



TOXIC REDUCTION ACT
2015 Annual Report

SANDVIK MATERIALS TECHNOLOGY CANADA
425 MCCARTNEY STREET,
ARNPRIOR, ONTARIO

Ref: 636313

June 2016

INTRODUCTION

Sandvik Materials Technology Canada (Sandvik), formerly Sandvik Steel Canada, (a Division of Sandvik Canada Inc.) has prepared this Toxic Substances Reduction Plan Annual Report as per the requirements of s. 24 of O. Reg 455/09 for the for the 2015 reporting year. This report summarizes the general facility information, a description of the progress in reducing all toxic substances reported in 2015 and a certification statement from the Highest Ranking Employee.

1. GENERAL FACILITY INFORMATION

Report Date:	June 1, 2016
Plan Date:	December 31, 2012
Facility Identification	
Company Name:	Sandvik Materials Technology Canada
Facility Name:	Sandvik Tube Production Facility
Address:	425 McCartney Street, Arnprior, Ontario, K7S 3P3
UTM Spatial Coordinates:	UTM Easting: 394973 UTM Northing: 5031110 Map Datum: NAD83 Zone: 17
Number of Full Time Employees:	188
NPRI Identification Number:	4524
Ontario MOE ID Number:	5785
Parent Company Information	
Legal Name of the Parent Company:	Sandvik Canada Inc.
Address of the Parent Company:	2250 Meadowvale Blvd., Mississauga, ON
Primary North American Industrial Classification System Code (NAICS)	
Two Digit NAICS Code:	33
Four Digit NAICS Code:	3312
Six Digit NAICS Code:	331210
Company Contact Information	
Name:	Michael Hall
Position:	General Manager
Address:	425 McCartney Street, Arnprior, Ontario, K7S 3P3
Phone Number:	613-623-6501 ext 259
Fax Number:	613-623-7243
E-mail:	michael.hall@sandvik.com

2. INFORMATION ABOUT THE TOXIC SUBSTANCES

The following substances were reported in 2015 and have Toxic Substance Reduction Plans:

CAS RN	Substance Name	Description of Substance Use
NA - 04	Chromium (and its compounds)	Included in steel tubing as an article component (to improve resistance to corrosion, rust and staining).
NA - 09	Manganese (and its compounds)	
NA - 11	Nickel (and its compounds)	
67-64-1	Acetone	Acetone is used in the tube cleaning process.
64741-65-7	Heavy alkylate naphtha (HAN) – reported as a speciated VOC	HAN is used in the tube pilgering and cleaning processes.

3. TOXIC REDUCTION POLICY STATEMENT OF INTENT

Sandvik is committed to playing a leadership role in protecting the environment. Concern for the environment, health and safety is a fundamental consideration in all operations. Whenever feasible, Sandvik will eliminate, or reduce the use, creation, or discharge of toxic substances in full compliance with all federal and provincial regulations. Sandvik's employees are encouraged to participate in all types of toxic use reduction activities. Toxic use reduction will be an ongoing effort for Sandvik, and Sandvik will continue to monitor technological advancements to ensure that reduction options that are both technological and financially viable are implemented at the facility.

4. REDUCTION OBJECTIVES

All employees at Sandvik will be involved in toxic substance use reduction. Toxic substance use and reduction of waste is a priority. Where technically and economically feasible, Sandvik's goal is to reduce toxic substance use and waste streams to the greatest extent possible.

4.1 Phase I Substances - Chromium, Manganese and Nickel

No options have been identified as technically or economically feasible for the reduction of chromium, manganese and nickel. These substances are required as an article component of the steel product. Sandvik has made significant progress in reducing the use and waste of metals in the past and continues to reduce waste (e.g. objective of recycling 100% of all metals on-site).

No quantity targets or timelines for the reduction objectives have been included for these substances.

4.2 Phase II Substances – Acetone and HAN

Toxic Substance	Objectives
Acetone	<ul style="list-style-type: none">• Ongoing improvement of the current spill and leak prevention procedures with specific emphasis on Sandvik’s toxic substance handling;• Reduce the total amount of waste produced (waste to landfill and hazardous waste) by 3.3% by year end 2013;• Continue with safe chemical and waste handling practices;• Ongoing improvement to the current safe handling training.
Heavy alkylate naphtha	<ul style="list-style-type: none">• Improved Inventory or Purchasing - Ensure employees sign out the exact amount of product from “stores”. Including a tracking system to keep bottles at pre-assigned stations (i.e. prevent station bottle transfer).• Training – implement an “Operator Awareness Program” where employees and supervisors will be trained in the environmental and health affects of Shellsol. The employees will also receive a brief awareness training on the Toxics Reduction Act.

These objectives do not have a specific timeline but undergo annual review for improvement. These objectives will be accomplished while providing a safe working environment for Sandvik’s employees.

5. SUMMARY OF TOXIC SUBSTANCE REDUCTION ACTIVITIES FOR 2015 REPORTING YEAR

5.1 Phase I Substances - Chromium, Manganese and Nickel

The 2015 Reporting Summary and comparison of quantification and accounting to the previous calendar year is provided in Appendix A. Appendix A also includes a rationale as to the changes from the previous year.

There were no additional activities outside the scope of the plan that reduce the use, creation, release, disposal, recycling or quantity contained in product of chromium, manganese and nickel in 2015.

No amendments were made to the plan in the previous year.

5.2 Phase II Substances – Acetone and HAN

The 2015 Reporting Summary and comparison of quantification and accounting to the previous calendar year is provided in Appendix A. Appendix A also includes a rationale as to the changes from the previous year.

