

TEMBEC - KAPUSKASING OPERATIONS

1 GOVERNMENT ROAD, KAPUSKASING, ONTARIO P5N 2Y2

TOXICS REDUCTION ACT TOXIC SUBSTANCE REDUCTION PLAN SUMMARIES 2012

REPORT PREPARED BY:

O2E INC.

REPORT PREPARED FOR:

KERI BERNARD

TEMBEC

DECEMBER 19, 2012

LONDON

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Table of Contents

1.	PLAN SUMMARY – CADMIUM (AND ITS COMPOUNDS)	3
1.1	Basic Facility Information	3
1.2	Toxic Reduction Policy Statement of Intent	3
1.3	Reduction Objectives	4
1.4	Description of Substance	4
1.5	Toxic Substance Reduction Option to be Implemented	4
1.6	Plan Summary Statement	5
1.7	Copy of Plan Certification	5
2.	PLAN SUMMARY – FORMALDEHYDE	6
2.1	Basic Facility Information	6
2.2	Toxic Reduction Policy Statement of Intent	6
2.3	Reduction Objectives	7
2.4	Description of Substance	7
2.5	Toxic Substance Reduction Option to be Implemented	7
2.6	Plan Summary Statement	8
2.7	Copy of Plan Certification	8
3.	PLAN SUMMARY – LEAD (AND ITS COMPOUNDS)	9
3.1	Basic Facility Information	9
3.2	Toxic Reduction Policy Statement of Intent	9
3.3	Reduction Objectives	10
3.4	Description of Substance	10
3.5	Toxic Substance Reduction Option to be Implemented	10
3.6	Plan Summary Statement	11
3.7	Copy of Plan Certification	11
4.	PLAN SUMMARY – MANGANESE (AND ITS COMPOUNDS)	12
4.1	Basic Facility Information	12
4.2	Toxic Reduction Policy Statement of Intent	12
4.3	Reduction Objectives	13
4.4	Description of Substance	13
4.5	Toxic Substance Reduction Option to be Implemented	13
4.6	Plan Summary Statement	14
4.7	Copy of Plan Certification	14
5.	PLAN SUMMARY - METHANOL	15
5.1	Basic Facility Information	15
5.2	Toxic Reduction Policy Statement of Intent	15
5.3	Reduction Objectives	16

5.4	Description of Substance	16
5.5	Toxic Substance Reduction Option to be Implemented	16
5.6	Plan Summary Statement.....	17
5.7	Copy of Plan Certifications	17
6.	PLAN SUMMARY – SULPHURIC ACID	18
6.1	Basic Facility Information	18
6.2	Toxic Reduction Policy Statement of Intent.....	18
6.3	Reduction Objectives	19
6.4	Description of Substance	19
6.5	Toxic Substance Reduction Option to be Implemented	19
6.6	Plan Summary Statement.....	20
6.7	Copy of Plan Certification.....	20
7.	BASIC FACILITY INFORMATION	21
8.	COPY OF PLAN CERTIFICATION	22

1. PLAN SUMMARY – CADMIUM (AND ITS COMPOUNDS)

Name and CASRN of Substance	Cadmium (and its compounds)	Not Applicable
Substances for which other plans have been prepared	Methanol	67-56-1
	Formaldehyde	50-00-0
	Lead (and its compounds)	Not Applicable
	Manganese (and its compounds)	Not Applicable
	Sulphuric Acid	7664-93-9

1.1 Basic Facility Information

Basic facility information has been included in Section 7 of this document.

1.2 Toxic Reduction Policy Statement of Intent

Tembec’s corporate vision is to be an industry leader in value creation by being the best steward of resources: human, capital and forest.

In 2000, Tembec was the first major Canadian forest products company to implement across all of its operations an Environmental Management System (EMS) that complies with the ISO 14001 standard. Our EMS provides a rigorous management structure that is applied in all Tembec manufacturing and forest operations under our control. The EMS is an internationally recognized set of environmental best management practices that guides all activities that have a relationship with the environment. The EMS facilitates the achievement of important sustainability objectives and programs, such as maximizing environmental performance in manufacturing, and maintaining Forest Stewardship Council® (FSC®) certification in all forestry operations.

Tembec shares with the community important responsibilities towards the environment in which we live and work. The Corporation supports the responsible stewardship of resources, including forest, fish and aquatic habitat, wildlife, air, land and water. Responsible stewardship, combined with a continual improvement process, makes possible sustained economic development and an improved quality of life. In this spirit, Tembec commits to implementing and maintaining an effective environmental management program that will govern its attitude and action in environmental matters and will benefit the environment, the community, the shareholders, employees and customers.

