

**Toxics Reduction Act Public Annual Report - Calendar 2020**

The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address.(See below)

Rayonier A.M. Kapuskasing
1 Government Road
P.O. Box 100
Kapuskasing ON
P5N 2Y2

Facility NPRI identification number

002173
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The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01.

5625
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Number of full-time employees

500
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North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes

31-33 - Manufacturing
3221 - Pulp, Paper & Paperboard Mills
322122 - Newsprint Mills

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

Public Contact (if applicable)

Ken Munnoch
Env. Mgr., Newsprint & Forest Products
705-337-9772

Title

Phone Number

Address of each person below if not the same as the facility

Facility Name

Address 1

Address 2

City

Province

Postal Code

Rayonier A.M. Kapuskasing
1 Government Road
P.O. Box 100
Kapuskasing
ON
P5N 2Y2

UTM coordinates, x and y

X	396647.6	Y	5473830
Datum			WGS84

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

Parent company name

Address 1

Address 2

City

Province

Postal Code

Percent Ownership

Rayonier A.M. Canada G.P.
4 Place Ville-Marie, Suite 100
Montréal
QC
H3B 2E7
100%

### Substance Accounting Information

Substance:	alpha-Pinene
CAS Number:	80-56-8
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	11.178 Mg
	0.000 Mg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Ammonia (total)
CAS Number:	NA - 16
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	159.509 Mg
The amount of substance that was contained in product:	0.000 Mg
	0.000 Mg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	beta-Phellandrene
CAS Number:	555-10-2
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	5.577 Mg
	0.000 Mg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	beta-Pinene
CAS Number:	127-91-3
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	8.410 Mg
	0.000 Mg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

### Substance Accounting Information

Substance:	Cadmium
CAS Number:	NA - 03

  

	Amount	Units
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance:	38.283	kg
The amount of substance that was created:	0.000	kg
The amount of substance that was contained in product:	11.900	kg

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

Substance:	Carbon Monoxide
CAS Number:	630-08-0

  

	Amount	Units
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	510.020	Mg
The amount of substance that was contained in product:	0.000	Mg

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

Substance:	d-Limonene
CAS Number:	5989-27-5

  

	Amount	Units
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	3.097	Mg
The amount of substance that was contained in product:	0.000	Mg

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

Substance:	Ethyl Alcohol
CAS Number:	64-17-5

  

	Amount	Units
On a facility-wide basis: Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	2.936	Mg
The amount of substance that was contained in product:	0.000	Mg

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

### Substance Accounting Information

Substance:	Formaldehyde
CAS Number:	50-00-0
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	1.545 Mg
	0.000 Mg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Isopropyl Alcohol
CAS Number:	67-63-0
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	4.503 Mg
	0.000 Mg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Lead
CAS Number:	NA - 08
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	173.913 kg
The amount of substance that was contained in product:	0.000 kg
	69.189 kg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

Substance:	Manganese
CAS Number:	NA - 09
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
The amount of substance that was created:	30.992 Mg
The amount of substance that was contained in product:	0.000 Mg
	8.281 Mg
On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a>	

### Substance Accounting Information

Substance:	Methanol
CAS Number:	67-56-1
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	13.968 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>	

Substance:	Methyl Isobutyl Ketone
CAS Number:	108-10-1
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	0.855 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>	

Substance:	Oxides of Nitrogen (as NO <sub>2</sub> )
CAS Number:	11104-93-1
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	255.782 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>	

Substance:	Particulate Matter
CAS Number:	NA - M08
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount      Units
	0.000 Mg
The amount of substance that was created:	20.680 Mg
The amount of substance that was contained in product:	0.000 Mg
<p>On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <a href="http://www.ec.gc.ca/inrp-npri/default.asp?lang=en">http://www.ec.gc.ca/inrp-npri/default.asp?lang=en</a></p>	

### Substance Accounting Information

Substance:	Particulate Matter - PM <sub>10</sub>
CAS Number:	NA - M09

  

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	10.361	Mg
The amount of substance that was contained in product:	0.000	Mg

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

Substance:	Particulate Matter - PM <sub>2.5</sub>
CAS Number:	NA - M10

  

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	0.000	Mg
The amount of substance that was created:	5.316	Mg
The amount of substance that was contained in product:	0.000	Mg

