

**2014 TOXIC SUBSTANCE REDUCTION PLAN SUMMARIES –  
Sulphur Dioxide**

**Total Particulate Matter (TPM)**

**Particulate Matter Less Than 10 Microns (PM10)**

**Particulate Matter Less Than 2.5 Microns (PM2.5)**



**Canada  
Malting**

A GrainCorp business

**2014 TOXIC SUBSTANCE REDUCTION PLAN SUMMARIES  
June 30, 2015**

Malt Processing Facility

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

**Canada Malting Company Ltd.**

**Malt Processing Facility**

**2014 Toxic Substance Reduction Plans**

**579 Maureen Street, Thunder Bay, Ontario**

Prepared by:

**True Grit Consulting Ltd.**

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Project Number: 15-360-05A

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June 30, 2015

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**Copy of Certifications**

**Certification by Highest Ranking Employee**

As of June 30, 2015, I, Jim Desaulniers, certify that I have read the toxic reduction plan for the toxic substances referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxic Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Sulphur Dioxide  
Total Particulate Matter  
Particulate Matter less than 10 Microns  
Particulate Matter less than 2.5 Microns



Jim Desaulniers  
Plant Manager  
Canada Malting Company Ltd.

### Certification by Toxic Substance Reduction Planner

As of June 30, 2015, I, Mike Stachejczuk certify that I am familiar with the processes at Canada Malting Company Ltd. – Malt Processing Facility that use or create the toxic substance 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 plan dated June 30, 2015 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Sulphur Dioxide  
Total Particulate Matter  
Particulate Matter less than 10 microns  
Particulate Matter less than 2.5 microns

*Mike Stachejczuk*

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Mike Stachejczuk, P. Eng.  
Certified Toxic Substance Reduction Planner (License TSRP0245)

# Canada Malt Company Ltd.'s Environmental Policy

## ENVIRONMENT POLICY



GrainCorp

GrainCorp's mission is to be an international leader in food ingredients and agribusiness, creating value by connecting consumers to growers along the grain chain. Our vision is to grow as our customers' preferred partner, driven by our passionate people and assets around the world.

Sustainability to GrainCorp means doing business in a way that cares for our people, our communities and the environment, while ensuring we are here for the long term. As a business involved in agriculture and food, we recognise that we are deeply connected to the health of the land and ecosystems. We are committed to minimising our environmental impact and stewarding the resources of the earth for future generations.

Our aim is to minimise the environmental impact of our operations through commitment to:

- Pro-actively assessing, monitoring and managing environmental impacts, risks and incidents while complying with regulatory requirements.
- Improving GrainCorp's resource efficiency, and addressing waste and pollution.
- Maintaining Environmental Management Systems which are aligned with recognised international standards.
- Establishing and regularly reviewing environmental objectives and targets to continually improve the company's environmental performance.
- Sharing the Environmental Policy with everyone working for, and on behalf of GrainCorp, and ensuring they are aware of their environmental responsibilities.
- Ensuring ongoing oversight and review at the highest levels.

The GrainCorp Managing Director & CEO, the Executive Leadership Team and all levels of management are responsible for implementing the Environmental Policy. We believe this policy reflects good business practice and enhances GrainCorp's economic, social and environmental sustainability.

Mark Palmquist  
Managing Director & CEO

October 2014



## Basic Facility Information

Basic Facility Information	
The legal and trade names of the owner and operator of the facility, the street and mailing address of the facility	Canada Malting Company Ltd. 579 Maureen Street Thunder Bay, ON P7B 6T9
Facility NPRI identification number	7432
The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01	Not applicable
Number of full-time employees	48
UTM Coordinates	X 0335197 Y 5364885
UTM Zone	16
Datum	1983
Legal name of Canadian parent company, the street and mailing address of the company	Canada Malting Co Ltd. 3316 Bonnybrook Street Southeast, Calgary, Alberta T2G 4M9
Percent Ownership	100%
Business Number for Parent Company	896611431
North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes	31-33 311214
Facility Public Contact	Jim Desaulniers Plant Manager (807) 346 7506
Facility Technical Contact	Jim Desaulniers Plant Manager (807) 346 7506
Toxic Substance Reduction Plan Coordinators & Preparers Planners Responsible for Making Recommendations & Certifying the Plans	Mike Stachejczuk Air/Noise Specialist (807) 626 5640 x 9203 TSRP0245
Highest Ranking Employee	Jim Desaulniers Plant Manager (807) 346 7506



# Sulphur Dioxide

CAS # 7446-09-5

## Plan Summary Statement

This toxic substance plan summary accurately reflects the version of the plan that was certified on June 30<sup>th</sup>, 2015 by Mr. Jim Desaulniers (Highest Ranking Employee) and Mr. Mike Stachejczuk (Certified Toxic Substance Reduction Planner).

