



Toxic Reduction Annual Report as per  
Ontario Regulation 455/09  
Novelis Kingston Works  
Report for 2019



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**

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

| <b>Toxic Substances present at Kingston Works</b> | <b>CAS Registry Number</b> | <b>TSR Plan Date</b>                         |
|---|----------------------------|--|
| 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<br>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 2019.

| <b>Form of Involvement</b>                               | <b>Mineral Oil (2018)</b> | <b>Mineral Oil (2019)</b> | <b>% Change</b> | <b>Reason for Change</b>              |
|--|---------------------------|---------------------------|-----------------|---------------------------------------|
| <b>Enters the Facility (use)</b>                         | >100 to 1000 Tonnes       | >100 to 1000 Tonnes       | +92%            | More Lubricant purchased              |
| <b>Created at the Facility</b>                           | None                      | None                      |                 |                                       |
| <b>Released to Air</b>                                   | >10 to 100 Tonnes         | >10 to 100 Tonnes         | -25%            | Reduction in Production               |
| <b>Released to Land</b>                                  | None                      | None                      |                 |                                       |
| <b>Disposed of On-Site</b>                               | None                      | None                      |                 |                                       |
| <b>Disposed of Off Site</b>                              | None                      | None                      |                 |                                       |
| <b>Transferred for Recycling</b>                         | >100 to 1000 Tonnes       | >10 to 1000 Tonnes        | +11%            | More Lubricant sent off site as waste |
| <b>Contained in the Product that leaves the Facility</b> | 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 2019 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 2019.

| <b>Form of Involvement</b>                               | <b>Sulphuric Acid (2018)</b> | <b>Sulphuric Acid (2019)</b> | <b>% Change</b> | <b>Reason for Change</b>           |
|--|------------------------------|------------------------------|-----------------|------------------------------------|
| <b>Enters the Facility (use)</b>                         | >10 to 100 Tonnes            | >10 to 100 Tonnes            | -32%            | Decrease in use of Sulphuric Acid  |
| <b>Created at the Facility</b>                           | None                         | None                         |                 |                                    |
| <b>Released to Air</b>                                   | >0 to 10 Tonnes              | >0 to 10 Tonnes              | +1%             | Not significantly different (<10%) |
| <b>Released to Land</b>                                  | None                         | None                         |                 |                                    |
| <b>Disposed of On-Site</b>                               | None                         | None                         |                 |                                    |
| <b>Disposed of Off Site</b>                              | None                         | None                         |                 |                                    |
| <b>Transferred for Recycling</b>                         | None                         | None                         |                 |                                    |
| <b>Contained in the Product that leaves the Facility</b> | 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 2019 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 2019.

| Form of Involvement                               | PM 2.5 (2018)   | PM 2.5 (2019)   | % Change | Reason for Change           |
|---|-----------------|-----------------|----------|-----------------------------|
| Enters the Facility (use)                         | None            | None            |          |                             |
| Created at the Facility                           | >0 to 10 Tonnes | >0 to 10 Tonnes | -12%     | Decrease in CM-1 Production |
| Released to Air                                   | >0 to 10 Tonnes | >0 to 10 Tonnes | -12%     | Decrease 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 2019 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 and the operation of the Cold Mill and cooling towers.

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 2019.

| Form of Involvement                               | PM 10 (2018)    | PM 10 (2019)    | % Change | Reason for Change                  |
|---|-----------------|-----------------|----------|------------------------------------|
| Enters the Facility (use)                         | None            | None            |          |                                    |
| Created at the Facility                           | >0 to 10 Tonnes | >0 to 10 Tonnes | -1%      | Not significantly different (<10%) |
| Released to Air                                   | >0 to 10 Tonnes | >0 to 10 Tonnes | -1%      | Not significantly different (<10%) |
| 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 2019 to achieve the objectives in our TRA Plan.



ON MECP TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 2020-06-02, 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                            |
| 8042-47-5 | White mineral oil                         |

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          |
|--------|-----------------|----------------|----------|----------|-------------------|
| 2019   | 2020-06-02      | 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.