

National Pollutant Release Inventory (NPRI) and Partners



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Report Preview

Report Details

Report Year	2017
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	03/01/2019 3:27 PM

Company and Facility Details

Company Name:	Morbern Inc.
Business Number:	103760948
Mailing Address:	Delivery Mode: PostOfficeBox PO Box: 1207 Address Line 1: 80 Boundary Road South City, Province/Territory, Postal Code: Cornwall Ontario K6H 5V3 Country: Canada
Facility Name:	Morbern Inc.
NAICS Code:	313320
NPRI ID:	741
ON Reg 127/01 ID:	6243
Physical Address:	Address Line 1: 80 Boundary Road South City, Province/Territory, Postal Code: Cornwall Ontario K6H5v3 Country: Canada Latitude: 45.033 Longitude: -74.6684

Contacts Details

Contact Type	Technical Contact
Name:	Jamey Loucks
Position:	Environmental Health and Safety Manager
Telephone:	6139372478
Email:	jloucks@morbern.com
Contact Type	Certifying Official, Highest Ranking Employee
Name:	Eric Lamontagne
Position:	President
Telephone:	6139372474
Email:	eric@morbern.com

Contact Type	Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan
Name:	Colin Welburn
Position:	Partner
Telephone:	6138526003
Email:	colin@welburnconsulting.ca
Mailing Address:	Address Line 1: 143 Sunnyside Avenue City, Province/Territory, Postal Code: Ottawa Ontario K1S 0R2 Country: Canada

General Information

Number of employees:	260
Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:	None of the above
Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:	None of the above
Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs):	Wood preservation using creosote: No
Is this the first time the facility is reporting to the NPRI (under current or past ownership):	No
Is the facility controlled by another Canadian company or companies:	No
Did the facility report under other environmental regulations or permits:	No
Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants):	Yes
Was the facility shut down for more than one week during the year:	Yes
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri, Sat
Usual Number of Operating Hours per day:	24
Usual Daily Start Time (24h) (hh:mm):	07:00

Shutdown Periods:

From 2017-07-10 To 2017-07-24	Summer shutdown for maintenance.
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Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 01	Antimony (and its compounds)	N/A	N/A	3.8400	N/A	tonnes
67-63-0	Isopropyl alcohol	16.2000	N/A	2.3100	N/A	tonnes
78-93-3	Methyl ethyl ketone	504.6300	N/A	72.0900	N/A	tonnes
108-10-1	Methyl isobutyl ketone	3.7200	N/A	0.4100	N/A	tonnes
872-50-4	N-Methyl-2-pyrrolidone	1.4200	N/A	12.8100	N/A	tonnes
108-88-3	Toluene	14.0200	N/A	2.0000	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	797.5000	796.0200	N/A	N/A	tonnes
NA - 14	Zinc (and its compounds)	N/A	N/A	0.9300	N/A	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
NA - 01	Antimony (and its compounds)	Yes	Yes		No
67-63-0	Isopropyl alcohol	Yes	Yes		No
78-93-3	Methyl ethyl ketone	Yes	Yes		No
108-10-1	Methyl isobutyl ketone	Yes	Yes		No
872-50-4	N-Methyl-2-pyrrolidone	Yes	Yes		No

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
108-88-3	Toluene	Yes	Yes		No
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No
NA - 14	Zinc (and its compounds)	Yes	Yes		No

General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
NA - 01	Antimony (and its compounds)	No	No	No
67-63-0	Isopropyl alcohol	Yes	No	No
78-93-3	Methyl ethyl ketone	Yes	No	No
108-10-1	Methyl isobutyl ketone	Yes	No	No
872-50-4	N-Methyl-2-pyrrolidone	Yes	No	No
108-88-3	Toluene	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
NA - 14	Zinc (and its compounds)	No	No	No

General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
NA - 01	Antimony (and its compounds)	Yes	No	No
67-63-0	Isopropyl alcohol	Yes	No	No
78-93-3	Methyl ethyl ketone	Yes	No	No
108-10-1	Methyl isobutyl ketone	Yes	No	No
872-50-4	N-Methyl-2-pyrrolidone	Yes	No	No
108-88-3	Toluene	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)			
NA - 14	Zinc (and its compounds)	Yes	No	No

