Toxics Reduction Act – Public Summary Report – 2015 Reporting Year

Ford Motor Company – Oakville Assembly Complex

A. FACILITY INFORMATION

The Oakville Assembly Complex operates as an automotive assembly plant for the production of the Ford Edge, Ford Flex, Lincoln MKX and Lincoln MKT. The main facility processes consist of body building, painting and assembly.

Address	The Canadian Road Oakville, Ontario L6J 5C9
Spatial Coordinates	Zone 17, 607468 m E, 4816131 m N
NPRI/MOE IDs	NPRI = 3419 MOE = 6763
No. of Employees	4,990
Primary Operation	Automobile Assembly Plant
NAICS Code(s)	33 – Manufacturing 3361 – Motor Vehicle Manufacturing 336110 - Automobile and Light Duty Motor Vehicle Manufacturing
Facility Contact	Mr. Robert Niemi Ford Motor Company Environmental Quality Office 290 Town Center Drive Dearborn, Michigan 48123 Phone: (313) 206-8034 Email: rniemi1@ford.com
Parent Company	Ford Motor Company of Canada Limited 100 The Canadian Road Oakville, Ontario L6J 5E4

B. TOXIC SUBSTANCE ACCOUNTING

Substances Reported	CAS#	Primary Use/Source
NPRI Part 1 Substances		
Asbestos	1332-21-4	Demolition wastes
Di-2-ethylhexyl Phthalate	117-81-7	Sealers
Ethylbenzene	100-41-4	Solvents
Ethylene glycol	107-21-1	Radiator coolant
Ethylene glycol monobutyl ether	111-76-2	Solvents / E-coat
Isobutyl alcohol	78-83-1	Paints / solvents
Isopropanol	67-63-0	Paints / solvents
Manganese (and its compounds)	n/a	Vehicle body / Phosphate coating
Methyl alcohol	67-56-1	Windshield wash solution
Methyl isobutyl ketone	108-10-1	Solvents / E-coat
Nitric Acid	7697-37-2	Phosphate coating
n-Butyl alcohol	71-36-3	Solvents
Sodium Nitrite	7632-00-0	Phosphate coating/radiator coolant
Sulphuric acid	7664-93-9	Wastewater treatment
Toluene	108-88-3	Paints / solvents
1,2,4-Trimethylbenzene	95-63-6	Paints / solvents
Xylene	1330-20-7	Paints / solvents
Zinc (and its compounds)	n/a	Vehicle body / sealers
NPRI Part 4 Substances		
NO_x	11104-93-1	Fuel combustion
CO	630-08-0	Fuel combustion
PM_{10}	n/a	Spray coating / fuel combustion
$PM_{2.5}$	n/a	Spray coating / fuel combustion

NPRI Part 5 Substances		
Butane	n/a	Fuel combustion
Diethylene glycol monobutyl ether	112-34-5	Paints / solvents
Ethylene glycol monobutyl ether acetate	112-07-2	Paints / solvents
Heavy aromatic solvent naphtha	64742-94-5	Paints / solvents
Hexane	n/a	Fuel combustion
Hydrotreated heavy naphtha	64742-48-9	Paints / solvents
Hydrotreated light distillate	64742-47-8	Paints / solvents
Light aromatic solvent naphtha	64742-95-6	Paints / solvents
Methyl ethyl ketone	78-93-3	Purge solvents
n-Butyl acetate	123-86-4	Paints / solvents
n-Heptane	142-82-5	Paints / solvents
Pentane	n/a	Fuel combustion
Propane	74-98-6	Fuel combustion
Solvent naphtha medium aliphatic	64742-88-7	Paints / solvents
Trimethylbenzene	25551-13-7	Paints / solvents
O.Reg. 127/01 Substances		
Acetone	67-64-1	Purge solvents

