



Domtar

2019 Toxic Substances Accounting Report

Dryden Mill

Prepared under the Toxics Reduction Act & O. Reg. 455/09

Environmental Policy

We will conduct business in a manner that conserves resources and minimizes our environmental footprint. We seek continual improvement in our environmental performance by setting, reviewing and updating environmental goals.

Our employees share in this responsibility and are accountable for the successful implementation of this policy. Local management is empowered to curtail operations, as necessary, to prevent serious environmental impacts.

We are committed to:

- Managing operations to comply with all applicable laws and regulations and other requirements to which we subscribe, with emphasis on pollution prevention, and minimizing adverse environmental impacts;
- Identifying and evaluating potential environmental risks and implementing appropriate measures to eliminate or control those risks;
- Developing and implementing measures to ensure sustainable use of materials, resources and energy;
- Promoting and developing awareness, leadership and accountability with respect to environmental protection among all our employees and persons working for us or on our behalf;
- Communicating with our employees, customers, suppliers, the communities in which we operate and public officials to build greater mutual understanding of environmental issues;
- Participating in the development of governmental environment policies based on sound science and sustainability principles;
- Supporting research aimed at improving process efficiency and environmental protection measures and applying such knowledge to our product stewardship;
- Conducting independent environmental audits to confirm that our management practices meet policy objectives, legislation and the principles of sound management; and
- Reporting to the Board of Directors on the environmental risks, opportunities, and status of our operations.

July 2009

Last Reviewed: July 2016



2019 TOXIC SUBSTANCES ACCOUNTING REPORT

Under Section 9 of the Toxics Reduction Act, an owner and operator of a facility are required to ensure for each process at the facility that uses or creates a prescribed toxic substance, that the substance is tracked and quantified, in accordance with the regulations. Under Section 10 (4) of the Act, the owner and the operator of a facility who are required under this section to ensure that a report is prepared shall ensure that all or part of the report, or some or all of the information contained in the report, is made available to the public on the Internet and by other means in accordance with the regulations.

The information contained within this report is the result of the accounting activities outlined in both the Act and Regulation. This report satisfies the requirements for reporting to the public as outlined in both the Act and Regulation.

Substance:
CAS Number:

Cadmium (and its compounds)
**

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

** no single CAS number applies to this substance

2019 kg	Change from 2018 kg	Change from 2018 %
10-100	1.690	2.8%
0-1	0.000	0.0%
1-10	0.039	0.4%
*	0.110	2.9%
*	-1.139	-6.7%
*	0.000	0.0%
*	-6.062	-16.4%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of cadmium (and its compounds) because it is an undesirable trace contaminant in raw materials (wood chips, natural gas and chemicals) for which there is no viable alternative. Based on the information gathered in the toxic substance reduction plan, the amount of cadmium (and its compounds) used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

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:

The amount of substance that was created:

The amount of substance that was contained in product:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

	2019 t	Change from 2018 t	Change from 2018 %
Amount that entered the facility as the substance itself or as a constituent of another substance:	0-1	0.000	0.0%
The amount of substance that was created:	1-10	-0.208	-16.0%
The amount of substance that was contained in product:	0-1	0.000	0.0%
Released to air	*	-0.109	-32.2%
Released to water	*	0.000	0.0%
Released to land	*	0.000	0.0%
On site disposal	*	0.000	0.0%
Off site disposal	*	0.000	0.0%
Off site recycling	*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of chlorine because it is an unintentional by-product of chlorine dioxide bleaching which is an integral process to the production of Kraft pulp for which there is no economically feasible alternative that maintains the product quality. Based on the information gathered in the toxic substance reduction plan, the amount of chlorine created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

2,3,7,8-Tetrachlorodibenzo-p-dioxin
1746-01-6

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

	2019 g	Change from 2018 g	Change from 2018 %
Amount that entered the facility as the substance itself or as a constituent of another substance:	0-1	0.0000	0.0%
The amount of substance that was created:	0-1	0.0000	0.0%
The amount of substance that was contained in product:	0-1	0.0000	0.0%
Released to air	*	0.0000	0.0%
Released to water	*	0.0000	0.0%
Released to land	*	0.0000	0.0%
On site disposal	*	0.0000	0.0%
Off site disposal	*	0.0000	0.0%
Off site recycling	*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 2,3,7,8-tetrachlorodibenzo-p-dioxin because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 2,3,7,8-tetrachlorodibenzo-p-dioxin created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,7,8-Pentachlorodibenzo-p-dioxin
40321-76-4