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 01	Antimony (and its compounds)	For on-site use/processing	As a formulation component	As a manufacturing aid
67-63-0	Isopropyl alcohol	For on-site use/processing	As a formulation component	As a manufacturing aid
78-93-3	Methyl ethyl ketone	For on-site use/processing	As a formulation component	As a manufacturing aid
108-10-1	Methyl isobutyl ketone	For on-site use/processing	As a formulation component	As a manufacturing aid
872-50-4	N-Methyl-2-pyrrolidone	For on-site use/processing	As a formulation component	As a manufacturing aid
108-88-3	Toluene	For on-site use/processing	As a formulation component	As a manufacturing aid
NA - M16	Volatile Organic Compounds (VOCs)			
NA - 14	Zinc (and its compounds)	For on-site use/processing	As a formulation component	As a manufacturing aid

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - 01	Antimony (and its compounds)	Use	128 tonnes	Yes
NA - 01	Antimony (and its compounds)	Creation	0 tonnes	No
NA - 01	Antimony (and its compounds)	Contained in Product	124.16 tonnes	Yes
67-63-0	Isopropyl alcohol	Use	23.14 tonnes	Yes
67-63-0	Isopropyl alcohol	Creation	0 tonnes	No
67-63-0	Isopropyl alcohol	Contained in Product	4.63 tonnes	Yes
78-93-3	Methyl ethyl ketone	Use	720.91 tonnes	Yes
78-93-3	Methyl ethyl ketone	Creation	0 tonnes	No
78-93-3	Methyl ethyl ketone	Contained in Product	144.18 tonnes	Yes

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
108-10-1	Methyl isobutyl ketone	Use	5.17 tonnes	Yes
108-10-1	Methyl isobutyl ketone	Creation	0 tonnes	No
108-10-1	Methyl isobutyl ketone	Contained in Product	1.03 tonnes	Yes
872-50-4	N-Methyl-2-pyrrolidone	Use	17.8 tonnes	Yes
872-50-4	N-Methyl-2-pyrrolidone	Creation	0 tonnes	No
872-50-4	N-Methyl-2-pyrrolidone	Contained in Product	3.56 tonnes	Yes
108-88-3	Toluene	Use	20.04 tonnes	Yes
108-88-3	Toluene	Creation	0 tonnes	No
108-88-3	Toluene	Contained in Product	4.01 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Use	1234.76 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		
NA - 14	Zinc (and its compounds)	Use	30.85 tonnes	Yes
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	No
NA - 14	Zinc (and its compounds)	Contained in Product	29.93 tonnes	No

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
112-07-2	Ethylene glycol butyl ether acetate	Use	1.86 tonnes
64742-48-9	Hydrotreated heavy naphtha	Use	89.48 tonnes
67-63-0	Isopropyl alcohol	Use	23.14 tonnes
78-93-3	Methyl ethyl ketone	Use	720.91 tonnes
108-10-1	Methyl isobutyl ketone	Use	5.17 tonnes
109-99-9	Tetrahydrofuran	Use	332.73 tonnes
108-88-3	Toluene	Use	20.04 tonnes
1330-20-7	Xylene (all isomers)	Use	10.51 tonnes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	1203.84 tonnes
Creation	0 tonnes

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
NA - 01	Antimony (and its compounds)					No
67-63-0	Isopropyl alcohol					No
78-93-3	Methyl ethyl ketone					No
108-10-1	Methyl isobutyl ketone					No
872-50-4	N-Methyl-2-pyrrolidone					No
108-88-3	Toluene					No
NA - M16	Volatile Organic Compounds (VOCs)					No
NA - 14	Zinc (and its compounds)					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
67-63-0	Isopropyl alcohol	Stack or Point Releases	C - Mass Balance		14.58 tonnes
67-63-0	Isopropyl alcohol	Fugitive Releases	C - Mass Balance		1.62 tonnes
78-93-3	Methyl ethyl ketone	Stack or Point Releases	C - Mass Balance		454.17 tonnes
78-93-3	Methyl ethyl ketone	Fugitive Releases	C - Mass Balance		50.46 tonnes
108-10-1	Methyl isobutyl ketone	Stack or Point Releases	C - Mass Balance		3.35 tonnes
108-10-1	Methyl isobutyl ketone	Fugitive Releases	C - Mass Balance		0.37 tonnes
872-50-4	N-Methyl-2-pyrrolidone	Stack or Point Releases	C - Mass Balance		0 tonnes
872-50-4	N-Methyl-2-pyrrolidone	Fugitive Releases	C - Mass Balance		1.42 tonnes

