

**O.Reg. 455/09 Toxic Substance Reduction Plan Summary  
Ford Motor Company of Canada - Essex Engine Plant**

<b>Substance &amp; CAS No:</b>	Nitrogen Oxides	11104-93-1
<b>Other Substances at the Facility for which a Plan has been developed:</b>	Copper (and its compounds)	N/A
	Manganese (and its compounds)	N/A
	Carbon Monoxide	630-08-0
	Particulate Matter ≤ 10 micron	N/A
	Particulate Matter ≤ 2.5 micron	N/A
<b>Facility Identification and Site Address</b>		
<b>Company Name</b>	Essex Manufacturing	
<b>Facility Name</b>	Essex Engine Plant	
<b>Facility Address</b>	<b>Physical Address</b>	<b>Mailing Address (if different)</b>
	1 Quality Way Windsor, Ontario N9A 6X3	same as physical address
<b>Spatial Coordinates of Facility</b>	340918 m E, 4684629 m N	<i>Expressed as UTM within NAD</i>
<b>Number of Employees</b>	781	
<b>NPRI ID Number</b>	3886	
<b>Ontario MOE ID Number</b>	-	
<b>Parent Company Information</b>		
<b>Parent Company Name</b>	Ford Motor Company of Canada Limited	
<b>Parent Company Address</b>	100 The Canadian Road, Oakville, ON, L6J 5E4	
<b>Percent Ownership</b>	100%	
<b>Parent Company Contact</b>	Blake Smith	
<b>Primary North American Industrial Classification System Code (NAICS)</b>		
	<b>Code</b>	<b>Description</b>
<b>2-digit NAICS Code</b>	33	Manufacturing
<b>4-digit NAICS Code</b>	3363	Motor Vehicle Parts Manufacturing
<b>6-digit NAICS Code</b>	336312	Engines & Parts, Automotive & Truck, Manufacturing
<b>Company Contact Information</b>		
<b>Facility public contact</b>	<b>Name</b>	Blake Smith
	<b>Title</b>	Director EEVS
	<b>Email</b>	<a href="mailto:bsmith29@ford.com">bsmith29@ford.com</a>
	<b>Telephone #</b>	905-845-2511 x.1209
	<b>Fax #</b>	905-845-5360
		The Canadian Road Oakville, Ontario L6J 5E4
<b>Toxic Substance Reduction Planner Information</b>		
<b>Planner Responsible for Making Recommendations</b>	<b>Name</b>	Shannon Belleau
	<b>Company</b>	Dillon Consulting Limited
	<b>License #</b>	TSRP0155
	<b>Email</b>	<a href="mailto:sbelleau@dillon.ca">sbelleau@dillon.ca</a>
	<b>Telephone #</b>	519-948-5000 x.3258
	<b>Fax #</b>	519-948-5054
<b>Planner Responsible for Certification</b>	<b>Name</b>	Shannon Belleau
	<b>Company</b>	Dillon Consulting Limited
	<b>License #</b>	TSRP0155
	<b>Email</b>	<a href="mailto:sbelleau@dillon.ca">sbelleau@dillon.ca</a>
	<b>Telephone #</b>	519-948-5000 x.3258
	<b>Fax #</b>	519-948-5054
		3200 Deziel Drive Suite 608 Windsor, Ontario N8W 5K8

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<b>Plan Summary Statement</b>
This plan summary accurately reflects the content of the toxic substance reduction plan for Nitrogen Oxides, prepared by Essex Engine Plant, dated December 18, 2013.
<b>Statement of Intent</b>
Ford Motor Company of Canada intends to reduce the creation of Nitrogen Oxides at the Essex Engine Plant located in Windsor, Ontario by implementing selected reduction options.
<b>Objective</b>
Essex Engine Plant will reduce the creation of Nitrogen Oxides by implementing equipment modifications and improved operating procedures.
<b>Description of Substance and Use/Creation</b>
For a description of how, when, where and why Nitrogen Oxides are created, including quantifications for accounting and process flow diagrams, see the "2012 Toxic Substance Accounting for TRA & O.Reg. 455/09" Report, prepared by Dillon Consulting Limited and located at the Environmental Engineer's desk.

Option Category	Option Description	Options to be Implemented									Timeline to Achieve Reductions	
		Estimated Reductions (tonne/yr and %)										
		Use	Creation	Release to Air	Release to Water	Release to Land	On-Site Disposal	Off-Site Disposal	Off-Site Recycle	Contained In Product		
3. Equipment or process modification	Continue to investigate reducing the temperature set points for natural gas equipment.	N/A	<0.05 tonne/yr	<0.05 tonne/yr	N/A	N/A	N/A	N/A	N/A	N/A	N/A	July 2015
			<0.1%	<0.1%								
7. Training or improved operating practices	Continue to institute operating practices to improve natural gas heating equipment run-time and improve energy conservation communication to employees: 1) By assessing external temperatures and adjusting run-time accordingly; 2) By improving weekend "turn down" by identifying further areas that can be turned down or shut-off during weekend hours.	N/A	<0.05 tonne/yr	<0.05 tonne/yr	N/A	N/A	N/A	N/A	N/A	N/A	N/A	December 2014
			<0.1%	<0.1%								

**Certifications (s. 19)**

**Highest Ranking Employee**

As of December 18, 2013, I, Shaun Whitehead, certify 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 complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Nitrogen Oxides

HRE:

*Shaun Whitehead*

Date: 12-18-13

**Toxic Substance Reduction Planner**

As of December 18, 2013, I, Shannon Belloan, certify that I am familiar with the processes at Essex Engine Plant 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 18, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

Nitrogen Oxides

TSRP:

*Shannon Belloan*

Date:

Dec 18 / 2013