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0000	4.3%
0-1	0.0000	0.0%
*	0.0000	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,7,8-pentachlorodibenzo-p-dioxin because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,7,8-pentachlorodibenzo-p-dioxin created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
39227-28-6

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0001	4.3%
0-1	0.0000	0.0%
*	0.0001	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,4,7,8-hexachlorodibenzo-p-dioxin created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
19408-74-3

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0003	4.3%
0-1	0.0000	0.0%
*	0.0003	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,7,8,9-hexachlorodibenzo-p-dioxin because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,7,8,9-hexachlorodibenzo-p-dioxin created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
57653-85-7

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0001	4.3%
0-1	0.0000	0.0%
*	0.0001	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,6,7,8-hexachlorodibenzo-p-dioxin because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,6,7,8-hexachlorodibenzo-p-dioxin created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
35822-46-9

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 g	Change from 2018 g	Change from 2018 %
0-1	0.0000	0.0%
0-1	0.0026	4.3%
0-1	0.0000	0.0%
*	0.0026	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,4,6,7,8-heptachlorodibenzo-p-dioxin created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Octachlorodibenzo-p-dioxin
3268-87-9

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 g	Change from 2018 g	Change from 2018 %
0-1	0.0000	0.0%
0-1	0.0076	4.3%
0-1	0.0000	0.0%
*	0.0076	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of octachlorodibenzo-p-dioxin because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of octachlorodibenzo-p-dioxin created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

2,3,7,8-Tetrachlorodibenzofuran
51207-31-9

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0004	-0.8%
0-1	0.0000	0.0%
*	0.0004	-0.8%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 2,3,7,8-tetrachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 2,3,7,8-tetrachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

2,3,4,7,8-Pentachlorodibenzofuran
57117-31-4

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0001	4.3%
0-1	0.0000	0.0%
*	0.0001	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 2,3,4,7,8-pentachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 2,3,4,7,8-pentachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,7,8-Pentachlorodibenzofuran
57117-41-6

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0001	4.3%
0-1	0.0000	0.0%
*	0.0001	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,7,8-pentachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,7,8-pentachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,4,7,8-Hexachlorodibenzofuran
70648-26-9

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0002	4.3%
0-1	0.0000	0.0%
*	0.0002	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,4,7,8-hexachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,4,7,8-hexachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,7,8,9-Hexachlorodibenzofuran
72918-21-9

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0001	4.3%
0-1	0.0000	0.0%
*	0.0001	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,7,8,9-hexachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,7,8,9-hexachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,6,7,8-Hexachlorodibenzofuran
57117-44-9

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0001	4.3%
0-1	0.0000	0.0%
*	0.0001	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,6,7,8-hexachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,6,7,8-hexachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

2,3,4,6,7,8-Hexachlorodibenzofuran
60851-34-5

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0002	4.3%
0-1	0.0000	0.0%
*	0.0002	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 2,3,4,6,7,8-hexachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 2,3,4,6,7,8-hexachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,4,6,7,8-Heptachlorodibenzofuran
67562-39-4

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0003	4.3%
0-1	0.0000	0.0%
*	0.0003	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,4,6,7,8-heptachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,4,6,7,8-heptachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

1,2,3,4,7,8,9-Heptachlorodibenzofuran
55673-89-7

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0003	4.3%
0-1	0.0000	0.0%
*	0.0003	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of 1,2,3,4,7,8,9-heptachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of 1,2,3,4,7,8,9-heptachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Octachlorodibenzofuran
39001-02-0

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
g	g	%
0-1	0.0000	0.0%
0-1	0.0014	4.3%
0-1	0.0000	0.0%
*	0.0014	4.3%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%
*	0.0000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of octachlorodibenzofuran because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of octachlorodibenzofuran created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Formaldehyde
50-00-0

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

	2019 t	Change from 2018 t	Change from 2018 %
	0-1	0.000	0.0%
	10-100	-0.710	-5.9%
	*	0.113	3.4%
	*	-0.033	-6.7%
	*	0.000	0.0%
	*	0.001	24.9%
	*	0.000	0.0%
	*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of formaldehyde because it is an unintentional by-product of Kraft pulp manufacturing operation. Based on the information gathered in the toxic substance reduction plan, the amount of formaldehyde created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Hexachlorobenzene
118-74-1

