



**FLORADALE FEED MILL LIMITED**

**TOXIC SUBSTANCE REDUCTION  
PLAN SUMMARY**

**Manganese (and its compounds)  
Zinc (and its compounds)**

**Submitted to:**

Brain Chamberlain  
Operations Manager  
Flordale Feed Mill Limited  
2131 Flordale Road  
Flordale, Ontario  
N0B 1V0

**Submitted by:**

AMEC Americas Limited  
900 Maple Grove Road, Unit 10  
Cambridge, ON,

Date

December 20 2013

Project Number

TR1212046

## **TOXIC REDUCTION POLICY STATEMENT OF INTENT**

Floradale does not intend to reduce the amount of manganese and zinc used in its production of animal feeds.

However as Floradale is committed to protecting the environment, wherever feasible, the reduction of these substances will be implemented should alternatives that are both technically and economically feasible be identified. Our employees are encouraged to participate in all types of reduction activities but the toxic substances associated with Floradale operations are primary ingredients in our feeds to improve and maintain the health of livestock and companion animals or by-products created during the processing activities. An additional effort is also ongoing at the facility to reduce the discharge and disposal of these toxic substances as this is not only environmentally responsible operations it also indicates improved efficiencies in our processing operations.

Floradale Feed Mill Limited is deeply committed to the sustainability of the food chain from animal nutrition to human health. The safety of that food chain and an awareness of impacts on the environment and society are the foundations for sustainability. Ongoing research in animal nutrition will identify any opportunities to reduce or replace the use of potentially toxic substances for the environment while maintaining the quality of feed for optimal animal nutrition.

## **REDUCTION OBJECTIVES**

All employees at Floradale Feed Mill Limited will be involved in the reduction of toxic substance use, creation and releases. Manganese and Zinc are the priority substances identified in this phase of planning for the reduction associated with off-specification feed formulations and ultimate disposal of toxic containing materials as well as reducing the creation of the substances during handling and production. Floradale's goal is to continue to reduce the amount of feed disposed of that contain manganese and/or zinc where technically and economically feasible. Floradale Feed Mill Limited is committed to animal health and nutrition and as advances in nutritional research occur any changes in the source of nutritional supplements will be incorporated into Floradale's feed formulation as it is granted approval by the appropriate governing bodies and found to be an economically viable alternative. Therefore, there are no options being implemented at this time.

## **PLAN SUMMARY STATEMENT**

This plan summary accurately reflects the content of the toxic substance reduction plan for manganese and zinc, prepared on behalf of Floradale Feed Mill Ltd. dated 19 December 2013.

## BASIC FACILITY INFORMATION

Company Name: Floradale Feed Mill Limited

Contact Information:

Highest Ranking Employee: Craig Schwindt  
President  
519-669-5478  
[craigs@ffmltd.com](mailto:craigs@ffmltd.com)

Technical Contact: Brian Chamberlain  
Operations Manager  
519-669-5478  
[brianc@ffmltd.com](mailto:brianc@ffmltd.com)

Certified Planner: Beth Rhyno P.Eng.  
License Number TSRP0273  
Compliance Team Leader  
AMEC Americas, Environment & Infrastructure  
519-650-7100 ext. 6105  
[beth.rhyno@amec.com](mailto:beth.rhyno@amec.com)

Parent Company: Floradale Feed Mill Limited  
100% ownership

Facility Address: 2131 Floradale Road  
Floradale, Ontario  
N0B 1V0

UTM Locator (NAD83): Zone - 17  
533851E; 4830854N

Business Number: 101825560

The facility's NPRI ID: 0000010220

In 2011, Floradale Feed Mill Ltd. employed about 80 full time employees (equivalent).

The NAICS codes applicable to the facility are:

31	- Manufacturing
3111	- Animal Food Manufacturing
311119	- Other Animal Food Manufacturing

The site utilizes two (2) MOE prescribed Phase 1 Toxic compounds: manganese and zinc. The substances are utilized as essential nutritional ingredients in the multiple animal feed products developed during production. As both of the substances are essential nutritional requirements for livestock feed, one collective TRA plan has been developed.

The CAS numbers for the MOE Toxic Compounds are:

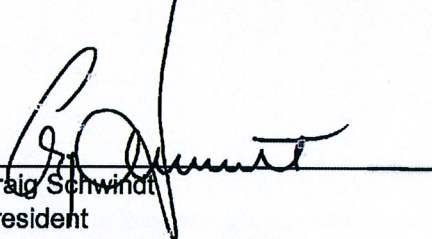
Manganese (and its compounds)	NA-09
Zinc (and its compounds)	NA-14



**CONFIRMATION STATEMENT OF THE HIGHEST RANKING EMPLOYEE**

As of 20 December 2013, I, Craig Schwindt, confirm that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and, with the exception of the deadline, the plan meets all other requirements of the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.


Manganese (and its compounds)	NA-09
Zinc (and its compounds)	NA-14

  
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Craig Schwindt  
President  
Floradale Feed Mill Limited

**CONFIRMATION STATEMENT OF THE LICENSED PLANNER**

As of 20 December 2013, I, Beth Rhyno, confirm that I am familiar with the processes at the Floradale Feed Mill Ltd. facility that use or create the toxic substance referred to below, that I agree with the estimates that are set out in the plan dated Dec 20 2013 and that the plan, with the exception of the deadline, meets all other requirements of Ontario Regulation 455/09 (General) made under the Toxic Reductions Act.

Manganese (and its compounds)	NA-09
Zinc (and its compounds)	NA-14

  
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Beth Rhyno, P.Eng.  
Licensed Toxic Reduction Planner (Ontario): License Number TSRP0273  
Compliance Team Leader  
AMEC Americas, Environment & Infrastructure