



# Public Summary Report Under O. Reg. 455/09 Toxic Substance Reduction Plans

IGPC Ethanol Inc.

December 9, 2015



## BASIC FACILITY INFORMATION

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<b>Substances Included in the Plan</b>		
<ul style="list-style-type: none"> <li>• Particulate Matter <math>\leq 2.5\mu\text{m}</math> (CAS No. NA-M10)</li> <li>• Particulate Matter <math>\leq 10\mu\text{m}</math> (CAS No. NA-M09)</li> <li>• Nitrogen Oxides (CAS No. 11104-93-1)</li> <li>• Carbon Monoxide (CAS No. 630-08-0)</li> </ul>		
<b>Facility Identification and Site Address</b>		
<b>Company Name</b>	Integrated Grain Processors Co-operative Inc. (IGPC Ethanol Inc.)	
<b>Facility Name</b>	IGPC Ethanol Inc. – Aylmer Plant	
<b>Facility Address</b>	<b>Physical Address:</b>	<b>Mailing Address:</b>
	89 Progress Drive, Aylmer, ON N5H 2R9	P.O. Box 205, Aylmer, ON N5H 2R9
<b>Spatial Coordinates of Facility</b>	Easting: 502005 m, Northing: 4736654 m (Zone 17, NAD 83 Datum)	
<b>Number of Employees</b>	56	
<b>NPRI ID</b>	11696	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
<b>2 Digit NAICS Code</b>	32 – Manufacturing	
<b>4 Digit NAICS Code</b>	3251 – Basic Chemical Manufacturing	
<b>6 Digit NAICS Code</b>	325190 – Other Basic Organic Chemical Manufacturing	
<b>Facility and Planner Contact Information</b>		
<b>Facility Public Contact &amp; Facility TSRP Coordinator Contact</b>	Jim Grey, CEO	<b>IGPC Ethanol Inc.</b> 89 Progress Drive, Aylmer, ON N5H 2R9
	Email: <a href="mailto:jgrey@igpc.ca">jgrey@igpc.ca</a>	
	Phone: (519) 765-2575	
<b>Planner Responsible for Making Recommendations and Certification</b>	Brad Bergeron	4510 Rhodes Drive, Unit 530 Windsor, Ontario N8W 5K5
	Planner Licence No.: TSRP0242	
	Email: <a href="mailto:brad.bergeron@rwdi.com">brad.bergeron@rwdi.com</a>	
	Phone: (519) 823-1311 x 2428	



## PLAN SUMMARY FOR EACH SUBSTANCE

<b>PARTICULATE MATTER <math>\leq 2.5\mu\text{m}</math> (CAS NO. NA – M10)</b>	
<b>Statement of Intent</b>	
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to continuous improvement, IGPC Ethanol Inc. intends to reduce or minimize the use of the TRA listed substances wherever possible.	
<b>Objectives</b>	
IGPC Ethanol Inc. does not intend to implement a reduction option for Particulate Matter $\leq 2.5$ micrometres (PM2.5). PM2.5 is created primarily through the combustion of natural gas and handling of grain for the production of ethanol. The facility is operating responsibly, using the cleanest type of fossil fuel available (natural gas). The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	
<b>Description of Creation of Substance</b>	
PM2.5 is created mostly through the combustion of natural gas, diesel fuel combustion, cooling tower operations, as well as through the handling of grain and other processes.	
<b>Rationale for No Option(s) to be Implemented</b>	
In accordance with s. 4(1)6 of the Toxic Reduction Act, the IGPC Ethanol facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options due to increased production in 2015 and subsequent years. The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	

*This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and IGPC Ethanol Inc. facility for PM2.5, dated December 9, 2015.*



<b>PARTICULATE MATTER <math>\leq 10\mu\text{m}</math> (CAS NO. NA – M09)</b>	
<b>Statement of Intent</b>	
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to continuous improvement, IGPC Ethanol Inc. intends to reduce or minimize the use of the TRA listed substances wherever possible.	
<b>Objectives</b>	
IGPC Ethanol Inc. does not intend to implement a reduction option for Particulate Matter $\leq 10$ micrometres (PM10). PM10 is created primarily through the combustion of natural gas and handling of grain for the production of ethanol. The facility is operating responsibly, using the cleanest type of fossil fuel available (natural gas). The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	
<b>Description of Creation of Substance</b>	
PM2.5 is created mostly through the combustion of natural gas, diesel fuel combustion, cooling tower operations, as well as through the handling of grain and other processes.	
<b>Description Option(s) to be Implemented</b>	
In accordance with s. 4(1)6 of the Toxic Reduction Act, the IGPC Ethanol facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options due to increased production in 2015 and subsequent years. The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	