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

	2019 g	Change from 2018 g	Change from 2018 %
	0-1	0.000	0.0%
	0-1	0.000	4.3%
	0-1	0.000	0.0%
	*	0.000	4.3%
	*	0.000	0.0%
	*	0.000	0.0%
	*	0.000	0.0%
	*	0.000	0.0%
	*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of hexachlorobenzene because it is an unintentional trace by-product of black liquor combustion in a Kraft recovery boiler. The operation of which is required for the efficient and economical recovery of process chemicals necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of hexachlorobenzene created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Hexavalent chromium compounds
**

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 kg	Change from 2018 kg	Change from 2018 %
10-100	-1.068	-2.1%
10-100	-7.704	-17.6%
0-1	0.000	0.0%
*	0.298	4.2%
*	-1.946	-6.7%
*	0.000	0.0%
*	-7.121	-12.3%
*	0.000	0.0%
*	0.000	0.0%

** no single CAS number applies to this substance

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of hexavalent chromium compounds because it is an undesirable trace contaminant in a raw material (sodium chlorate) for chlorine dioxide generation for which there is no viable alternative. Chlorine dioxide generation is an integral process to the production of Kraft pulp for which there is no economically feasible alternative that maintains product quality. Domtar Inc. – Dryden Mill does not intend to reduce its creation of hexavalent chromium compounds because it is an unintentional by-product of combustion of fuels containing trace chromium compounds (hog fuel and natural gas). Based on the information gathered in the toxic substance reduction plan, the amount of hexavalent chromium compounds created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

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:
The amount of substance that was created:
The amount of substance that was contained in product:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
1-10	0.868	10.2%
1-10	0.868	10.2%
0-1	0.000	0.0%
*	0.863	10.6%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of hydrochloric acid because it is an ideal cleaning chemical for dissolving scale in the digester and heaters for which there is no current cost effective, practical alternative. Domtar Inc. – Dryden Mill does not intend to reduce its creation of hydrochloric acid because it is an unintentional by-product of combustion of trace chloride associated with raw materials (wood chips and sodium hydroxide). Based on the information gathered in the toxic substance reduction plan, the amount of hydrochloric acid used or created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Lead (and its compounds)
**

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

** no single CAS number applies to this substance

2019	Change from 2018	Change from 2018
kg	kg	%
10-100	-0.537	-0.8%
0-1	0.000	0.0%
0-1	0.000	0.0%
*	0.557	2.3%
*	-1.650	-6.7%
*	0.000	0.0%
*	-1.773	-4.5%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of lead (and its compounds) because it is an undesirable trace contaminant in raw materials (wood chips, hog fuel, natural gas and chemicals) for which there is no viable alternative. Based on the information gathered in the toxic substance reduction plan, the amount of lead (and its compounds) used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Manganese (and its compounds)
**

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

** no single CAS number applies to this substance

2019	Change from 2018	Change from 2018
t	t	%
10-100	1.498	2.0%
0-1	0.000	0.0%
1-10	0.005	0.4%
*	0.002	2.1%
*	-2.597	-6.7%
*	0.000	0.0%
*	-11.804	-18.6%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of manganese (and its compounds) because it is an undesirable trace contaminant in raw materials (wood chips, hog fuel, natural gas, raw water and chemicals) for which there is no viable alternative. Based on the information gathered in the toxic substance reduction plan, the amount of manganese (and its compounds) used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Methanol
67-56-1

	2019 t	Change from 2018 t	Change from 2018 %
On a facility-wide basis:			
Amount that entered the facility as the substance itself or as a constituent of another substance:	1,000-10,000	154.940	6.6%
The amount of substance that was created:	1,000-10,000	-236.521	-5.6%
The amount of substance that was contained in product:	0-1	0.000	0.0%
Released to air	*	-2.526	-1.8%
Released to water	*	-0.228	-6.7%
Released to land	*	0.000	0.0%
On site disposal	*	0.310	24.9%
Off site disposal	*	0.000	0.0%
Off site recycling	*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of methanol because it is an ideal reducing agent for chlorine dioxide generation which is an integral process to the production of Kraft pulp for which there is no economically feasible alternative. Domtar Inc. – Dryden Mill does not intend to reduce its creation of methanol (also known as wood alcohol) because it is an unintentional by-product of Kraft pulping. Based on the information gathered in the toxic substance reduction plan, the amount of methanol used or created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Selenium
**

