



Toxic Reduction Annual Report as per
Ontario Regulation 455/09
Novelis Kingston Works
Report for 2020



Ontario’s Toxics Reduction Act and Regulation (O.Reg 455/09) aims to protect the health of people and the environment by reducing the use and emission of toxic substances. The Act is the cornerstone of Ontario’s Toxics Reduction Strategy, which is focused on:

- managing and reducing the use and creation of toxic substances in order to protect the environment and human health
- informing the public about toxics in their communities
- helping ensure that Ontario is well positioned to compete in the emerging green global economy.

This strategy supplements the traditional ‘end of pipe’ approach to managing toxic substances released into the environment by focusing on reducing the creation and use of these substances at the ‘front end’ of manufacturing processes.

This act requires regulatory facilities to:

- track and quantify the toxic substances that they use and create
- develop plans to reduce the use and creation of these substances
- make summaries of their plans available to the public

Facility Information

Legal Name of Company	Novelis Inc. – Kingston Works
Company Street Address/Mailing Address	Novelis Corporation (100% ownership) 3560 Lenox Road, Suite 2000, Atlanta, GA, United States 30326
Company Business Number	849087549
Facility Street Address/Mailing Address	1 Lappan's Lane, Kingston, Ontario, Canada K7L 4Z5
NPRI Identification Number	4197
Number of Full-Time Employees	270
NAICS code:	331317
Spatial Coordinates of Facility	(44.2498, -76.5153) – NAD83 Datum
UTM Coordinates of Facility	379 533 m E, 4 900 942 m N
Highest Ranking Employee	Dennis Brady, Plant Manager 613-541-7056
Plan Coordinator	Julie McLachlan, EHS Coordinator 613-541-7040

The Novelis Facility is located in the City of Kingston, where it was established over 75 years ago. The Facility finishes coiled aluminum sheets received from the Novelis Hot Mill manufacturing facility in Oswego, New York through a process identified as cold rolling. Coiled



sheets are processed through rolling and thermal processes to achieve the gauges and metal properties as required by the customers. No metal forming or melting is conducted at the Facility. The Facility operates 24 hours a day, three shifts per day, most days of the year.

Reported Substances

Toxic Substances present at Kingston Works	CAS Registry Number	TSR Plan Date
White Mineral Oil	8042-47-5	December 6, 2013
Particulate Matter <= 2.5 microns, PM2.5	Not applicable	December 6, 2013
Particulate Matter <= 10 microns, PM10	Not applicable	December 6, 2013
Sulphuric Acid	7664-93-9	July 2, 2015 September 15, 2017 (amended)



White Mineral Oil

CAS # 8042-47-5

Novelis strives to maintain compliance with local, provincial and federal law, as well as any corporate requirements with respect to the control of its environmental aspects. Novelis is committed to optimizing the usage of equipment that use the white mineral oil to ensure that all releases via air and wastes are minimized.

White mineral oil is the main component in its lubricant that is essential to the production of its aluminum coil products. At this time, Novelis cannot implement any technically and economically feasible reduction options to reduce its use of white mineral oil.

There have been no significant changes in the Novelis processes or incidents outside of the normal courses of events. There have been no changes in how Novelis calculates Mineral Oil emissions in 2020.

Form of Involvement	Mineral Oil (2019)	Mineral Oil (2020)	% Change	Reason for Change
Enters the Facility (use)	>100 to 1000 Tonnes	>100 to 1000 Tonnes	-23%	Less Lubricant purchased
Created at the Facility	None	None		
Released to Air	>10 to 100 Tonnes	>10 to 100 Tonnes	+17%	Increase in Production
Released to Land	None	None		
Disposed of On-Site	None	None		
Disposed of Off Site	None	None		
Transferred for Recycling	>100 to 1000 Tonnes	>10 to 1000 Tonnes	+37%	More Lubricant sent off site as waste
Contained in the Product that leaves the Facility	None	None		

Kingston Works intends to continue to operate its processes involving White Mineral Oil in a safe and responsible manner. There were no additional actions taken in 2020 to achieve the objectives in our TRA Plan.



Sulphuric Acid

CAS # 7664-93-9

Novelis strives to maintain compliance with local, provincial and federal law, as well as any corporate requirements with respect to the control of its environmental aspects. Novelis is committed to optimizing the usage of Sulphuric Acid to ensure that there are minimal releases to air, land or water.