Wherever feasible, Tembec will reduce the use and release of Cadmium (and its compounds) in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Tembec, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

1.3 Reduction 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 Cadmium (and its compounds) 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 Cadmium and compounds 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.

1.4 Description of Substance

Cadmium (and its compounds) is naturally occurring in the wood waste used to produce steam in the facility's three wood waste fibre combustors.

1.5 Toxic Substance Reduction Option to be Implemented

The following option has been identified for implementation to reduce the use and release of Cadmium (and its compounds):

- Process Modification – replacement of steam wood kilns with natural gas fired kilns
- Improved Operating Practices – continuous improvement of boiler efficiencies and steam use.
- Improved Operating Practices – revised energy management program.

Cadmium (and its compounds) reductions due to implementing the options above are as follows:

Company Name: Tembec

Substance: Cadmium (and its compounds)

CASRN: Not applicable

Reduction Option: Process Modification and Improved Operating Practices

	Used	Created	In Product	On-site Releases			Disposals		Recycling
				Air	Water	Land	On-site	Off-site	Off-site
Baseline	24.859	0	0	1.003	0	0	0	23.852	0
Estimated reduced amount	23.380	0	0	0.060	0	0	0	22.426	0
Reduction	1.479	0	0	0.943	0	0	0	1.428	0
% Reduction	6%	NA	NA	6%	NA	NA	NA	6%	NA

Note: All values are presented in kilograms (kg) per year unless noted.

1.6 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for Cadmium (and its compounds), prepared on behalf of Tembec, dated December 14, 2012.

1.7 Copy of Plan Certification

A copy of the plan certification is presented in Section 8 of this document.

2. PLAN SUMMARY – FORMALDEHYDE

Name and CASRN of Substance	Formaldehyde	50-00-0
Substances for which other plans have been prepared	Methanol	67-56-1
	Cadmium (and its compounds)	Not Applicable
	Lead (and its compounds)	Not Applicable
	Manganese (and its compounds)	Not Applicable
	Sulphuric Acid	7664-93-9

2.1 Basic Facility Information

Basic facility information has been included in Section 7 of this document.

2.2 Toxic Reduction Policy Statement of Intent

Tembec's corporate vision is to be an industry leader in value creation by being the best steward of resources: human, capital and forest.

In 2000, Tembec was the first major Canadian forest products company to implement across all of its operations an Environmental Management System (EMS) that complies with the ISO 14001 standard. Our EMS provides a rigorous management structure that is applied in all Tembec manufacturing and forest operations under our control. The EMS is an internationally recognized set of environmental best management practices that guides all activities that have a relationship with the environment. The EMS facilitates the achievement of important sustainability objectives and programs, such as maximizing environmental performance in manufacturing, and maintaining Forest Stewardship Council® (FSC®) certification in all forestry operations.

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Wherever feasible, Tembec will reduce the creation and discharge of Methanol in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Tembec, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

2.3 Reduction 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 creation of Formaldehyde 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 Formaldehyde and its precursors are naturally in the wood materials used by the facility and that most current research seeks to abate Formaldehyde and VOC emissions using end of pipe controls.

2.4 Description of Substance

Formaldehyde and Formaldehyde precursors are naturally occurring in the wood chips used by the facility to produce paper and the wood waste used to produce steam in the facility's three wood waste fibre combustors. Formaldehyde is also created as a by-product through the drying of green lumber. Evaporation of moisture containing Formaldehyde and Formaldehyde precursors in the green lumber results in the release of Formaldehyde to the atmosphere.

2.5 Toxic Substance Reduction Option to be Implemented

The following option has been identified for implementation to reduce the creation and release of Formaldehyde:

- Process Modification – green lumber sorting based on moisture content to prevent over and under drying of lumber in the wood kilns.
- Process Modification – low consistency pulp refiners.
- Improved Operating Practices – monitoring of lumber moisture content to prevent over-drying of the lumber in the wood kilns.

Formaldehyde reductions due to implementing the options above are as follows:

Company Name: Tembec
Reduction Option: Process Modifications and
Improved Operating Practices

Substance: Formaldehyde
CASRN: 50-00-0

	Used	Created	In Product	On-site Releases			Disposals		Recycling
				Air	Water	Land	On-site	Off-site	Off-site
Baseline	0	2.299	0	2.299	0	0	0	0	0
Estimated reduced amount	0	2.208	0	2.208	0	0	0	0	0
Reduction	0	0.091	0	0.091	0	0	0	0	0
% Reduction	NA	3.96%	NA	3.96%	NA	NA	NA	NA	NA

Note: All values are presented in metric tonnes (Mg) per year unless noted.