	2019 kg	Change from 2018 kg	Change from 2018 %
On a facility-wide basis:			
Amount that entered the facility as the substance itself or as a constituent of another substance:	100-1,000	4.739	3.3%
The amount of substance that was created:	0-1	0.000	0.0%
The amount of substance that was contained in product:	0-1	0.000	0.0%
Released to air	*	0.044	3.1%
Released to water	*	-2.258	-6.7%
Released to land	*	0.000	0.0%
On site disposal	*	-0.068	-3.3%
Off site disposal	*	0.000	0.0%
Off site recycling	*	0.000	0.0%

** no single CAS number applies to this substance

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of selenium (and its compounds) because it is an undesirable trace contaminant in raw materials (wood chips and hog fuel) for which there is no viable alternative. Based on the information gathered in the toxic substance reduction plan, the amount of selenium (and its compounds) used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No options were identified to be technically or economically feasible. Therefore, no option was implemented for the reduction of this substance.

Substance:
CAS Number:

Sulphuric acid
7664-93-9

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
10,000-100,000	-606.323	-5.4%
1-10	2.575	49.4%
0-1	0.000	0.0%
*	2.575	49.4%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2012 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does intend to reduce its use of sulphuric acid as there are economically and technically feasible options to do so. Domtar Inc. – Dryden Mill expects to reduce its use by an estimated 5% in 2012. Domtar Inc. – Dryden Mill does not intend to reduce its creation of sulphuric acid because it is an unintentional by-product of black liquor combustion, stripper off gas incineration, non condensable gas incineration and lime generation all of which are integral processes to maintaining an efficient, economical Kraft pulp manufacturing operation. Based on the information gathered in the toxic substance reduction plan, the amount of sulphuric acid created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to developing and implementing measures to ensure sustainable use of materials, resources and energy.

Implemented Options

Installation of the Microfiltration and Reverse Osmosis (MF/RO) units was completed and the units were fully operational in early 2012. Elimination of white liquor in the wash circulation was implemented in January 2012. Process trials were completed with an increase of the pulp machine wire pit pH. These trials were showed some success but it was determined that it could not be increased any further than 5.5.

All timelines in the toxic substance reduction plan have been met for all implemented options with no further actions required. Implementation of these options resulted in a decrease of 6.4% in the use of sulphuric acid at the facility thereby meeting the objective of 5%. The implementation of these options did not have any impact on creation or discharges to air, land or water.

Substance:
CAS Number:

Ammonia (total)
**

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling
** no single CAS number applies to this substance

2019 t	Change from 2018 t	Change from 2018 %
10-100	-1.074	-5.1%
100-1,000	9.657	3.3%
0-1	0.000	0.0%
*	1.370	4.6%
*	9.249	12.1%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of ammonia (total) because it is a source of one of the required nutrients (nitrogen) for microbiological treatment of the mill’s effluent that is required to meet regulatory discharge limits. Domtar Inc. – Dryden Mill does not intend to reduce its creation of ammonia (total) because it is unintentional by-product of the wastewater treatment and recausticizing processes which are necessary to maintain the facility operation. Based on the information gathered in the toxic substance reduction plan, the amount of ammonia used or created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use and creation of ammonia.

Substance:
CAS Number:

Chlorine Dioxide
10049-04-4

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
1,000-10,000	264.770	2.9%
0-1	0.000	0.0%
*	-0.048	-20.8%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of chlorine dioxide because it is the main chemical required for bleaching which is an integral process to the production of Kraft pulp for which there is no economically feasible alternative that maintains product quality. Based on the information gathered in the toxic substance reduction plan, the amount of chlorine dioxide created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of chlorine dioxide.

Substance:
CAS Number:

Ethylene Glycol
107-21-1

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

	2019 t	Change from 2018 t	Change from 2018 %
Amount that entered the facility as the substance itself or as a constituent of another substance:	1-10	-4.253	-70.4%
The amount of substance that was created:	0-1	0.000	0.0%
The amount of substance that was contained in product:	0-1	0.000	0.0%
Released to air	*	0.000	0.0%
Released to water	*	-1.544	-70.4%
Released to land	*	0.000	0.0%
On site disposal	*	0.000	0.0%
Off site disposal	*	-0.445	-54.0%
Off site recycling	*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

**Previous year's values are zero.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of ethylene glycol because it is required for heating the operating areas of the facility. Based on the information gathered in the toxic substance reduction plan, the amount of ethylene glycol used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use of ethylene glycol.