*This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and IGPC Ethanol Inc. facility for PM10, dated December 9, 2015.*



<b>NITROGEN OXIDES (CAS NO. 11104-93-1)</b>	
<b>Statement of Intent</b>	
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to continuous improvement, IGPC Ethanol Inc. intends to reduce or minimize the use of the TRA listed substances wherever possible.	
<b>Objectives</b>	
IGPC Ethanol Inc. does not intend to implement a reduction option for Nitrogen Oxides. Nitrogen Oxides are created primarily through the combustion of natural gas. The facility is operating responsibly, using the cleanest type of fossil fuel available (natural gas). The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	
<b>Description of Creation of Substance</b>	
Nitrogen Oxides are mainly generated through the combustion of mixtures of fuels (largely natural gas).	
<b>Description Option(s) to be Implemented</b>	
In accordance with s. 4(1)6 of the Toxic Reduction Act, the IGPC Ethanol facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options due to increased production in 2015 and subsequent years. The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	

*This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and IGPC Ethanol Inc. facility for Nitrogen Oxides, dated December 9, 2015.*



<b>CARBON MONOXIDE (CAS NO. 630-08-0)</b>	
<b>Statement of Intent</b>	
In accordance with s. 4(1)1 of the Toxics Reduction Act and the Facility commitment to continuous improvement, IGPC Ethanol Inc. intends to reduce or minimize the use of the TRA listed substances wherever possible.	
<b>Objectives</b>	
IGPC Ethanol Inc. does not intend to implement a reduction option for Carbon Monoxide. Carbon Monoxide is created primarily through the combustion of natural gas. The facility is operating responsibly, using the cleanest type of fossil fuel available (natural gas). The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	
<b>Description of Creation of Substance</b>	
Carbon Monoxide is mainly generated through the combustion of mixtures of fuels (largely natural gas).	
<b>Description Option(s) to be Implemented</b>	
In accordance with s. 4(1)6 of the Toxic Reduction Act, the IGPC Ethanol facility has completed a detailed technical, and in some cases an economical, review of all proposed options within the seven mandatory categories and as a result of this in-depth evaluation, is choosing not to implement any of the options due to increased production in 2015 and subsequent years. The IGPC facility is modern with state of the art process tracking and controls, staffed by a knowledgeable team and will continue to operate in this manner in an effort to continue improving efficiencies through continual improvements efforts on a day to day basis.	

*This plan summary accurately reflects the Toxic Reduction Plan that has been prepared by RWDI AIR Inc. and IGPC Ethanol Inc. facility for Carbon Monoxide, dated December 9, 2015.*



IGPC Ethanol Inc.

### Certification by Highest Ranking Employee

As of December 9, 2015, I, Jim Grey, 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.

Substance

Date of Certified Plan

- |  |                  |
|--|------------------|
| ▪ Particulate Matter $\leq 2.5\mu\text{m}$ (CAS No. NA – M10)..... | December 9, 2015 |
| ▪ Particulate Matter $\leq 10\mu\text{m}$ (CAS No. NA – M09).....  | December 9, 2015 |
| ▪ Nitrogen Oxides (CAS No. 11104-93-1).....                        | December 9, 2015 |
| ▪ Carbon Monoxide (CAS No. 630-08-0).....                          | December 9, 2015 |



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Jim Grey  
CEO  
IGPC Ethanol Inc.



IGPC Ethanol Inc.

### **Certification by Licensed Planner**

As of December 9, 2015, I, Brad Bergeron, certify that I am familiar with the processes at IGPC Ethanol Inc. 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 toxic substance reduction plans referred to below for the toxic substances and that the plans comply with the Act and Ontario Regulation 455/09 (General) made under that Act.

<u>Substance</u>	<u>Date of Certified Plan</u>
▪ Particulate Matter $\leq 2.5\mu\text{m}$ (CAS No. NA – M10).....	December 9, 2015
▪ Particulate Matter $\leq 10\mu\text{m}$ (CAS No. NA – M09).....	December 9, 2015
▪ Nitrogen Oxides (CAS No. 11104-93-1).....	December 9, 2015
▪ Carbon Monoxide (CAS No. 630-08-0).....	December 9, 2015

Brad Bergeron, Planner License #0242  
Senior Project Manager / Toxic Substance Reduction Planner  
RWDI AIR Inc.