

**Toxics Reduction Act Public Annual Report 2015**

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)

Tembec Chapleau Sawmill	
175 Planer Road	
Chapleau	ON
POM 1K0	

Facility NPRI identification number

10397
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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.

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Number of full-time employees

174
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North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes

31-33 - Manufacturing
3211 - Sawmills & Wood Preservation
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)

Linda Coates
VP – Human Resources and Corporate Affairs
(416) 775-2819

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

Tembec Chapleau Sawmill	
175 Planer Road	
Chapleau	
	ON
	POM 1K0

UTM coordinates, x and y

Datum

X	318489.7	Y	5301986.7
			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

Tembec	
10, chemin Gatineau	
Temiscaming	
	QC
	J0Z 3R0
	100%

### Substance Accounting Information

Substance:	Manganese and its compounds
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 46.114 Mg
The amount of substance that was created:	0.000 Mg
The amount of substance that was contained in product:	23.608 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:	Cadmium and its compounds
CAS Number:	NA - 03
On a facility-wide basis:	
Amount that entered the facility as the substance itself or as a constituent of another substance:	Amount    Units 41.086 kg
The amount of substance that was created:	0.000 kg
The amount of substance that was contained in product:	31.497 kg
<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:	Lead and its compounds
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 BT kg
The amount of substance that was created:	BT kg
The amount of substance that was contained in product:	BT kg
<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:	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:	5.775 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:  
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:  
The amount of substance that was contained in product:

Amount	Units
0.000	Mg
7.622	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>

Substance:  
CAS Number:

beta-Phellandrene
555-10-2

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:

Amount	Units
0.000	Mg
4.356	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>

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:  
The amount of substance that was contained in product:

Amount	Units
0.000	Mg
4.447	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>

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:  
The amount of substance that was contained in product:

Amount	Units
0.000	Mg
1.252	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>

### Substance Accounting Information

Substance:	Oxides of Nitrogen
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:	85.793 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:	Carbon Monoxide
CAS Number:	630-08-0
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:	200.251 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:	41.724 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:	PM10
CAS Number:	NA - M09
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:	31.088 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:  
CAS Number:

PM2.5
NA - M10

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
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The amount of substance that was created:

28.374	Mg
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The amount of substance that was contained in product:

0.000	Mg
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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:  
CAS Number:

Manganese and its compounds
NA - 09

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

2015	2014	Difference	
Mg	Mg	Mg	%
46.114	46.467	-0.353	-0.8%
0.000	0.000	0.000	0.0%
23.608	22.261	1.347	NA

The amount of substance that was created:

The amount of substance that was contained in product:

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:  
CAS Number:

Cadmium and its compounds
NA - 03

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

2014	2013	Difference	
kg	kg	kg	%
41.086	58.786	-17.701	-30.1%
0.000	0.000	0.000	0.0%
31.497	29.699	1.798	NA

The amount of substance that was created:

The amount of substance that was contained in product:

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:  
CAS Number:

Lead and its compounds
NA - 08

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

2014	2013	Difference	
kg	kg	kg	%
BT	607.338	NA	NA
BT	0.000	NA	NA
BT	172.674	NA	NA

The amount of substance that was created:

The amount of substance that was contained in product:

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:																					
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Substance:	Alpha-Pinene																				
CAS Number:	80-56-8																				
On a facility-wide basis:																					
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Substance:	beta-Phellandrene																				
CAS Number:	555-10-2																				
On a facility-wide basis:																					
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Substance:	beta-Pinene																				
CAS Number:	127-91-3																				
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**Comparison of Annual Reported Amounts**