Substance:
CAS Number:

Hydrogen sulphide
7783-06-4

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

	2019 t	Change from 2018 t	Change from 2018 %
Amount that entered the facility as the substance itself or as a constituent of another substance:	0-1	0.000	0.0%
The amount of substance that was created:	10-100	-0.664	-0.7%
The amount of substance that was contained in product:	0-1	0.000	0.0%
Released to air	*	0.235	1.1%
Released to water	*	-1.034	-6.7%
Released to land	*	0.000	0.0%
On site disposal	*	0.000	0.0%
Off site disposal	*	0.000	0.0%
Off site recycling	*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill is currently undertaking studies to assess if opportunities exist to minimize the potential creation of the hydrogen sulphide that is an unintentional by-product from the operation of the wastewater treatment plant. Once these studies have been completed, the mill will be in better position to identify possible quantifiable actions or reductions in the potential creation of hydrogen sulphide from this source. Domtar Inc. – Dryden Mill has numerous processes to reduce emissions of the hydrogen sulphide that are an unintentional by-product of the Kraft pulp manufacturing operation. These reductions do not affect the creation of the hydrogen sulphide. Based on the information gathered in the toxic substance reduction plan, the amount of hydrogen sulphide created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of hydrogen sulphide.

Substance:
CAS Number:

Nitrate Ion
**

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019	Change from 2018	Change from 2018
t	t	%
10-100	-4.138	-14.5%
0-1	0.000	0.0%
0-1	0.000	0.0%
*	0.000	0.0%
*	-0.040	-6.7%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.000
*	0.000	0.000

** no single CAS number applies to this substance

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

Yes, a toxic substance reduction plan was prepared for this substance during the 2014 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of nitrate because it is a source of one of the required nutrients (nitrogen) for microbiological treatment of the mill’s effluent that is required to meet regulatory discharge limits. Based on the information gathered in the toxic substance reduction plan, the amount of nitrate used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use of nitrate.

Substance:
CAS Number:

Phosphorus (total)
**

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019	Change from 2018	Change from 2018
t	t	%
10-100	1.259	2.4%
0-1	0.000	0.0%
0-1	0.000	0.0%
*	0.009	3.7%
*	1.000	2.2%
*	0.000	0.0%
*	0.006	0.1%
*	0.000	0.0%
*	0.000	0.0%

** no single CAS number applies to this substance

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of phosphorus because it is a trace contaminant present in wood chips and hog fuel and is used as a source of one of the required nutrients (phosphorus) for microbiological treatment of the mill’s effluent that is required to meet regulatory discharge limits. Based on the information gathered in the toxic substance reduction plan, the amount of phosphorus used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use of phosphorus.

Substance:
CAS Number:

Carbon Monoxide
630-08-0

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:

Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019	Change from 2018	Change from 2018
t	t	%
0-1	0.000	0.0%
1,000-10,000	35.210	2.6%
*	35.210	2.6%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of carbon monoxide because it is an unintentional by-product of fuel combustion and bleaching, both of which are necessary to maintain the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of carbon monoxide created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of carbon monoxide.

Substance:
CAS Number:

Nitrogen oxides (expressed as NO ₂)
11104-93-1

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:

Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019	Change from 2018	Change from 2018
t	t	%
0-1	0.000	0.0%
100-1,000	-4.059	-0.6%
*	-4.059	-0.6%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of nitrogen oxides because it is an unintentional by-product of combustion of fuels; a process required for the maintenance of the facility and its processes. Based on the information gathered in the toxic substance reduction plan, the amount of nitrogen oxides created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of nitrogen oxides.

Substance:
CAS Number:

PM2.5
**

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

** no single CAS number applies to this substance

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
10,000-100,000	590.426	5.2%
*	4.120	3.3%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of PM2.5 because it is an unintentional by-product of combustion of solid fuels (black liquor, hog fuel) and natural gas, slaking, lime generation and transferring of wood chips to the digester. Based on the information gathered in the toxic substance reduction plan, the amount of PM2.5 created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of PM2.5.

