------	----

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: CAS Number:	<table border="1" style="margin: auto;"> <tr><td>Chlorine</td></tr> <tr><td>7782-50-5</td></tr> </table>	Chlorine	7782-50-5																		
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Substance:
CAS Number:

Silver and its compounds
NA - 13

On a facility-wide basis:
Amount that entered the facility as the substance itself or as a constituent of another substance:
The amount of substance that was created:
The amount of substance that was contained in product:

2012	2011	Difference	
Mg	Mg	Mg	(%)
> 100 to 1 000	> 100 to 1 000	> 10 to 100	-8%
0.000	0.000	0.000	0%
> 100 to 1 000	> 100 to 1 000	> 10 to 100	-9%

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:
CAS Number:

Zinc and its compounds
NA - 14

On a facility-wide basis:
Amount that entered the facility as the substance itself or as a constituent of another substance:
The amount of substance that was created:
The amount of substance that was contained in product:

2012	2011	Difference	
Mg	Mg	Mg	(%)
> 10 to 100	> 10 to 100	> 10 to 100	15%
0.000	0.000	0.000	0%
> 10 to 100	> 10 to 100	> 10 to 100	28%

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:
CAS Number:

Arsenic and its compounds
NA - 02

On a facility-wide basis:
Amount that entered the facility as the substance itself or as a constituent of another substance:
The amount of substance that was created:
The amount of substance that was contained in product:

2012	2011	Difference	
kg	kg	kg	%
> 1 000 to 10 000	> 1 000 to 10 000	> 100 to 1000	-12%
0.000	0.000	0.000	0%
> 1 000 to 10 000	> 1 000 to 10 000	> 100 to 1000	-20%

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:
CAS Number:

Cadmium and its compounds
NA - 03

On a facility-wide basis:
Amount that entered the facility as the substance itself or as a constituent of another substance:
The amount of substance that was created:
The amount of substance that was contained in product:

2012	2011	Difference	
kg	kg	kg	%
> 1 000 to 10 000	> 1 000 to 10 000	> 1 000 to 10 000	-49%
0.000	0.000	0.000	0%
0.000	> 1 000 to 10 000	> 1 000 to 10 000	-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:
CAS Number:

Lead and its compounds
NA - 08

On a facility-wide basis:
Amount that entered the facility as the substance itself or as a constituent of another substance:
The amount of substance that was created:
The amount of substance that was contained in product:

2012	2011	Difference	
kg	kg	kg	%
> 10 000 to 100 000	> 10 000 to 100 000	> 100 to 1000	13%
0.000	0.000	0.000	0%
> 1 000 to 10 000	> 1 000 to 10 000	> 100 to 1000	14%

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:
CAS Number:

Selenium and its compounds
NA - 12

On a facility-wide basis:
Amount that entered the facility as the substance itself or as a constituent of another substance:
The amount of substance that was created:
The amount of substance that was contained in product:

2012	2011	Difference	
kg	kg	kg	kg
> 100 to 1000	> 100 to 1000	> 100 to 1000	-12%
0.000	0.000	0.000	0%
> 100 to 1000	> 100 to 1000	> 100 to 1000	-20%

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>

Annual Progress Report - Calendar 2012

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Chlorine	7782-50-5
Copper and its compounds	NA - 06
Hydrochloric Acid	7647-01-0
Silver and its compounds	NA - 13
Zinc and its compounds	NA - 14
Arsenic and its compounds	NA - 02
Cadmium and its compounds	NA - 03
Lead and its compounds	NA - 08
Selenium and its compounds	NA - 12

Plan Objectives

Johnson Matthey's goal is to reduce the use and release of the above noted substances where technically and economically feasible. Based on currently available information and technologies, there are no technically and economically reduction options currently available for these substance. However, Johnson Matthey will continue to explore and investigate potential options as they arise as part of their sustainability program. It is also important to note that many of these substances are naturally occurring in trace amounts in many of the materials received and processed by the facility (e.g., primary doré) and that most current research seeks to abate these emissions using end of pipe controls.

Toxics Reduction Progress

In terms of quantities of the substances reported, the current reporting year saw slight decreases for some substances primarily due to a decrease in the facility's production in 2012. Slight increases in some metal species were estimated for 2012 due to variations in the composition of the feedstock and quantities of materials sent off-site for recycling.

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. As such, there were no timelines presented in the reduction plans for the above noted substances. However, Johnson Matthey will continue to explore and investigate potential reduction options as they arise as part of their sustainability program.

As there were no anticipated reductions noted in each of the plans for the toxic substances noted above, there were no reductions of any toxic substances during the reporting period that would be attributable to any reduction plan.

Certification Statement

As of May 28, 2013, I certify that I have read the reports on the toxic substance reduction plans for Chlorine, Copper (and its compounds), Hydrochloric Acid, Nitrate Ion, Nitric Acid, Silver (and its compounds), Zinc (and its compounds), Arsenic (and its compounds), Cadmium (and its compounds), Lead (and its compounds) and Selenium (and its compounds) 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 the Act.

The original version of this report is signed off by: Highest Ranking Employee:

Title:

Phone Number:

Dave Murray
Operations Manager
905-454-6897