2.6 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for Formaldehyde, prepared on behalf of Tembec, dated December 14, 2012.

2.7 Copy of Plan Certification

A copy of the plan certification is presented in Section 8 of this document.

3. PLAN SUMMARY – LEAD (AND ITS COMPOUNDS)

Name and CASRN of Substance	Lead (and its compounds)	Not Applicable
Substances for which other plans have been prepared	Methanol	67-56-1
	Cadmium (and its compounds)	Not Applicable
	Formaldehyde	50-00-0
	Manganese (and its compounds)	Not Applicable
	Sulphuric Acid	7664-93-9

3.1 Basic Facility Information

Basic facility information has been included in Section 7 of this document.

3.2 Toxic Reduction Policy Statement of Intent

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Wherever feasible, Tembec will reduce the use and release of Lead (and its compounds) in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Tembec, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

3.3 Reduction 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 Lead (and its compounds) 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 Lead and compounds 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.

3.4 Description of Substance

Lead (and its compounds) are naturally occurring in the wood waste used to produce steam in the facility's three wood waste fibre combustors.

3.5 Toxic Substance Reduction Option to be Implemented

The following option has been identified for implementation to reduce the use and release of Lead (and its compounds):

- Process Modification – replacement of steam wood kilns with natural gas fired kilns
- Improved Operating Practices – continuous improvement of boiler efficiencies and steam use.
- Improved Operating Practices – revised energy management program.

Lead (and its compounds) reductions due to implementing the options above are as follows:

Company Name: Tembec

Substance: Lead (and its compounds)

CASRN: Not Applicable

Reduction Option: Process Modification and Improved Operating Practices

	Used	Created	In Product	On-site Releases			Disposals		Recycling
				Air	Water	Land	On-site	Off-site	Off-site
Baseline	102.316	0	0	10.159	4.731	0	0	87.426	0
Estimated reduced amount	96.183	0	0	9.555	4.447	0	0	82.225	0
Reduction	6.133	0	0	0.604	0.284	0	0	5.201	0
% Reduction	6%	NA	NA	6%	6%	NA	NA	6%	NA

Note: All values are presented in kilograms (kg) per year unless noted.

3.6 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for Lead (and its compounds), prepared on behalf of Tembec, dated December 14, 2012.

3.7 Copy of Plan Certification

A copy of the plan certification is presented in Section 8 of this document.

4. PLAN SUMMARY – MANGANESE (AND ITS COMPOUNDS)

Name and CASRN of Substance	Manganese (and its compounds)	Not Applicable
Substances for which other plans have been prepared	Methanol	67-56-1
	Cadmium (and its compounds)	Not Applicable
	Formaldehyde	50-00-0
	Lead (and its compounds)	Not Applicable
	Sulphuric Acid	7664-93-9

4.1 Basic Facility Information

Basic facility information is included in Section 7 of this document.

4.2 Toxic Reduction Policy Statement of Intent

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Wherever feasible, Tembec will reduce the creation and discharge of Manganese in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Tembec, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

4.3 Reduction 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 Manganese (and its compounds) 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 Manganese and compounds 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.

4.4 Description of Substance

Manganese (and its compounds) are naturally occurring in the wood waste used to produce steam in the facility’s three wood waste fibre combustors.

4.5 Toxic Substance Reduction Option to be Implemented

The following option has been identified for implementation to reduce the creation and release of Manganese (and its compounds):

- Process Modification – replacement of steam wood kilns with natural gas fired kilns
- Improved Operating Practices – continuous improvement of boiler efficiencies and steam use
- Improved Operating Practices – revised energy management program.

Manganese reductions due to implementing the options above are as follows:

Company Name: Tembec

Substance: Manganese (and its compounds)

CASRN: Not Applicable

Reduction Option: Process Modification and Improved Operating Practices

	Used	Created	In Product	On-site Releases			Disposals		Recycling
				Air	Water	Land	On-site	Off-site	Off-site
Baseline	23.169	0	0	0.079	3.246	0	0	19.843	0
Estimated reduced amount	21.779	0	0	0.074	3.051	0	0	18.652	0
Reduction	1.390	0	0	0.005	0.195	0	0	1.191	0
% Reduction	6%	NA	NA	6%	6%	NA	NA	6%	NA

Note: All values are presented in metric tonnes (Mg) per year unless noted.