Substance:
CAS Number:

PM10
**

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

** no single CAS number applies to this substance

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
10,000-100,000	813.394	4.9%
*	4.421	3.3%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of PM10 because it is an unintentional by-product of combustion of solid fuels (black liquor, hog fuel) and natural gas, slaking, lime generation and transferring of wood chips to the digester. Based on the information gathered in the toxic substance reduction plan, the amount of PM10 created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of PM10.

Substance:
CAS Number:

Sulphur dioxide
7446-09-5

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
t	t	%
0-1	0.000	0.0%
1,000-10,000	308.416	19.2%
*	48.757	17.2%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of sulphur dioxide because it is a by-product of the incineration of sulphur containing products (Non-Condensable Gases, Stripper Off Gases, black liquor, natural gas and hog fuel). Based on the information gathered in the toxic substance reduction plan, the amount of sulphur dioxide created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of sulphur dioxide.

Substance:
CAS Number:

Total Particulate Matter
**

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019	Change from 2018	Change from 2018
t	t	%
0-1	0.000	0.0%
10,000-100,000	32992.412	102.9%
*	37.142	23.4%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

** no single CAS number applies to this substance

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of total particulate matter because it is an unintentional by-product of combustion of solid fuels (black liquor, hog fuel) and natural gas, slaking, lime generation and transferring of wood chips to the digester. Based on the information gathered in the toxic substance reduction plan, the amount of total particulate matter created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of TPM.

Substance:
CAS Number:

Ethyl Alcohol
64-17-5

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:

Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
10-100	0.098	0.4%
*	0.041	0.6%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of ethyl alcohol because it is an unintentional, trace by-product of Kraft pulp manufacturing operation. Based on the information gathered in the toxic substance reduction plan, the amount of ethyl alcohol created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of ethyl alcohol.

Substance:
CAS Number:

Isopropyl Alcohol
67-63-0

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:

Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
1-10	0.015	0.5%
*	0.013	0.5%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of isopropyl alcohol because it is an unintentional, trace by-product of Kraft pulp manufacturing operation. Based on the information gathered in the toxic substance reduction plan, the amount of isopropyl alcohol created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of isopropyl alcohol.

Substance:
CAS Number:

D-Limonene
5989-27-5

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:

Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
10-100	-3.810	-6.9%
0-1	0.000	0.0%
*	0.098	0.7%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of d-limonene as it is present in wood chips and is a component of a product (turpentine) produced by the facility for sale. Based on the information gathered in the toxic substance reduction plan, the amount of d-limonene used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use of d-limonene.

Substance:
CAS Number:

Methyl Ethyl Ketone
78-93-3

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:

Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
1-10	-2.398	-22.6%
*	-0.109	-2.4%
*	-0.032	-6.7%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of methyl ethyl ketone because it is an unintentional, trace by-product of the Kraft pulp manufacturing operation. Based on the information gathered in the toxic substance reduction plan, the amount of methyl ethyl ketone created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of methyl ethyl ketone.

Substance:
CAS Number:

Alpha-Pinene
80-56-8

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
1,000-10,000	-132.909	-10.4%
0-1	0.000	0.0%
*	0.084	0.7%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of alpha-pinene as it is present in wood chips and is a main component of a product (turpentine) produced by the facility for sale. Based on the information gathered in the toxic substance reduction plan, the amount of alpha-pinene used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use of alpha-pinene.

Substance:
CAS Number:

Beta-Pinene
127-91-3

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:

Released to air

Released to water

Released to land

On site disposal

Off site disposal

Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
100-1,000	-28.613	-10.3%
0-1	0.000	0.0%
*	0.301	3.7%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its use of beta-pinene as it is present in wood chips and is a main component of a product (turpentine) produced by the facility for sale. Based on the information gathered in the toxic substance reduction plan, the amount of beta-pinene used is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the use of beta-pinene.

Substance:
CAS Number:

Total Reduced Sulphur
**

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
1,000-10,000	14.368	1.3%
*	-0.200	-0.4%
*	0.014	0.4%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

** no single CAS number applies to this substance

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill is currently undertaking studies to assess if opportunities exist to minimize the potential creation of the total reduced sulphur that is an unintentional by-product from the operation of the wastewater treatment plant. Once these studies have been completed, the mill will be in better position to identify possible quantifiable actions or reductions in the potential creation of total reduced sulphur from this source.