Substance:	Ethyl Alcohol			
CAS Number:	64-17-5			
On a facility-wide basis:	2014	2013	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	0.0%
The amount of substance that was created:	1.252	1.139	0.113	10.0%
The amount of substance that was contained in product:	0.000	0.000	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 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:	Oxides of Nitrogen			
CAS Number:	11104-93-1			
On a facility-wide basis:	2014	2013	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	0.0%
The amount of substance that was created:	85.793	78.403	7.390	9.4%
The amount of substance that was contained in product:	0.000	0.000	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 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:	Carbon Monoxide			
CAS Number:	630-08-0			
On a facility-wide basis:	2014	2013	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	0.0%
The amount of substance that was created:	200.251	182.938	17.313	9.5%
The amount of substance that was contained in product:	0.000	0.000	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 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:	Particulate Matter			
CAS Number:	NA - M08			
On a facility-wide basis:	2014	2013	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	0.0%
The amount of substance that was created:	41.724	38.865	2.859	7.4%
The amount of substance that was contained in product:	0.000	0.000	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 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>				

**Comparison of Annual Reported Amounts**

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



**Annual Progress Report - Calendar 2015**

Substances for which toxic substance reduction plans have been prepared:

Substance	CASRN
Manganese and its compounds	NA - 09
Cadmium and its compounds	NA - 03
Lead and its compounds	NA - 08
Methanol	67-56-1
alpha-Pinene	80-56-8
beta-Phellandrene	555-10-2
beta-Pinene	127-91-3
Ethyl Alcohol	64-17-5
Nitrogen Oxides	11104-93-1
Carbon Monoxide	630-08-0
Total Particulate Matter (PM <sub>TPM</sub> )	NA - M08
Particulate Matter ≤10 microns (PM <sub>10</sub> )	NA - M09
Particulate Matter ≤2.5 microns (PM <sub>2.5</sub> )	NA - M10

**Plan Objectives**

The reduction of toxic substance use, creation and releases is a priority for Tembec 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**

As is shown in the table, in general reported substance quantities increased in 2015 relative to 2014 due to an overall increase in the annual production. In the case of the volatile species, including Alpha-Pinene, Beta-Phellandrene, and Methanol, the changes are attributable to an overall increase in the quantity of kiln dried lumber produced by the facility in 2015 relative to 2014 as well as changes to the wood supply ratio. Increases in NPRI Part 4 substances are due to the increased annual production as well as an increase in the quantity of biomass used by the cogeneration facility and the shavings boiler. In the case of Cadmium, Lead and Manganese, the reduced quantity used and disposed is due to updated concentration factors for the ash sent to disposal. These factors were based on the average results of a series of tests completed on the ash in 2015.

Note that in the case of metals, the current assessment includes a quantity as being contained "in product". These values were calculated using the annual quantity of lumber, sawdust and chips produced and concentration factors for these substances presented in the updated NCASI NPRI guide for stemwood. Once the reporting threshold for a substance has been met, the quantity of this substance needs to be tracked through the entire mill under the TRA regulation. This means that regardless of the concentration of this substance in a particular material, such as the lumber produced, the quantity of this substance needs to be reported.

**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). There were no deviations from or amendments made to the plan in the reporting period. The timetable outlined in the plan will be met.

As of May 28, 2016, 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:

Ron Martel
General Manager
(705) 864-3000

# Report Submission and Electronic Certification

## NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Tembec

Certifying Official (or authorized delegate)

Ron Martel

Report Submitted by

Ron Martel

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

## ON MOE TRA - Electronic Certification Statement

### Annual Report Certification Statement

#### TRA Substance List

CAS RN	Substance Name
11104-93-1	Nitrogen oxides (expressed as NO2)
630-08-0	Carbon monoxide
NA - 03	Cadmium (and its compounds)

NA - 09

Manganese (and its compounds)

NA - M08

Total Particulate Matter

NA - M09

PM10 - Particulate Matter

NA - M10

PM2.5 - Particulate Matter

NA - M16

Volatile Organic Compounds (VOCs)

## Exit Record Certification Statement

### TRA Exit Record Substances

**CAS RN**

**Substance Name**

NA - 08

Lead (and its compounds)

Company Name

Tembec

Highest Ranking Employee

Ron Martel

Report Submitted by

Ron Martel

Website address

[www.tembec.com/en/responsibility/responsible-manufacturing](http://www.tembec.com/en/responsibility/responsible-manufacturing)

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

### Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
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2015

28/05/2016

Chapleau  
Sawmill

Ontario

Chapleau

NPRI, ON MOE  
TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.