

**Plan Summary  
Ammonia (Total)**

**Atlantic Packaging Products Ltd.  
111 Progress Facility**

## Basic Facility Information

<b>Name and CAS Number of Substance</b>	Ammonia (Total) – CAS No. NA-16	
<b>Substances for which other plans have been prepared</b>	Phosphorus (Total) – CAS No. NA-01 Carbon monoxide – CAS No. 630-08-0 Oxides of nitrogen (expressed as NO <sub>2</sub> ) – CAS No. 11104-93-1 Sulphur Dioxide – CAS No. 744-09-5 PM <sub>2.5</sub> (Particulate Matter <=2.5 microns) – CAS No. NA - M09 PM <sub>10</sub> (Particulate Matter <=10 microns) – CAS No. NA - M10 Hexachlorobenzene – CAS No. 118-74-1 Dioxins/Furans – N/A	
<b>Facility Identification and Site Address</b>		
<b>Company Name</b>	Atlantic Packaging Products Ltd. – 111 Progress	
<b>Facility Name</b>	Atlantic Packaging Products Ltd. – 111 Progress	
<b>Facility Address</b>	Physical Address:	Mailing Address: (if different)
	<b>111 Progress Avenue</b> Scarborough, ON M1P 2Y9	Same as physical address
<b>Spatial Coordinates of Facility</b>	Latitude: 43.7718, Longitude: -79.2735, Datum: 1983 UTM, Easting: 638650 m, Northing: 4847997 m	
<b>Number of Employees</b>	457	
<b>NPRI ID</b>	5688	
<b>Ontario MOE ID Number</b>	6162	
<b>Parent Company (PC) Information</b>		
<b>PC Name and Address</b>	Atlantic Packaging Products Ltd.	111 Progress Avenue Scarborough, ON M1P 2Y9
<b>Percent Ownership for each PC</b>	50%	
<b>Business Number for PC</b>	100326008	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
<b>2 Digit NAICS Code</b>	32 - Manufacturing	
<b>4 Digit NAICS Code</b>	3221 - Pulp, Paper & Paperboard Mills	
<b>6 Digit NAICS Code</b>	322130 - Paperboard Mills	
<b>Certification Information</b>		
<b>Reduction Planner who made Recommendations to the Plan</b>	Martinez, Erik	651 Colby Drive Waterloo, ON N2V 1C2
	Conestoga-Rovers & Associates (CRA)	
	emartinez@croworld.com	
	519.884.0510 x 2342	
<b>Reduction Planner who Certified the Plan</b>	Martinez, Erik	651 Colby Drive Waterloo, ON N2V 1C2
	Conestoga-Rovers & Associates (CRA)	
	emartinez@croworld.com	
	519.884.0510 x 2342	
<b>Company Contac Information</b>		
<b>Facility Public Contact</b>	Fatima Correia	Contact Address if different from Facility Address
	Environmental Manager	Same address as facility
	fatima_correia@atlantic.ca	
	Phone: (416) 298-5431	
Fax: (416) 297-2292		
<b>Highest Ranking Employee</b>	Leo Easton	Contact Address if different from Facility Address
	Linerboard Mill Manager	Same address as facility
	Leo_Easton@Atlantic.ca	
	Phone: (416) 298-5310	

## Plan Summary Statement

This plan summary accurately reflects the content of the toxic substance reduction plan for ammonia, prepared by Atlantic Packaging Products Ltd, dated Dec 23, 2013.

## Statement of Intent

Atlantic Packaging 111 Progress facility is currently using ammonia solution as a nutrient source for the microorganisms in the effluent treatment plant. There is no creation of ammonia in the facility. Atlantic intends to reduce the usage and release of all toxic substances, whenever feasible.

## Reduction Objective

Atlantic Packaging is committed to protect the environment through continual improvement of its manufacturing processes and the prevention of pollution. The objective for 111 Progress facility is to reduce the usage of ammonia through the implementation of viable options, if any. This plan will determine the technical and economic feasibility of various reduction options, and identify if any is viable for implementation.

## Description of substance

Ammonia solution is used at the effluent treatment plant as a nutrient for the microorganisms in the biological treatment. Ammonia is also contained in chemicals used for cleaning at the paper mill.

## Toxic substance reduction option to be implemented

The following option has been identified for implementation to reduce the use, creation and releases of ammonia:

- Replace the current ammonia solution with a chemical with less ammonia and more nitrogen sources (urea). Ammonia usage will be reduced. The final implementation depends on the actual results obtained during the trial period, since it is needed to confirm the quality performance of the chemical, and the accessibility of the nutrients (nitrogen) to the microorganisms.

Ammonia anticipated reductions due to the implementation of the option are as follows:

**Table 1.** Ammonia variations in usage, creation and release with implementation of the Material substitution option: Ammonia Solution Substitution

	Used (kg/year)	Created (kg/year)	On-Site Releases (kg/year)			Disposal (kg/year)		Transfer Off-site for recycling (kg/year)	Contained in product (kg/year)
			Air	Water	Land	On-site	Off-site		
Baseline	45,202 kg	--	4.6 kg	--	--	--	--	--	--
Estimated amount	10,748 kg	--	4.6 kg	--	--	--	--	--	--
Reduction	34,454 kg	--	0.0	--	--	--	--	--	--
% Reduction	76.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

It is expected the reduction will be achieved in 30 months.

## Plan Certifications

Certification by highest ranking employee

As of Dec 19, 2013, I, Leo Easton, certify that I have read the reports on the toxic substance reduction plan for the toxic substance referred to below and am familiar with their contents, and to my knowledge the information contained in the report is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

NA - 16                      Ammonia (total)



**Leo Easton**  
Linerboard Mill Manager  
Atlantic Packaging Products Ltd.

Certification by toxic substance reduction planner

As of December 23, 2013, I, Erik Martinez, certify that I am familiar with the processes at Atlantic Packaging Products Ltd 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 December 23, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

NA - 16                      Ammonia (total)

 12/23/13

Erik Martinez, P.Eng.  
Planner License #TSRPO005  
Conestoga-Rovers & Associates Ltd.