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

Substance:	Phosphorus (total)
CAS Number:	NA - 22

  

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	66.485	Mg
The amount of substance that was created:	0.000	Mg
The amount of substance that was contained in product:	0.000	Mg

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

Substance:	Selenium
CAS Number:	NA - 12

  

On a facility-wide basis:	Amount	Units
Amount that entered the facility as the substance itself or as a constituent of another substance:	83.969	kg
The amount of substance that was created:	0.000	kg
The amount of substance that was contained in product:	56.868	kg

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

### Substance Accounting Information

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:

Amount      Units

The amount of substance that was created:  
The amount of substance that was contained in product:

176.905	Mg
1.474	Mg
0.000	Mg

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

### Annual Progress Report - Calendar 2019

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Ammonia (total)	NA - 16
alpha-Pinene	80-56-8
beta-Phellandrene	555-10-2
beta-Pinene	127-91-3
Cadmium (and its compounds)	NA - 03
Carbon Monoxide	630-08-0
d-Limonene	5989-27-5
Ethyl Alcohol	64-17-5
Formaldehyde	50-00-0
Isopropyl Alcohol	67-63-0
Lead (and its compounds)	NA - 08
Manganese (and its compounds)	NA - 09
Methanol	67-56-1
Methyl Isobutyl Ketone	108-10-1
Oxides of Nitrogen (as NO <sub>2</sub> )	11104-93-1
Particulate Matter	NA - M08
Particulate Matter - PM10	NA - M09
Particulate Matter - PM2.5	NA - M10
Phosphorus (total)	NA - 22
Selenium	NA - 12
Sulphur Dioxide (currently below reporting threshold)	7446-09-5
Sulphuric Acid	7664-93-9

#### Plan Objectives

The reduction of toxic substance use, creation and releases is a priority for Rayonier AM forming part of our sustainability programs and EMS. Our goal is to reduce the use and release of the above noted substances where technically and economically feasible by the timetable noted in the plan. We will achieve these reductions through procedure improvements and employee education and training. It is important to note that most of the substances noted above are naturally in the wood materials used by the facility and that most current research seeks to abate these emissions using end of pipe controls.

### Toxics Reduction Progress

A comparison of the reportable substances for 2019 and 2020 indicates that there were no new substances reported for 2020. In terms of quantities of the substances reported, in general the current reporting year saw several changes in several of report categories mainly due to changes in production levels which saw an overall decrease of the total TMP produced (~36% reduction) and finished newsprint produced (~37% reduction). These decreases accounted for the decreased quantities of trace metals “contained in product” as well as the decrease in the quantity of Methanol “created” and released. There was also a reduction in the quantity of aqua ammonia used by the effluent treatment plant in 2020 which resulted in a decrease in the quantity of this substance reported as “used” by the facility. Conversely, the quantities of Phosphorus used increased due to an increase in the quantity of Phosphoric Acid used by the effluent treatment operations in 2020 relative to 2019. The quantity of kiln dried lumber produced also increased over the previous reporting period (~25% increase). This resulted in an increase in the quantity of Beta-Phellandrene created and released during the reporting period.

Decreased quantities of particulate matter species created and released are primarily due to an overall decrease in production at the facility due to COVID-19. The increase in the quantity of Cadmium released in the treated effluent in 2020 is due to a correction made to the calculations spreadsheet which previously referenced an incorrect cell for the total quantity of effluent released annually.

### Plan Implementation Progress

Steps taken during the reporting period were those outlined in the plan for these substances and include operational steps for continuous improvement in steam management and kiln operations. There were no deviations from or amendments made to the plan in the reporting period. The timetable outlined in the plan will be met.

There were no reductions directly attributable to any reduction options noted in the plans although it is important to note that Rayonier AM continues to make procedural improvements which may not necessarily be captured as an overall reduction in the quantity of a substance used, created or released due to the nature in which these quantities are calculated (i.e., as an absolute value as opposed to a per unit of production value).

### Certification Statement - Calendar 2020

As of August 20, 2021, I certify that I have read the reports on the toxic substance reduction plans for the above noted substances 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 the Act.

The original version of this report is signed off by:

Highest Ranking Employee:

Title:

Phone Number:

Pascal Champoux
General Manager
705-337-1311

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.