



National Pollutant Release Inventory (NPRI) and



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SWIM » 2015 » [Precise Castings Inc.](#) » [Precise Castings Elmira](#) » [Report Preview](#)

Report Preview

Report Details

Report Year	2015
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	11/05/2016 1:22 PM

Company and Facility Details

Company Name:	Precise Castings Inc.
Business Number:	100000000
Mailing Address:	Delivery Mode: SuburbanServices Address Line 1: 124 Bonnie Crescent City, Province/Territory, Postal Code: Elmira Ontario N3B3J8 Country: Canada
Facility Name:	Precise Castings Elmira
NAICS Code:	331529
NPRI ID:	7433
ON Reg 127/01 ID:	9738
Physical Address:	Address Line 1: 124 Bonnie Crescent City, Province/Territory, Postal Code: Elmira Ontario N3B3J8 Country: Canada Latitude: 43.58860 Longitude: -80.55180 UTM Zone: 17 UTM Easting: 536162 UTM Northing: 4826236

Contacts Details

Contact Type	Technical Contact, Certifying Official, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Kevin Melanson
Position:	Quality Manager
Telephone:	5196695159
Email:	kmelanson@precisecastings.ca
Mailing Address:	Delivery Mode: SuburbanServices Address Line 1: 124 Bonnie Crescent City, Province/Territory, Postal Code: Elmira Ontario N3B 3J8 Country: Canada
Contact Type	Highest Ranking Employee

Name: Manny Matias

Position: General Manager

Telephone: 5196695159

Fax: 5196691566

Email: mmatias@precisecastings.ca

Mailing Address: Address Line 1: 124 Bonnie Crescent
City, Province/Territory, Postal Code: Elmira Ontario N3B 3J8
Country: Canada

Contact Type: Person who prepared the report

Name: ROOP CHANDERDAT

Position: President

Telephone: 5194716770

Fax: 5194716770

Email: roop@golden.net

Mailing Address: Delivery Mode: SuburbanServices
Address Line 1: 1669 Westdel Bourne
City, Province/Territory, Postal Code: London Ontario N6K4R1
Country: Canada

General Information

Number of employees: 20

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply: None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene: None of the above

Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs): Wood preservation using creosote: No

Is this the first time the facility is reporting to the NPRI (under current or past ownership): No

Is the facility controlled by another Canadian company or companies: No

Did the facility report under other environmental regulations or permits: No

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants): No

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 04	Chromium (and its compounds)	0.0010	N/A	N/A	2.7300	tonnes
NA - 11	Nickel (and its compounds)	0.0003	N/A	N/A	1.5740	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
NA - 04	Chromium (and its compounds)	Yes	Yes		No
NA - 11	Nickel (and its compounds)	Yes	Yes		No

General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
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NA - 04	Chromium (and its compounds)	Yes	Yes	No
NA - 11	Nickel (and its compounds)	Yes	Yes	No

General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
NA - 04	Chromium (and its compounds)	No	No	Yes
NA - 11	Nickel (and its compounds)	No	No	Yes

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 04	Chromium (and its compounds)		As a formulation component	
NA - 11	Nickel (and its compounds)		As a formulation component	

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
NA - 04	Chromium (and its compounds)	Use	28.508 tonnes	Yes
NA - 04	Chromium (and its compounds)	Creation	0.000 tonnes	No
NA - 04	Chromium (and its compounds)	Contained	25.777 tonnes	Yes
NA - 11	Nickel (and its compounds)	Use	17.640 tonnes	Yes
NA - 11	Nickel (and its compounds)	Creation	0.000 tonnes	No
NA - 11	Nickel (and its compounds)	Contained	16.066 tonnes	Yes

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking	Incidents out of the normal course of events	Significant Process Change
NA - 04	Chromium (and its compounds)					No
NA - 11	Nickel (and its compounds)					No

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 04	Chromium (and its compounds)	Total Quantity Released	E2 - Published Emission Factors		0.001 tonnes
NA - 11	Nickel (and its compounds)	Total Quantity Released	E2 - Published Emission Factors		0.0003 tonnes

On-site Releases - Total

On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
NA - 04	Chromium (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 11	Nickel (and its compounds)	Changes in production levels	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
NA - 04	Chromium (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 11	Nickel (and its compounds)		No significant change (i.e. < 10%) or no change	

Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
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CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 04	Chromium (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		2.730 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	C - Mass Balance		1.574 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 04	Chromium (and its compounds)	2.730 tonnes
NA - 11	Nickel (and its compounds)	1.574 tonnes

Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 04	Chromium (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	2.730 tonnes
NA - 11	Nickel (and its compounds)	Recovery of Metals and Metal Compounds	Triple M Metals	61 Balzar Rd., Kitchener, ON, Canada	1.574 tonnes

Recycling - Off-site Transfers for Recycling - Dioxins and Furans Breakdown List By Facility

Category	CAS RN	Substance Name	Off-site Name	Quantity
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Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 04	Chromium (and its compounds)	Production Residues Pollution abatement residues Machine or finishing residues	Changes in production levels	
NA - 11	Nickel (and its compounds)	Production Residues Pollution abatement residues Machine or finishing residues	Changes in production levels	

Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 04	Chromium (and its compounds)	No	Enters the facility (Use)	28.508 tonnes	40.902 tonnes	2014	-12.394	-30.30
NA - 04	Chromium (and its compounds)	No	Creation	0.000 tonnes	0.000 tonnes	2014	0.000	
NA - 04	Chromium (and its compounds)	No	Contained	25.777 tonnes	38.972 tonnes	2014	-13.195	-33.86
NA - 11	Nickel (and its compounds)	No	Enters the facility (Use)	17.640 tonnes	23.038 tonnes	2014	-5.398	-23.43
NA - 11	Nickel (and its compounds)	No	Creation	0.000 tonnes	0.000 tonnes	2014	0.000	
NA - 11	Nickel (and its compounds)	No	Contained	16.066 tonnes	22.099 tonnes	2014	-6.033	-27.30

Comparison Report - Enters, Creation, Contained in Product : Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 04	Chromium (and its compounds)	Decrease in production levels	
NA - 11	Nickel (and its compounds)	Decrease in production levels	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 04	Chromium (and its compounds)	No	Total Releases to Air	0 tonnes	0 tonnes	2014	0	
NA - 04	Chromium (and its compounds)	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - 04	Chromium (and its compounds)	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - 04	Chromium (and its compounds)	No	Total Releases to All Media	0.001 tonnes	0.003 tonnes	2014	-0.002	-66.67
NA - 11	Nickel (and its compounds)	No	Total Releases to Air	0 tonnes	0 tonnes	2014	0	
NA - 11	Nickel (and its compounds)	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 11	Nickel (and its compounds)	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - 11	Nickel (and its compounds)	No	Total Releases to All Media	0.0003 tonnes	0.0005 tonnes	2014	-0.0002	-40.0

Comparison Report - On-site Releases - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 04	Chromium (and its compounds)	Decrease in production levels	
NA - 11	Nickel (and its compounds)	Decrease in production levels	

Comparison Report - Transfers off-site for Recycling

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 04	Chromium (and its compounds)	No	Total off-site Transfers for Recycling	2.730 tonnes	1.928 tonnes	2014	0.802	41.60
NA - 11	Nickel (and its compounds)	No	Total off-site Transfers for Recycling	1.574 tonnes	0.939 tonnes	2014	0.635	67.63

Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 04	Chromium (and its compounds)	Other	Product Mix
NA - 11	Nickel (and its compounds)	Other	Product Mix

Pollution Prevention

Does the facility have a documented pollution prevention plan?

No

Did the facility complete any pollution prevention activities in the current NPRI reporting year

No

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 04	Chromium (and its compounds)	Precise Castings operates the Elmira facility with the commitment to minimizing the impacts of the operation on the employees, the environment and the surrounding community. Precise Castings uses chromium containing alloys and elements to product steel and alloy steel to its Customers requirements and the specifications they reference. Precise will continue to pursue options that are technically and economically achievable for the reduction of the use of Chromium.
NA - 11	Nickel (and its compounds)	Castings operates the Elmira facility with the commitment to minimizing the impacts of the operation on the employees, the environment and the surrounding community. Precise Castings uses Nickel containing alloys and elements to product steel and alloy steel to its Customers requirements and the specifications they reference. Precise will continue to pursue options that are technically and economically achievable for the reduction of the use of Nickel.

Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
NA - 11	Nickel (and its compounds)	No quantity target	No timeline target	

Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
NA - 11	Nickel (and its compounds)	No quantity target	No timeline target	

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
NA - 04	Chromium (and its compounds)	No		
NA - 11	Nickel (and its compounds)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 04	Chromium (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 11	Nickel (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
NA - 04	Chromium (and its compounds)	No		
NA - 11	Nickel (and its compounds)	No		

Report Submission and Electronic Certification

NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Precise Castings Inc.

Certifying Official (or authorized delegate)

Report Submitted by

Kevin Melanson

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 11/05/2016, I, Manny Matias, 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)

Company Name

Precise Castings Inc.

Highest Ranking Employee

Manny Matias

Report Submitted by

Kevin Melanson

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
2015	11/05/2016	Precise Castings Elmira	Ontario	Elmira	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.

Version: 3.10.0



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SUMMARY

TOXIC SUBSTANCE REDUCTION PLANS

PRECISE CASTINGS INC.

ELMIRA

CHROMIUM

NICKEL

December 31, 2012

Statement of Intent and Objectives of the Plans

Statement of Intent: Nickel enters the Elmira Facility as an alloy component of metallic raw materials and is used by Precise Castings Inc. in all three of the stages and in multiple processes. The product generated contains Nickel as an alloy component for corrosion resistance. We intend to reduce the use of Nickel at this facility. Nickel is not created at the facility and therefore this Plan will not address reducing its creation. There are no technically feasible options identified for implementation for the Precise Castings, Elmira facility for reduction of the use of Nickel at this time.

Objective: Precise Castings operates the Elmira facility with the commitment to minimizing the impacts of the operation on the employees, the environment and the surrounding community. Precise Castings uses Nickel containing alloys and elements to product steel and alloy steel to its Customers requirements and the specifications they reference. Precise will continue to pursue options that are technically and economically achievable for the reduction of the use of Nickel.

Facility Information

Facility Name:	Precise Castings Inc.
NPRI Identification Number:	7433
Two Digit NAICS Code:	33
Four Digit NAICS Code:	3315
Six Digit NAICS Code:	331529
Number of Full-time Employees:	30
UTM Spatial Coordinates (NAD83):	Latitude: 536162 Longitude: 4826236 Datum: NAD 83

Owner of the Facility Information

Name: Precise Castings Inc.

Operator of the Facility Information

Name: Precise Castings Inc.
Address: 124 Bonnie Crescent, Elmira, ON N3B 3J8
Phone Number: (519) 669-5159
Fax Number: (519) 669-1566
Email: kmelanson@precisecastings.ca

Toxic Substances for Which Facility Must Prepare Plan:

Substance 1	Chromium
CAS Number:	**
Substance 2	Nickel
CAS Number:	**

Public Contact

Name: Kevin Melanson
Position: Director of Quality
Address: 124 Bonnie Crescent, Elmira, ON N3B 3J8
Phone Number: (519) 669-5159 x224
Fax Number: (519) 669-1566
Email: kmelanson@precisecastings.ca

Precise manufactures custom castings of metallic alloys according to product customer specifications. Alloy raw materials containing chromium and nickel as constituent alloy components are melted, cast and finished according to the product specifications. Metal residues from the casting and finishing operations containing chromium and nickel are transferred to facilities off-site for metal recovery and recycling as well as being used in internal alloy re-use. Chromium and nickel are used in the formulation of the alloys to promote the characteristics

of the alloy desirable for the intended use of the steel product being manufactured.

There have been no options for reduction of the use of chromium or nickel selected for implementation at this time due to the restrictions of materials of construction composition imposed on Precise by the technical specifications of product customers.

This Plan Summary accurately reflects the content of the Toxic Substance Reduction Plans dated December 31, 2012, prepared for Chromium and for Nickel at Precise Castings Inc., Elmira.

As of December 31, 2012, I, Manny Matias, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Chromium
Nickel




Manny Matias
General Manager, Precise Castings Inc.
(Highest Ranking Employee)

12/31/12.
Date

As of December 31, 2012, I, Tim Boose, certify that I am familiar with the processes at Precise Castings Inc. that use or create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 31, 2012 and that the plans comply with that Act and Ontario Regulation 455/09 (General) made under that Act.

Chromium
Nickel



Tim Boose
Toxic Substance Reduction Planner
Licence # TSRP0095

12/31/2012
Date