4.6 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for Manganese (and its compounds) prepared on behalf of Tembec, dated December 14, 2012.

4.7 Copy of Plan Certification

A copy of the plan certification is presented in Section 8 of this document.

5. PLAN SUMMARY - METHANOL

Name and CASRN of Substance	Methanol	67-56-1
Substances for which other plans have been prepared	Cadmium (and its compounds)	Not Applicable
	Formaldehyde	50-00-0
	Lead (and its compounds)	Not Applicable
	Manganese (and its compounds)	Not Applicable
	Sulphuric Acid	7664-93-9

5.1 Basic Facility Information

Basic facility information is included in Section 7 of this document.

5.2 Toxic Reduction Policy Statement of Intent

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In 2000, Tembec was the first major Canadian forest products company to implement across all of its operations an Environmental Management System (EMS) that complies with the ISO 14001 standard. Our EMS provides a rigorous management structure that is applied in all Tembec manufacturing and forest operations under our control. The EMS is an internationally recognized set of environmental best management practices that guides all activities that have a relationship with the environment. The EMS facilitates the achievement of important sustainability objectives and programs, such as maximizing environmental performance in manufacturing, and maintaining Forest Stewardship Council® (FSC®) certification in all forestry operations.

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Wherever feasible, Tembec will reduce the creation and release of Methanol in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Tembec, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

5.3 Reduction 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 creation of Methanol 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.

5.4 Description of Substance

Methanol and Methanol precursors are naturally occurring in the wood chips used by the facility to produce paper and the wood waste used to produce steam in the facility's three wood waste fibre combustors. Methanol is also created as a by-product through the drying of green lumber. Evaporation of moisture containing Methanol and Methanol precursors in the green lumber results in the release of Methanol to the atmosphere.

5.5 Toxic Substance Reduction Option to be Implemented

The following option has been identified for implementation to reduce the creation and release of methanol:

- Process Modification – green lumber sorting based on moisture content to prevent over and under drying of lumber in the wood kilns.
- Process Modification – low consistency pulp refiners.
- Improved Operating Practices – monitoring of lumber moisture content to prevent over-drying of the lumber in the wood kilns.

Methanol reductions due to implementing the options above are as follows:

Company Name: Tembec

Substance: Methanol

CASRN: 67-56-1

Reduction Option: Process Modifications and Improved Operating Practices

	Used	Created	In Product	On-site Releases			Disposals		Recycling
				Air	Water	Land	On-site	Off-site	Off-site
Baseline	0	24.168	0	24.152	0.016	0	0	0	0
Estimated reduced amount	0	22.298	0	22.828	0	0	0	0	0
Reduction	0	1.870	0	1.870	0	0	0	0	0
% Reduction	NA	7.7%	NA	7.7%	NA	NA	NA	NA	NA

Note: All values are presented in metric tonnes (Mg) per year unless noted.

5.6 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for methanol, prepared on behalf of Tembec, dated December 14, 2012.

5.7 Copy of Plan Certifications

A copy of the plan certifications are presented at the end of this document.

6. PLAN SUMMARY – SULPHURIC ACID

Name and CASRN of Substance	Sulphuric Acid	7664-93-9
Substances for which other plans have been prepared	Methanol	67-56-1
	Cadmium (and its compounds)	Not Applicable
	Formaldehyde	50-00-0
	Lead (and its compounds)	Not Applicable
	Manganese (and its compounds)	Not Applicable

6.1 Basic Facility Information

Basic facility information is included in Section 7 of this document.

6.2 Toxic Reduction Policy Statement of Intent

Tembec's corporate vision is to be an industry leader in value creation by being the best steward of resources: human, capital and forest.

In 2000, Tembec was the first major Canadian forest products company to implement across all of its operations an Environmental Management System (EMS) that complies with the ISO 14001 standard. Our EMS provides a rigorous management structure that is applied in all Tembec manufacturing and forest operations under our control. The EMS is an internationally recognized set of environmental best management practices that guides all activities that have a relationship with the environment. The EMS facilitates the achievement of important sustainability objectives and programs, such as maximizing environmental performance in manufacturing, and maintaining Forest Stewardship Council® (FSC®) certification in all forestry operations.