Accounting Details

Substance/Category	Accounting Quantities				Reason for Change
	2014	2015	Annual Comparison		
	(tonne)	(tonne)	(tonne)	(%)	
Asbestos					
Used	>100 to 1,000	n/a	(-)>100 to 1,000	(-)100%	Bulk disposal of demolition waste in 2014.
Created	0	n/a	n/a	n/a	n/a
Contained in Product	0	n/a	n/a	n/a	n/a
Released to Air	0	n/a	n/a	n/a	n/a
Released to Water	0	n/a	n/a	n/a	n/a
Transfer for Disposal	113.7	n/a	(-)113.7	(-)100%	Bulk disposal of demolition waste in 2014.
Transfer for Recycle	0	n/a	n/a	n/a	n/a
Di-2-ethylhexyl phthalate					
Used	n/a	>10 to 100	n/a	n/a	New reportable substance for 2015; previous years usage did not meet the 10 tonne MPO reporting requirement. Increased usage of a sealer product containing Di-2-ethylhexyl phthalate triggered reporting.
Created	n/a	0	n/a	n/a	
Contained in Product	n/a	0	n/a	n/a	
Released to Air	n/a	0.639	n/a	n/a	
Released to Water	n/a	n/a	n/a	n/a	
Transfer for Disposal	n/a	0.161	n/a	n/a	
Transfer for Recycle	n/a	n/a	n/a	n/a	
Ethylbenzene					
Used	>10 to 100	>100 to 1,000	>1 to 10	4.9%	No significant change in usage.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	>0 to 1	0	n/a	n/a	Decreased quantity of vehicle fluids containing ethylbenzene.
Released to Air	39.57	43.77	4.20	0.11%	No significant change in air release.

Released to Water	0	0	n/a	0.00%	No significant change in water release.
Transfer for Disposal	0.018	0.003	(-)0.015	(-)84%	Decreased usage of spray coatings and general use products containing ethylbenzene.
Transfer for Recycle	41.9	41.77	(-)0.128	(-)0.31%	No significant change in off-site recycles.
Ethylene glycol					
Used	>100 to 1,000	>1,000 to 10,000	(-)>100 to 1,000	(-)20%	Decreased usage of products containing ethylene glycol, specifically engine coolant.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	>100 to 1,000	>1,000 to 10,000	(-)>100 to 1,000	(-)20%	Decreased usage of products containing ethylene glycol.
Released to Air	0	0	n/a	n/a	No significant change in air release.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.116	0.093	(-)0.023	(-)20%	Decreased usage of products containing ethylene glycol.
Transfer for Recycle	0	0	n/a	n/a	No significant change in recycles.
Ethylene glycol monobutyl ether					
Used	>10 to 100	>10 to 100	(-)>1 to 10	(-)9.6%	Decreased usage of products containing EGME, specifically E-coats.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	0	0	n/a	n/a	No significant change in product contents.
Released to Air	7.982	7.008	(-)0.974	(-)13.9%	Decreased usage of products containing EGME.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposed	0.007	0.123	0.116	>100%	Increased general usage of products containing EGME.
Transfer for Recycle	0	0	n/a	n/a	No significant change in recycles.
Isobutyl alcohol					
Used	>10 to 100	>10 to 100	(-)>10 to 100	(-)45%	Decreased usage of products containing isobutyl alcohol.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	0	0	n/a	n/a	No significant change in product contents.

Released to Air	24.42	10.89	(-)13.53	(-)55%	Decreased usage of purge products containing isobutyl alcohol.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.210	0.253	0.043	20%	No significant change in recycles.
Transfer for Recycle	4.895	3.783	(-)1.112	(-)23%	Reduced volume of spent purge solvent was sent off-site for recycle.
Isopropanol					
Used	>10 to 100	>10 to 100	(-)>10 to 100	(-)54%	Decreased usage of products containing isopropanol, specifically purge solvents.
Created	0	0	n/a	n/a	No significant change in creation
Contained in Product	0	0	n/a	n/a	No significant change in product contents.
Released to Air	57.39	23.47	(-)33.92	(-)60%	Decreased usage of purge solvents containing isopropanol.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.347	0.417	0.070	20%	Increased general usage of products containing isopropanol.
Transfer for Recycle	2.088	1.463	(-)0.625	(-)30%	A reduced volume of spent purge solvent was sent off-site for recycle.
Manganese					
Used	>100 to 1,000	n/a	(-)>100 to 1,000	(-)100%	Decreased usage of Phosphate products containing manganese resulted in manganese not meeting the 10 tonne MPO threshold for 2015.
Created	n/a	n/a	n/a	n/a	
Contained in Product	>100 to 1,000	n/a	(-)>100 to 1,000	(-)100%	
Released to Air	0	n/a	n/a	n/a	
Released to Water	0.095	n/a	(-)0.095	(-)100%	
Transfer for Disposal	0.662	n/a	(-)0.662	(-)100%	
Transfer for Recycle	5.165	n/a	(-)5.165	(-)100%	
Methyl alcohol					
Used	>100 to 1,000	>100 to 1,000	(-)>10 to 100	(-)4.4%	No significant changes in product usage.

