**Toxics Reduction Act Public Annual Report 2019**

| | |
|---|---|
| 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) | RYAM Lumber Hearst Sawmill<br>67 Fontaine Drive<br>P.O. Box 880<br>Hearst ON<br>P0L 1N0 |
| Facility NPRI identification number | 7232 |
| The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01. | - |
| Number of full-time employees | 122 |
| North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes | 31-33 - Manufacturing<br>3211 - Sawmills & Wood Preservation<br>321111 - Sawmills |

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 |
| Title | Env. Mgr., Newsprint & Forest Products Group |
| Phone Number | (705) 337-9772 |

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

| | |
|---|---|
| Facility Name | RYAM Lumber Hearst Sawmill |
| Address 1 | 67 Fontaine Drive |
| Address 2 | P.O. Box 880 |
| City | Hearst |
| Province | ON |
| Postal Code | P0L 1N0 |

| | | | | |
|---|---|---|---|---|
| UTM coordinates, x and y | X | 307951.4 | Y | 5507884.7 |
| Datum | | | | WGS84 |

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

| | |
|---|---|
| Parent company name | Rayonier A.M. Canada G.P. |
| Address 1 | 4 Place Ville-Marie, Suite 100 |
| Address 2 | |
| City | Montréal |
| Province | QC |
| Postal Code | H3B 2E7 |
| Percent Ownership | 100% |

**Substance Accounting Information**

| | |
|---|---|
| Substance: | alpha-Pinene |
| CAS Number: | 80-56-8 |

| 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: | 5.254 | 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: | beta-Pinene |
| CAS Number: | 127-91-3 |

| 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: | 1.980 | 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: | Methanol |
| CAS Number: | 67-56-1 |

| 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: | 3.711 | 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: | PM10 |
| 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: | 1.348 | Mg |
| The amount of substance that was contained in product: | NA | 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

## Comparison of Annual Reported Amounts

| | |
|---|---|
| Substance: | alpha-Pinene |
| CAS Number: | 80-56-8 |

| On a facility-wide basis: | 2019 | 2018 | Difference | |
|---|---|---|---|---|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Mg | Mg | Mg | % |
| The amount of substance that was created: | 0.000 | 0.000 | 0.000 | 0 |
| The amount of substance that was contained in product: | 5.254 | 5.114 | 0.140 | 2.7% |
| | 0.000 | 0.000 | 0.000 | 0 |

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: | beta-Pinene |
| CAS Number: | 127-91-3 |

| On a facility-wide basis: | 2019 | 2018 | Difference | |
|---|---|---|---|---|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Mg | Mg | Mg | % |
| The amount of substance that was created: | 0.000 | 0.000 | 0.000 | 0 |
| The amount of substance that was contained in product: | 1.980 | 1.927 | 0.053 | 2.8% |
| | 0.000 | 0.000 | 0.000 | 0 |

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

**Comparison of Annual Reported Amounts**

| | |
|---|---|
| Substance: | Methanol |
| CAS Number: | 67-56-1 |

| On a facility-wide basis: | 2019 | 2018 | Difference | |
|---|---|---|---|---|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Mg | Mg | Mg | % |
| | 0.000 | 0.000 | 0.000 | 0 |
| The amount of substance that was created: | 3.711 | 3.612 | 0.099 | 2.7% |
| The amount of substance that was contained in product: | 0.000 | 0.000 | 0.000 | 0 |

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: | PM10 |
| CAS Number: | NA-M09 |

| On a facility-wide basis: | 2019 | 2018 | Difference | |
|---|---|---|---|---|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Mg | Mg | Mg | % |
| | 0.000 | 0.000 | 0.000 | 0 |
| The amount of substance that was created: | 1.348 | 1.345 | 0.003 | 0.2% |
| The amount of substance that was contained in product: | 0.000 | 0.000 | 0.000 | 0 |

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

Substances for which toxic substance reduction plans have been prepared:

| Substance | CASRN | Notes |
|---|---|---|
| alpha-Pinene | 80-56-8 | |
| beta-Pinene | 127-91-3 | |
| Methanol | 67-56-1 | |
| Particulate Matter less than or equal to 10 microns ($PM_{10}$) | NA-M09 | |
| Particulate Matter less than 2.5 microns ($PM_{2.5}$) | NA-M10 | Below reporting threshold |

**Plan Objectives**

RYAM Lumber's goal is to reduce the creation of alpha-Pinene, beta-Pinene, Methanol, $PM_{10}$, and $PM_{2.5}$ 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 methanol and its precursors are naturally in the wood materials used by the facility and that most current research seeks to abate methanol and VOC emissions using end of pipe controls. There are currently no reduction options that have been identified for PM10 and PM2.5 that are both technically and economically feasible for these substances.

**Toxics Reduction Progress**

The estimated quantity of alpha-Pinene, beta-Pinene, and Methanol created and released by the facility increased slightly during the current reporting period which is reflective of a slight increase in the annual production of kiln dried lumber at the site relative to the previous reporting period. The annual kiln dried lumber quantity increased by approximately 2.7% in 2019 when compared to the 2018 value. Quantities of PM10 created and released are essentially unchanged from the previous reporting period.

**Plan Implementation Progress**

Steps taken during the reporting period were those outlined in the plan for this substance and include operational improvements related to lumber drying specifically green lumber sorting and standard operating procedures for the kilns (ONT-SPF-446-04-v2 – Acrolein) which were completed previously. There were no deviations from or amendments made to the plan in the reporting period. The timetable outlined in the plan has been met. Based on the above noted steps being implemented, there were no estimated reductions in the quantities of the applicable substances created and released over the 2018 quantity that were attributable to the plan. The estimated reductions of these substances will be continued to be monitored over the following years to ensure the overall targets are met.

As of June 22, 2020, 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 are 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: | Gilles Fontaine |
| Title: | General Manager |
| Phone Number: | (705) 335-9137 |

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.