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Wherever feasible, Tembec will reduce the use and release of Sulphuric Acid in full compliance with all federal and provincial regulations. Toxic substance reduction will be an ongoing effort at Tembec, and we will continue to monitor technological advancements to ensure that options that are both technologically and financially viable are implemented at our facility.

6.3 Reduction 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 of Sulphuric Acid where technically and economically feasible by the timetable noted in the plan. We will achieve these reductions through improved operating practices.

6.4 Description of Substance

Sulphuric acid is used by the steam plant to regenerate the cation resin in the water treatment softeners. It is also used by the paper mill to control the pH of the prepared stock and newsprint. Small quantities of sulphuric acid are also created by the combustion of wood waste and wastewater treatment sludges in the facility's three wood waste fibre combustors.

6.5 Toxic Substance Reduction Option to be Implemented

The following option has been identified for implementation to reduce the creation and release of Sulphuric Acid:

- Improved Operating Practices – continuous improvement of boiler efficiencies and steam use.

Sulphuric Acid reductions due to implementing the option above are as follows:

Company Name: Tembec

Substance: Sulphuric Acid

CASRN: 7664-93-9

Reduction Option: Improved Operating Practices

	Used	Created	In Product	On-site Releases			Disposals		Recycling
				Air	Water	Land	On-site	Off-site	Off-site
Baseline	353.535	1.993	0	1.993	0	0	0	0	0
Estimated reduced amount	347.203	1.953	0	1.953	0	0	0	0	0
Reduction	6.332	0.040	0	0.040	0	0	0	0	0
% Reduction	1.8%	2%	NA	2%	NA	NA	NA	NA	NA

Note: All values are presented in metric tonnes (Mg) per year unless noted.

6.6 Plan Summary Statement

This plan accurately reflects the content of the toxic substance reduction plan for Sulphuric Acid, prepared on behalf of Tembec, dated December 14, 2012.

6.7 Copy of Plan Certification

A copy of the plan certification is presented at the end of this document.

7. BASIC FACILITY INFORMATION

Facility Identification and Site Address		
Company Name	Tembec	
Facility Name	Tembec Kapuskasing	
Facility Address	Physical Address:	Mailing Address
	1 Government Road Kapuskasing ON P5N 2Y2	1 Government Road P.O. Box 100 Kapuskasing ON P5N 2Y2
Spatial Coordinates (UTM)	396647.6 (Easting)	5473830 (Northing)
Datum	WGS84	
Number of Employees	480 (Full time equivalents)	
NPRI ID	002173	
ON MOE ID	5625	
Parent Company Information		
Parent Company Name & Address	Tembec 10, chemin Gatineau Témiscaming, PQ J0Z 3R0	
Percent Ownership	100%	
Primary North American Industrial Classification System Code (NAICS)		
2 Digit NAICS Code	31-33 Manufacturing	
4 Digit NAICS Code	3221 Pulp, Paper and Paperboard Manufacturing	
6 Digit NAICS Code	322122 Newsprint Mills	
Company Contact Information		
Facility Public Contact	Linda Coates, VP Communications and Public Affairs	Contact Address
	Linda.Coates@tembec.com	Tembec 405 The West Mall, Suite 800 Toronto, ON M9C 5J1
	Phone: 416-775-2819	
	Fax: 416 621-3119	

8. COPY OF PLAN CERTIFICATION

Certification by the Highest Ranking Employee

As of December 21, 2012, I, Andre Ouimette, certify that I have read the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the plans are factually accurate and comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substances:

Cadmium (and its compounds)	Manganese (and its compounds)
Lead (and its compounds)	Methanol
Formaldehyde	Sulphuric Acid

 , December 21, 2012

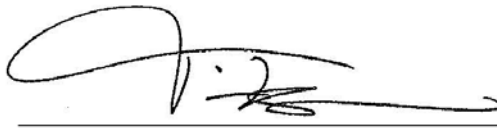
Andre Ouimette
General Manager
Tembec Kapuskasing Operations

Certification by Licensed Planner

As of December 19, 2012, I, Tim Logan certify that I am familiar with the processes at Tembec's Kapuskasing facility that use or create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plans dated December 19, 2012 and that the plans comply with that Act and Ontario Regulation 455/09 (General) made under that Act.

Toxic Substances:

Cadmium (and its compounds)	Manganese (and its compounds)
Lead (and its compounds)	Methanol
Formaldehyde	Sulphuric Acid

 , December 19, 2012

Tim Logan (License No. TSRP0003)
President
O2E Inc. Environmental Consultants