Created	0	0	n/a	n/a	No significant change in creation
Contained in Product	>100 to 1,000	>100 to 1,000	(-)>10 to 100	(-)4.0%	No significant change in product contents.
Released to Air	3.590	2.194	(-)1.396	(-)39%	Decreased usage of spray coatings containing methyl alcohol.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.044	0.038	(-)0.006	(-)15%	Decrease in usage of spray coatings containing methyl alcohol.
Transfer for Recycle	2.507	2.401	(-)0.1065	(-)4.2%	No significant change to recycles.
Methyl isobutyl ketone					
Used	>10 to 100	>10 to 100	>1 to 10	13%	Increased usage of products containing MIBK.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	0	0	n/a	n/a	No significant change in product contents.
Released to Air	21.37	31.37	10.00	47%	Increased usage of purge solvents containing MIBK.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.044	0	(-)0.044	(-)100%	No transfer for disposal due to decreased use of MIBK in general use products.
Transfer for Recycle	20.37	16.29	(-)4.08	(-)20%	Decreased amount of purge solvent sent for recycling.
Nitric acid					
Used	n/a	>10 to 100	n/a	n/a	New reportable substance for 2015. Nitric acid is neutralized through its use as a cleaner in Phosphate tanks then sent to WWTP. Neutralization is confirmed when the WWTP effluent pH level is between 6 and 9. No pH excursions below 6 during 2015.
Created	n/a	n/a	n/a	n/a	
Contained in Product	n/a	n/a	n/a	n/a	
Released to Air	n/a	n/a	n/a	n/a	
Released to Water	n/a	n/a	n/a	n/a	
Transfer for Disposal	n/a	n/a	n/a	n/a	
Transfer for Recycle	n/a	n/a	n/a	n/a	
n-Butyl alcohol					

Used	>100 to 1,000	>100 to 1,000	(-)>1 to 10	(-)4.0%	No significant change in usage.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	0	0	n/a	n/a	No significant change in product contents.
Released to Air	129.9	125.8	(-)4.061	(-)3.1%	No significant change in air release.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	2.557	2.347	(-)0.201	(-)8.2%	No significant change in transfer for disposal.
Transfer for Recycle	26.22	25.08	(-)1.14	(-)4.4%	No significant change to recycles.
Sodium nitrite					
Used	>10 to 100	>10 to 100	(-)>1 to 10	(-)18%	Decreased usage of Phosphate products containing sodium nitrite.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	>1 to 10	>1 to 10	(-)0 to 1	(-)18%	Decreased quantity of radiator coolant used.
Released to Air	n/a	n/a	n/a	n/a	No change in air release.
Released to Water	11.38	9.389	(-)1.992	(-)17%	Decreased quantity of sodium nitrite released from WWTP.
Transfer for Disposal	0.0015	0.0027	0.0012	80%	Increased usage of tire lubricant containing sodium nitrite.
Transfer for Recycle	n/a	n/a	n/a	n/a	No change in off-site recycles.
Sulphuric acid					
Used	>10 to 100	>10 to 100	>1 to 10	2.3%	Increased usage of sulphuric acid for wastewater treatment.
Created	0	0	n/a	n/a	No significant change in creation
Contained in Product	0	0	n/a	n/a	No significant change in product contents.
Released to Air	0	0	n/a	n/a	No significant change in air releases.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0	0	n/a	n/a	No significant change in disposals.
Transfer for Recycle	0	0	n/a	n/a	No significant change to recycles.
Toluene					