Sulphuric Acid is used as a cleaning agent at the Cleaning Line Operations.

There have been no significant changes in the Novelis processes or incidents outside of the normal courses of events. There have been no changes in how Novelis calculates Sulphuric emissions in 2020.

Form of Involvement	Sulphuric Acid (2019)	Sulphuric Acid (2020)	% Change	Reason for Change
Enters the Facility (use)	>10 to 100 Tonnes	>10 to 100 Tonnes	+50%	Increase in use of Sulphuric Acid
Created at the Facility	None	None		
Released to Air	>0 to 10 Tonnes	>0 to 10 Tonnes	+19%	Increase in production at the Cleaning Line
Released to Land	None	None		
Disposed of On-Site	None	None		
Disposed of Off Site	>0 to 10 Tonnes	>0 to 10 Tonnes	+40%	Increase in production at the Cleaning Line
Transferred for Recycling	None	None		
Contained in the Product that leaves the Facility	None	None		

Kingston Works intends to continue to operate its processes involving Sulphuric Acid in a safe and responsible manner. There were no additional actions taken in 2020 to achieve the objectives in our TRA Plan.



Particulate Matter PM2.5

Novelis strives to maintain compliance with local, provincial and federal law, as well as any corporate requirements with respect to the control of its environmental aspects. Novelis is committed to optimizing equipment use to minimize the release of particulate to air.

Particulate Matter less than 2.5 microns are created via the combustion of diesel and natural gas, welding and the operation of the Cold Mill.

There have been no significant changes in the Novelis processes or incidents outside of the normal courses of events. There have been no changes in how Novelis calculates particulate emissions in 2020.

Form of Involvement	PM 2.5 (2019)	PM 2.5 (2020)	% Change	Reason for Change
Enters the Facility (use)	None	None		
Created at the Facility	>0 to 10 Tonnes	>0 to 10 Tonnes	+10%	Increase in CM-1 Production
Released to Air	>0 to 10 Tonnes	>0 to 10 Tonnes	+10%	Increase in CM-1 Production
Released to Land	None	None		
Disposed of On-Site	None	None		
Disposed of Off Site	None	None		
Transferred for Recycling	None	None		
Contained in the Product that leaves the Facility	None	None		

Kingston Works intends to continue to operate its processes involving Particulate Matter less than 2.5 microns in a safe and responsible manner. There were no additional actions taken in 2020 to achieve the objectives in our TRA Plan.



Particulate Matter PM10

Novelis strives to maintain compliance with local, provincial and federal law, as well as any corporate requirements with respect to the control of its environmental aspects. Novelis is committed to optimizing equipment use to minimize the release of particulate to air.

Particulate Matter less than 10 microns are created via the combustion of diesel and natural gas, welding, the operation of the Cold Mill and the two cooling towers.

There have been no significant changes in the Novelis processes or incidents outside of the normal courses of events.

There was a correction in how Novelis calculates particulate emissions in 2020. The particulate from the main cooling tower drift was using a recirculation rate of 1017 gpm, the same as the smaller Samsco Cooling Tower. It was discovered that it is actually 2000 gpm.

Form of Involvement	PM 10 (2019)	PM 10 (2020)	% Change	Reason for Change
Enters the Facility (use)	None	None		
Created at the Facility	>0 to 10 Tonnes	>0 to 10 Tonnes	+38%	Not significantly different (<10%)
Released to Air	>0 to 10 Tonnes	>0 to 10 Tonnes	+38%	Corrected Cooling Tower Recirculation Rate
Released to Land	None	None		
Disposed of On-Site	None	None		
Disposed of Off Site	None	None		
Transferred for Recycling	None	None		
Contained in the Product that leaves the Facility	None	None		

Kingston Works intends to continue to operate its processes involving Particulate Matter less than 2.5 microns in a safe and responsible manner. There were no additional actions taken in 2020 to achieve the objectives in our TRA Plan.



ON MECP TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 2021-09-02, I, Dennis Brady, 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 - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
7664-93-9	Sulphuric acid

Company Name
Novelis Inc.

Highest Ranking Employee
Dennis Brady

Report Submitted by
Dennis Brady

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
2020	2021-09-02	Kingston Works	Ontario	Kingston	NPRI, ON MECP 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.