Domtar Inc. – Dryden Mill has numerous processes to reduce emissions of the total reduced sulphur that are an unintentional by-product of the Kraft pulp manufacturing operation. These reductions do not affect the creation of the total reduced sulphur.

Based on the information gathered in the toxic substance reduction plan, the amount of total reduced sulphur created is not expected to significantly increase.

Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of TRS.

Substance:
CAS Number:

Acetone
67-64-1

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:
Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019 t	Change from 2018 t	Change from 2018 %
0-1	0.000	0.0%
10-100	-0.773	-1.2%
*	0.082	1.1%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2013 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of acetone because it is an unintentional, trace by-product of the Kraft pulp manufacturing operation. Based on the information gathered in the toxic substance reduction plan, the amount of MIK created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of acetone.

Substance:
CAS Number:

Methyl Isobutyl Ketone
108-10-1

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:

Released to air
Released to water
Released to land
On site disposal
Off site disposal
Off site recycling

2019	Change from 2018	Change from 2018
t	t	%
0-1	0.000	0.0%
1-10	-0.080	-6.0%
*	-0.045	-4.4%
*	-0.044	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%
*	0.000	0.0%

*On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling for any of the above substances can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>.

Was a Toxic Substance Reduction Plan prepared for this substance during the reporting period?

A toxic substance reduction plan was prepared for this substance during the 2018 reporting period.

Toxic Substance Reduction Plan Objective

Domtar Inc. – Dryden Mill does not intend to reduce its creation of MIK because it is an unintentional, trace by-product of the Kraft pulp manufacturing operation. Based on the information gathered in the toxic substance reduction plan, the amount of acetone created is not expected to significantly increase. Domtar Inc. – Dryden Mill is committed to continuing to develop and implement measures to ensure sustainable use of materials, resources and energy.

Implemented Options

No option was identified to be technically and economically feasible. Therefore, no option will be implemented for the reduction of the creation of acetone.

As of May 30, 2019, I, James Blight, 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.

Acetone	Ethyl Alcohol
Alpha Pinene	Ethylene Glycol
Ammonia (total)	Formaldehyde
Beta Pinene	Hexachlorobenzene
Cadmium	Hexavalent chromium compounds
Carbon Monoxide	Hydrochloric acid
Chlorine	Hydrogen Sulphide
Chlorine Dioxide	Isopropyl Alcohol
2,3,7,8-Tetrachlorodibenzo-p-dioxin	Lead
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	D-Limonene
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	Manganese
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Methanol
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	Methyl Ethyl Ketone
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Methyl Isobutyl Ketone
Octachlorodibenzo-p-dioxin	Nitrogen Oxides
2,3,7,8-Tetrachlorodibenzofuran	Nitrate Ion
2,3,4,7,8-Pentachlorodibenzofuran	Phosphorus (total)
1,2,3,7,8-Pentachlorodibenzofuran	PM _{2.5}
1,2,3,4,7,8-Hexachlorodibenzofuran	PM ₁₀
1,2,3,7,8,9-Hexachlorodibenzofuran	Selenium
1,2,3,6,7,8-Hexachlorodibenzofuran	Sulphur Dioxide
2,3,4,6,7,8-Hexachlorodibenzofuran	Sulphuric acid
1,2,3,4,6,7,8-Heptachlorodibenzofuran	Total Reduced Sulphur
1,2,3,4,7,8,9-Heptachlorodibenzofuran	Total Particulate Matter
Octachlorodibenzofuran	

The original version of the toxic substance reduction plan is signed off by:
 Highest Ranking Employee:
 Title:
 Phone Number:

Marie Cyr
General Manager
807-223-9139

The legal and trade names of the owner and the operator of the facility, the street address of the facility and the mailing address of the facility

Domtar Inc.
1 Duke St. P.O. Box 3001
Dryden, ON P8N 2Z7

Facility NPRI identification number

928

The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.

5100

Number of full-time employees

348

North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes

31-33

3221

322112

The name, position and telephone number of the individual who is the contact at the facility for the public:

Public Contact

Bonny Skene

Title

Public Affairs Manager

Phone Number

807-223-9035

UTM coordinates, x and y

X 511258

Y 5514413

UTM Zone

15

Datum

1983

Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company

Parent company name

Domtar Inc

Address

395, de Maisonneuve Blvd. West

City

Montreal

Province

Quebec

Postal Code

H3A 1L6

Percent Ownership

100%

