

**Rothsay – Moorefield**  
**a division of Darling International Canada**

**TOXIC SUBSTANCE REDUCTION PLAN SUMMARY**  
**for Ammonia (NH<sub>3</sub>)**

**Submitted to:**

**Rothsay – Moorefield: Darling International Canada**  
**8406 Wellington County Road**  
**Moorefield, ON, N0G 2K0**

**Submitted by:**

**AMEC Environment & Infrastructure**  
**900 Maple Grove Road, Unit 10**  
**Cambridge ON, N3H 4R7**



**December 31<sup>st</sup>, 2013**

## **Toxic Reduction Policy Statement of Intent**

Rothsay – Moorefield, a division of Darling International Canada, does not intend to reduce the creation of ammonia as it is created from the organic content in the wastewater process and dependant on the feed materials. Rendering is an environmental responsible process to transform the raw material (inedible animal by-products) to useable feed ingredients. The organic nature of the raw material results in the transfer and generation of ammonia to the wastewater stream. There has been a significant investment in the wastewater system , where technically feasible , to optimize the wastewater handling and treatment system to ensure the ammonia is not released into the natural environment beyond regulated concentrations. Rothsay is committed to reducing the use, creation, or transfer of toxic substances in its process wherever it is found to be technically and economically feasible.

## **Reduction Objective**

Rothsay-Moorefield is committed to having all employees to be actively involved in the reduction of toxic substance use, creation and releases. Ammonia is created as a result of the processing of organic, animal by-product materials. Currently there is no technically feasible technology or technique that would remove, reduce or limit the ammonia content within the animal by-products prior to the matter being received at the Rothsay facility.

## **Plan Summary Statement**

This plan summary accurately reflects the content of the toxic substance reduction plan for ammonia prepared on behalf of Rothsay-Moorefield dated 31 December 2013. There is currently no technically feasible option for Rothsay-Moorefield to reduce the creation of ammonia in the wastewater stream as it is inherent to the raw materials being processed and transferred to the wastewater for on-site treatment.

## **Basic Facility Information**

Company Name: Darling International  
Rothsay  
8406 Wellington County Rd  
Moorefield, ON N0G 2K0

Contact Information:

Highest Ranking Employee:	Scott Henry Plant Manager 519- 638-3081 x246 <a href="mailto:scott.henry@rothsay.ca">scott.henry@rothsay.ca</a>
Technical Contact:	Brad Shiell Environmental Supervisor 519-638-3081 x271 <a href="mailto:brad.shiell@rothsay.ca">brad.shiell@rothsay.ca</a>
Certified Planner:	Beth Rhyno, P.Eng – TSRP#00273 Compliance Team Leader AMEC Americas, Environment and Infrastructure 900 Maple Grove Road, Unit 10 Cambridge, ON, N3H 4R7 519-650-7100 ext. 6105 <a href="mailto:beth.rhyno@amec.com">beth.rhyno@amec.com</a>
Plant Location (UTM):	Zone 17 522897E; 4851298N
Canadian Head Office:	Darling International Canada 150 Research Lane, Suite 307 Guelph, ON 519-780-3342
US Parent Company:	Darling Ingredients Inc. 251 O'Connor Ridge Blvd., Suite 300 Irving, TX 76034
The facility's NPRI ID:	2068
NAICS Code:	311614

In 2012 Rothsay-Moorefield employed about 90 full time employees (equivalent).

Ammonia is a toxic substance that is a by-product created on-site as a result of processing the animal by-products through the rendering process. The number associated with the TRA reporting through NPRI for Ammonia is NA-16.

### **Certification by Highest Ranking Employee**

As of 31 December 2013, I, Scott Henry, certify that I have read the toxic substance reduction plan for ammonia and am familiar with its content, 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.



Scott Henry, Plant Manager  
Rothsay, Darling International

31 December 2013

Date

### **Toxics Substance Reduction Planner**

As of December 31, 2013, I, Beth Rhyno, P.Eng., certify that I am familiar with the process at Darling International - Rothsay's Moorefield facility that use or create the toxic substances referred to below, that I agree with the estimates referred to paragraph 7 iii, iv and v of subsection 4(1) of the **Toxic Reduction Act, 2009** that are set out in the plan dated May 31<sup>st</sup>, 2013 and that plan complies with that Act and **Ontario Regulation 455/09 (General)** made under that Act.

Ammonia (NH3) NA-16



Beth Rhyno, P.Eng.  
Compliance Team Leader  
AMEC, Cambridge ON

TSRP#00273

License Number

31 December 2013

Date