Used	>1 to 10	>10 to 100	(-)>1 to 10	(-)21%	Decreased usage of products containing toluene.
Created	0	0	n/a	n/a	No significant change in creation
Contained in Product	>0 to 1	0	(-)>0 to 1	(-)100%	Decreased quantity of transmission fluid used.
Released to Air	7.959	5.974	(-)1.985	(-)25%	Decreased usage of spray coating products containing toluene.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.069	0.050	(-)0.019	(-)28%	Decreased usage of products containing toluene.
Transfer for Recycle	3.167	2.093	(-)1.074	(-)34%	A reduced volume of spent purge solvent was sent off-site for recycle.
1,2,4-Trimethylbenzene					
Used	>100 to 1,000	>100 to 1,000	>10 to 100	18%	Increased usage of products containing 1,2,4-TMB.
Created	0	0	n/a	n/a	No significant change in creation.
Contained in Product	0	0	n/a	n/a	No significant change in product contents.
Released to Air	65.30	85.79	20.49	31%	Increased usage of products containing 1,2,4-TMB.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.999	2.218	1.219	>100%	Increased quantity of spray coatings transferred for disposal.
Transfer for Recycle	123.4	125.7	2.327	1.9%	No significant change to recycles.
Xylene					
Used	>100 to 1,000	>100 to 1,000	>100 to 1,000	42%	Increased usage of products containing Xylene, specifically purge solvents.
Created	0	0	n/a	n/a	No significant change in creation
Contained in Product	>0 to 1	0	(-)>0 to 1	(-)100%	Decreased quantity of transmission fluid used.
Released to Air	72.61	180.4	107.8	>100%	Increased purge solvent usage containing Xylene.
Released to Water	0	0	n/a	n/a	No significant change in water release.
Transfer for Disposal	0.145	0.079	(-)0.066	(-)46%	Decreased usage of spray coatings containing xylene.
Transfer for Recycle	180.1	179.6	(-)0.526	(-)0.3%	No significant change in off-site recycles.

Zinc (and its compounds)					
Used	>1,000 to 10,000	>1,000 to 10,000	(-)>100 to 1,000	(-)6.4%	No significant increase in usage.
Created	0	0	n/a	n/a	No significant change in creation
Contained in Product	>1,000 to 10,000	>1,000 to 10,000	(-)>100 to 1,000	(-)5.6%	No significant increase in contained in product.
Released to Air	0.0002	0.0002	(-)0.04	(-)21%	Increased diversion of zinc to energy from waste facility.
Released to Water	0.318	0.177	(-)0.1411	(-)44%	Decreased wastewater discharge releases.
Transfer for Disposal	1.726	0.241	(-)1.485	(-)86%	Diversion of WWTP sludge wastes to an energy from waste facility.
Transfer for Recycle	15.29	12.09	(-)3.2	(-)21%	Decrease in quantity of scrap metal recycled.
NO_x					
Used	0	0	n/a	n/a	No significant increase in usage.
Created	>10 to 100	>10 to 100	>10 to 100	19%	Increased natural gas usage and use of peak shave generators.
Released to Air	70.56	74.17	3.61	5.1%	Increased natural gas usage and use of peak shave generators.
CO					
Used	0	0	n/a	n/a	No significant increase in usage.
Created	>10 to 100	>10 to 100	>10 to 100	17%	Increased natural gas usage and use of peak shave generators.
Released to Air	61.11	63.27	2.16	3.5%	Increased natural gas usage and use of peak shave generators.
PM_{10}					
Used	0	0	n/a	n/a	No significant increase in usage.
Created	>100 to 1,000	>100 to 1,000	(-)>10 to 100	(-)19%	Decreased releases from spray coating activities.
Released to Air	14.61	12.11	(-)2.5	(-)17%	Decreased releases from spray coating activities.
$PM_{2.5}$					
Used	0	0	n/a	n/a	No significant increase in usage.