Toxic Substance	2015 Activities
Acetone	<ul style="list-style-type: none"> • Modified equipment, layout or piping - Sandvik is in the process of buying automated dispensers to dispense a premeasured amount of acetone at various stations around the plant. • Chemical Tracking - Sandvik has improved the acetone tracking system to better quantify the amount of acetone used at different workstations in the plant. • Implemented inspection or monitoring program of potential spill or leak sources - Sandvik has implemented acetone management procedures to eliminate loss of products due to evaporation. • Training related to toxics substance reduction - Sandvik has continued delivering an operator awareness program to familiarize employees with the health effect of toxic substances and the Toxic Reduction Act. <p>These steps taken during the reporting period are in agreement with the steps described in the plan.</p>
Heavy alkylate naphtha	<ul style="list-style-type: none"> • Chemical Tracking - Sandvik has taken the following steps: Improve the tracking system of the toxic substances; and, Reduce the total amount of waste (containing the toxic substances) sent for disposal. • Training related to toxics substance reduction - Continue delivering training programs related to the use and health effect of toxic substances/Toxic Reduction Act. <p>These steps taken during the reporting period are in agreement with the steps described in the plan.</p>

There were no additional activities outside the scope of the plan that reduce the use, creation, release, disposal, recycling or quantity contained in product of acetone and heavy alkylate naphtha in 2015.

No amendments were made to the plan in the previous year.

6. CERTIFICATION BY HIGHEST RANKING EMPLOYEE

A copy of the 2015 electronic certification statement completed in the OWNERS online system has been provided in Appendix B. This statement applies to all reportable substances.

Appendix A - 2015 Reporting Summary and Comparison of Quantification and Accounting to the Previous Calendar Year

Table A.1 Chromium

	Used (tonnes/year)	Created (tonnes/year)	Contained in Product (tonnes/year)	On-Site Releases (tonnes/year)			Disposal (tonnes/year)		Off-Site Recycling (tonnes/year)
				Air	Water	Land	On-Site	Off-Site	
2014	>100 to 1,000	0	>100 to 1,000	0	0	0	0	0	49.7
2015	>100 to 1,000	0	>100 to 1,000	0	0	0	0	0	70.06
Reduction	-82.39	0	-102.46	0	0	0	0	0	20.36
% Difference	-17%	0%	-24%	0%	0%	0%	0%	0%	41%

Rationale for Change Changes in production levels and an increase in the total amount of metals sent for recycling.

Table A.2 Manganese

	Used (tonnes/year)	Created (tonnes/year)	Contained in Product (tonnes/year)	On-Site Releases (tonnes/year)			Disposal (tonnes/year)		Off-Site Recycling (tonnes/year)
				Air	Water	Land	On-Site	Off-Site	
2014	>10 to 100	0	>10 to 100	0	0	0	0	0	4.1
2015	>10 to 100	0	>10 to 100	0	0	0	0	0	5.76
Reduction	-9.13	0	-10.7	0	0	0	0	0	1.66
% Difference	-22%	0%	-29%	0%	0%	0%	0%	0%	40%

Rationale for Change Changes in production levels and an increase in the total amount of metals sent for recycling.

Table A.3 Nickel

	Used (tonnes/year)	Created (tonnes/year)	Contained in Product (tonnes/year)	On-Site Releases (tonnes/year)			Disposal (tonnes/year)		Off-Site Recycling (tonnes/year)
				Air	Water	Land	On-Site	Off-Site	
2014	>100 to 1,000	0	>100 to 1,000	0	0	0	0	0	40.6
2015	>100 to 1,000	0	>100 to 1,000	0	0	0	0	0	55.06
Reduction	-20.82	0	-35.3	0	0	0	0	0	14.46
% Difference	-6%	0%	-11%	0%	0%	0%	0%	0%	36%

Rationale for Change Changes in production levels and an increase in the total amount of metals sent for recycling.

Table A.4 Acetone

	Used (tonnes/year)	Created (tonnes/year)	Contained in Product (tonnes/year)	On-Site Releases (tonnes/year)			Disposal (tonnes/year)		Off-Site Recycling (tonnes/year)
				Air	Water	Land	On-Site	Off-Site	
2014	>1 to 10	0	na	3.70	0	0	na	na	na
2015	>1 to 10	0	na	2.36	0	0	na	na	na
Reduction	-3.05	0	0	-1.34	0	0	0	0	0
% Difference	-33%	0%	0%	-36%	0%	0%	0%	0%	0%

Decrease in consumption due to a decrease in the amount of tubing produced along with the implementation of toxic reduction options.

Rationale for Change

Table A.5 Heavy alkylate naphtha

	Used (tonnes/year)	Created (tonnes/year)	Contained in Product (tonnes/year)	On-Site Releases (tonnes/year)			Disposal (tonnes/year)		Off-Site Recycling (tonnes/year)
				Air	Water	Land	On-Site	Off-Site	
2014	>10 to 100	0	na	17.27	0	0	na	na	na
2015	>10 to 100	0	na	25.06	0	0	na	na	na
Reduction	6.37	0	0	7.79	0	0	0	0	0
% Difference	23%	0%	0%	45%	0%	0%	0%	0%	0%

Increase in consumption.

Rationale for Change

na not applicable

Appendix B – Certification Statement

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 01/06/2016, I, Michael Hall, 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
67-64-1	Acetone
NA - 04	Chromium (and its compounds)
NA - 09	Manganese (and its compounds)
NA - 11	Nickel (and its compounds)
NA - M16	Volatile Organic Compounds (VOCs)

Company Name

Sandvik Materials Technology Canada

Highest Ranking Employee

Michael Hall

Report Submitted by

Michael Hall

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	01/06/2016	Sandvik Tube Production Facility	Ontario	Arnprior	NPRI, ON MOE TRA, ON MOE