## Statement of Intent

CMCL – Thunder Bay Malting Facility does not intend to reduce the creation of sulphur dioxide (SO<sub>2</sub>) at its facility because it is an essential substance that serves as a fungicide, bactericide and preservative in its malting process. CMCL is committed to minimizing its environmental impact and stewarding the resources of the earth for future generations.

## Objectives

CMCL – Thunder Bay Malting Facility does not intend to reduce the creation of SO<sub>2</sub> at its facility because it is an essential substance that serves as a fungicide, bactericide and preservative in its malting process. Based on the information gathered in this report, the amount of SO<sub>2</sub> created is not expected to significantly increase.

## Description of Why Toxic Substance is Used or Created

The SO<sub>2</sub> is created and used primarily as a fungicide, bactericide and preservative and to reduce N-Nitrosodimethylamine (NDMA) content in the malt. SO<sub>2</sub> is also created from natural gas heating units and diesel emergency generator combustion emit an insignificant amount of SO<sub>2</sub> to the environment.

## Options to be Implemented

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 sulphur dioxide.

## Estimated Reductions for Options to be Implemented

Not applicable.

## Timelines for Achieving Estimated Reductions

Not applicable.

## Projection of Effectiveness of Toxic Substance Reduction Plan

As no options were identified for implementation and there has not been a significant increase in the production of malt at the facility, the amount of SO<sub>2</sub> used is not expected to significantly increase.

# TPM

CAS # \*

## Plan Summary Statement

This toxic substance plan summary accurately reflects the version of the plan that was certified on June 30<sup>th</sup>, 2015 by Mr. Jim Desaulniers (Highest Ranking Employee) and Mr. Mike Stachejczuk (Certified Toxic Substance Reduction Planner).

## Statement of Intent

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of total particulate matter (TPM) because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. CMCL is committed to minimizing its environmental impact and stewarding the resources for future generations.

## Objectives

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of TPM because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. Based on the information gathered in this report, the amount of TPM created is not expected to significantly increase.

## Description of Why Toxic Substance is Used or Created

TPM is created as an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers.

## Options to be Implemented

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

## Estimated Reductions for Options to be Implemented

Not applicable.

## Timelines for Achieving Estimated Reductions

Not applicable.

## Projection of Effectiveness of Toxic Substance Reduction Plan

As no options were identified for implementation and there has not been a significant increase in the production of malt at the facility, the amount of TPM used is not expected to significantly increase

# PM10

CAS # \*

## Plan Summary Statement

This toxic substance plan summary accurately reflects the version of the plan that was certified on June 30<sup>th</sup>, 2015 by Mr. Jim Desaulniers (Highest Ranking Employee) and Mr. Mike Stachejczuk (Certified Toxic Substance Reduction Planner).

## Statement of Intent

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of particulate matter less than 10 microns (PM10) because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. CMCL is committed to minimizing its environmental impact and stewarding the resources for future generations.

## Objectives

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of PM10 because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. Based on the information gathered in this report, the amount of PM10 created is not expected to significantly increase.

## Description of Why Toxic Substance is Used or Created

PM10 is created as an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers.

## Options to be Implemented

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

## Estimated Reductions for Options to be Implemented

Not applicable.

## Timelines for Achieving Estimated Reductions

Not applicable.

## Projection of Effectiveness of Toxic Substance Reduction Plan

As no options were identified for implementation and there has not been a significant increase in the production of malt at the facility, the amount of PM10 used is not expected to significantly increase.

# PM2.5

CAS # \*

## Plan Summary Statement

This toxic substance plan summary accurately reflects the version of the plan that was certified on June 30<sup>th</sup>, 2015 by Mr. Jim Desaulniers (Highest Ranking Employee) and Mr. Mike Stachejczuk (Certified Toxic Substance Reduction Planner).

## Statement of Intent

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of particulate matter less than 2.5 microns (PM2.5) because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. CMCL is committed to minimizing its environmental impact and stewarding the resources for future generations.

## Objectives

CMCL's Malt Processing Facility in Thunder Bay does not intend to reduce its creation of PM2.5 because it is an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers. Based on the information gathered in this report, the amount of PM2.5 created is not expected to significantly increase.

## Description of Why Toxic Substance is Used or Created

PM2.5 is created as an unintentional by-product from material handling, kiln drying, combustion of natural gas and diesel and operation of cooling towers.

## Options to be Implemented

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.

## Estimated Reductions for Options to be Implemented

Not applicable.

## Timelines for Achieving Estimated Reductions

Not applicable.

## Projection of Effectiveness of Toxic Substance Reduction Plan

As no options were identified for implementation and there has not been a significant increase in the production of malt at the facility, the amount of PM2.5 used is not expected to significantly increase.