Created	>10 to 100	>10 to 100	(-)>1 to 10	(-)17%	Decreased releases from spray coating activities.
Released to Air	3.991	3.584	(-)0.407	(-)10%	Decreased releases from spray coating activities.
Butane					
Used	0	0	n/a	n/a	No significant increase in usage.
Created	>1 to 10	>1 to 10	>0 to 1	2.7%	Increase in natural gas combustion quantities.
Released to Air	1.481	1.522	0.041	2.7%	Increase in natural gas combustion quantities.
Diethylene glycol monobutyl ether					
Used	n/a	>1 to 10	n/a	n/a	New reportable substance for 2015; previous years air release did not exceed the 1000 kg reporting requirement. Increased usage of products containing DGME triggered reporting.
Created	n/a	n/a	n/a	n/a	
Released to Air	n/a	1.074	n/a	n/a	
Ethylene glycol monobutyl ether acetate					
Used	>10 to 100	>10 to 100	(-)>1 to 10	(-)27%	Decreased usage of products containing EGMEA.
Created	0	0	n/a	n/a	No significant change in creation.
Released to Air	4.402	3.962	(-)0.439	(-)10%	Decreased usage of products containing EGMEA.
Heavy aromatic solvent naphtha					
Used	>10 to 100	>10 to 100	>1 to 10	25%	Increased usage of products containing HASN.
Created	0	0	n/a	n/a	No significant change in creation
Released to Air	3.878	7.370	3.492	90%	Decreased spray coating sent for recycle and increased usage of products containing HASN.
Hexane					
Used	0	0	n/a	n/a	No significant increase in usage.
Created	>1 to 10	>1 to 10	>1 to 10	2.8%	Increase in natural gas combustion quantities.
Released to Air	1.269	1.305	0.036	2.8%	Increase in natural gas combustion quantities.
Hydrotreated heavy naphtha					
Used	>10 to	>10 to	>1 to 10	5.1%	No significant change in usage.

	100	100			
Created	0	0	n/a	n/a	No significant change in creation
Released to Air	6.882	5.599	(-)1.283	(-)19%	Decreased usage of products containing HHN.
Hydrotreated light distillate					
Used	n/a	>1 to 10	n/a	n/a	New reportable substance for 2015; previous years air release did not exceed the 1000 kg reporting requirement. Increased usage of products containing HLD triggered reporting.
Created	n/a	0	n/a	n/a	
Released to Air	n/a	1.102	n/a	n/a	
Light aromatic solvent naphtha					
Used	>100 to 1,000	>100 to 1,000	>100 to 1,000	45%	Increased usage of products containing LASN.
Created	0	0	n/a	n/a	No significant change in creation
Released to Air	13.99	39.53	25.55	>100%	Increased usage of products containing LASN and decrease quantity of LASN recycled as spent purge solvent.
Methyl ethyl ketone					
Used	>1 to 10	>1 to 10	(-)>1 to 10	(-)29%	Decreased usage of products containing MEK, specifically purge solvent.
Created	0	0	n/a	n/a	No significant change in creation.
Released to Air	3.851	2.754	(-)1.097	(-)28%	Decreased usage of spray coatings.
n-Butyl acetate					
Used	>100 to 1,000	>100 to 1,000	>10 to 100	64%	Increased usage of 31950 Purge Solvent.
Created	0	0	n/a	n/a	No significant change in creation.
Released to Air	49.43	122.8	73.42	>100%	Increased usage of purge solvents.
n-Heptane					
Used	>10 to 100	>10 to 100	(-)>1 to 10	(-)3.8%	Decreased usage of products containing n-Heptane, specifically spray coatings.
Created	0	0	n/a	n/a	No significant change in creation
Released to Air	11.98	11.55	(-)0.427	(-)3.6%	Decreased usage of products containing n-heptane.

Pentane					
Used	0	0	0	n/a	No significant increase in usage.
Created	>1 to 10	>1 to 10	>1 to 10	2.8%	Increase in natural gas usage.
Released to Air	1.833	1.885	0.052	2.8%	Increase in natural gas usage.
Propane					
Used	n/a	0	n/a	n/a	New reportable substance for 2015; previous years air release did not exceed the 1000 kg reporting requirement. Increased combustion of natural gas with propane as a combustion by-product.
Created	n/a	>1 to 10	n/a	n/a	
Released to Air	n/a	1.160	n/a	n/a	
Solvent naphtha medium aliphatic					
Used	>10 to 100	>10 to 100	>1 to 10	31%	Increased usage of purge solvents containing SNMA.
Created	0	0	n/a	n/a	No significant change in creation
Released to Air	8.218	14.64	6.419	78%	Increased usage of general use products containing SNMA.
Trimethylbenzene					
Used	>10 to 100	>10 to 100	>10 to 100	34%	Increased usage of products containing Trimethylbenzene, specifically Aromatic 100 solvent.
Created	0	0	n/a	n/a	No significant change in creation.
Released to Air	36.13	44.39	8.256	23%	Increased usage of spray coatings products containing Trimethylbenzene.
Acetone					
Used	>1 to 10	>1 to 10	>0 to 1	(-)20%	Decreased usage of products containing Acetone.
Created	0	0	n/a	n/a	No significant change in creation
Released to Air	4.225	2.652	(-)1.573	(-)37%	Decreased usage of purge solvents containing Acetone.

C. TOXIC SUBSTANCE REDUCTION PLANNING

Objectives & Targets

Substance	Objectives & Targets	Reduction Option Progress
Asbestos	n/a – no options identified	
Ethylbenzene	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Ethylene glycol	n/a – no options identified	
Ethylene glycol monobutyl ether	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Isobutyl alcohol	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Isopropanol	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Manganese (and its compounds)	n/a – no options identified	
Methyl alcohol	n/a – no options identified	
Methyl isobutyl ketone	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
n-Butyl alcohol	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Sodium nitrite	n/a – no options identified	
Sulphuric acid	n/a – no options identified	

Substance	Objectives & Targets	Reduction Option Progress
Toluene	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
1,2,4-Trimethylbenzene	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Xylene	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Zinc (and its compounds)	n/a – no options identified	
NO_x	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
CO	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
PM_{10}	- Reduce the use of spray coatings.	Continued to increase block size.
$PM_{2.5}$	- Reduce the use of spray coatings.	Continued to increase block size.
Butane	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
Ethylene glycol monobutyl ether acetate	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Heavy aromatic solvent naphtha	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Hexane	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
Hydrotreated heavy naphtha	- Continue to transition to low VOC booth cleaners. - Continue to increase block size.	The planned steps were completed.

Substance	Objectives & Targets	Reduction Option Progress
	- Continue to implement "lockout" practice on all valves in the paint booths.	
Light aromatic solvent naphtha	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Methyl ethyl ketone	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
n-Butyl acetate	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
n-Heptane	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Pentane	- Reduce the use of natural gas in process and heating combustion equipment.	Continued to implement the steps in the plan.
Solvent naphtha medium aliphatic	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Tetrahydrofuran	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed. Tetrahydrofuran releases dropped below 1,000 kg, therefore reporting was not required for 2014 and 2015.
Trimethylbenzene	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all valves in the paint booths.	The planned steps were completed.
Acetone	- Continue to transition to low VOC booth cleaners. - Continue to increase block size. - Continue to implement "lockout" practice on all	The planned steps were completed.

Substance	Objectives & Targets	Reduction Option Progress
	valves in the paint booths.	

Annual Report Certification Statement

As of June 1, 2016, I certify that I have read the report(s) on the toxic substance reduction plan(s) for the toxic substances included above, and am familiar with its/their contents and to my knowledge the information contained in the report(s) is factually accurate and the report complies/reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under the Act.

Brent Merritt, Plant Manager

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(Digital signature on file)