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
108-88-3	Toluene	Stack or Point Releases	C - Mass Balance		12.62 tonnes
108-88-3	Toluene	Fugitive Releases	C - Mass Balance		1.40 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Stack or Point Releases	C - Mass Balance		708.4 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	C - Mass Balance		89.1 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		797.5 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
67-63-0	Isopropyl alcohol	16.20 tonnes
78-93-3	Methyl ethyl ketone	504.63 tonnes
108-10-1	Methyl isobutyl ketone	3.72 tonnes
872-50-4	N-Methyl-2-pyrrolidone	1.42 tonnes
108-88-3	Toluene	14.02 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	797.5 tonnes

On-site Releases - Releases to air - VOC Breakdown List

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	112-07-2	Ethylene glycol butyl ether acetate	1.34 tonnes
Other Sources - Speciated VOCs	64742-48-9	Hydrotreated heavy naphtha	8.95 tonnes
Other Sources - Speciated VOCs	67-63-0	Isopropyl alcohol	16.20 tonnes
Other Sources - Speciated VOCs	78-93-3	Methyl ethyl ketone	504.64 tonnes
Other Sources - Speciated VOCs	108-10-1	Methyl isobutyl ketone	3.72 tonnes
Other Sources - Speciated VOCs	109-99-9	Tetrahydrofuran	239.57 tonnes
Other Sources - Speciated VOCs	108-88-3	Toluene	14.03 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	7.57 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases
67-63-0	Isopropyl alcohol	16.20 tonnes
78-93-3	Methyl ethyl ketone	504.63 tonnes
108-10-1	Methyl isobutyl ketone	3.72 tonnes
872-50-4	N-Methyl-2-pyrrolidone	1.42 tonnes
108-88-3	Toluene	14.02 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
67-63-0	Isopropyl alcohol	25	25	25	25
78-93-3	Methyl ethyl ketone	25	25	25	25
108-10-1	Methyl isobutyl ketone	25	25	25	25
872-50-4	N-Methyl-2-pyrrolidone	25	25	25	25
108-88-3	Toluene	25	25	25	25

On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
NA - M16	Volatile Organic Compounds (VOCs)	9	9	9	9	9	9	5	9	9	9	9	5

On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
108-10-1	Methyl isobutyl ketone	Changes in production levels	
108-88-3	Toluene	No significant change (i.e. < 10%) or no change	
67-63-0	Isopropyl alcohol	Changes in production levels	
78-93-3	Methyl ethyl ketone	Changes in production levels	
872-50-4	N-Methyl-2-pyrrolidone	Changes in production levels	
NA - 01	Antimony (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - M16	Volatile Organic Compounds (VOCs)	Changes in production levels	

Disposals - Off-site Transfers (excluding Tailings and Waste Rock)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 01	Antimony (and its compounds)	Incineration / Thermal	C - Mass Balance		3.84 tonnes
67-63-0	Isopropyl alcohol	Incineration / Thermal	C - Mass Balance		2.31 tonnes
78-93-3	Methyl ethyl ketone	Incineration / Thermal	C - Mass Balance		72.09 tonnes
108-10-1	Methyl isobutyl ketone	Incineration / Thermal	C - Mass Balance		0.41 tonnes
872-50-4	N-Methyl-2-pyrrolidone	Incineration / Thermal	C - Mass Balance		12.81 tonnes
108-88-3	Toluene	Incineration / Thermal	C - Mass Balance		2.00 tonnes
NA - 14	Zinc (and its compounds)	Incineration / Thermal	C - Mass Balance		0.93 tonnes

Disposals - Off-site Transfers (excluding Tailings and Waste Rock) - Total

CAS RN	Substance Name	Total - Treatment Prior to Final Disposal
NA - 01	Antimony (and its compounds)	3.84 tonnes
67-63-0	Isopropyl alcohol	2.31 tonnes
78-93-3	Methyl ethyl ketone	72.09 tonnes
108-10-1	Methyl isobutyl ketone	0.41 tonnes
872-50-4	N-Methyl-2-pyrrolidone	12.81 tonnes
108-88-3	Toluene	2.00 tonnes
NA - 14	Zinc (and its compounds)	0.93 tonnes

Disposals - Off-site Transfers (excluding Tailings and Waste Rock) - By Facilities

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
108-10-1	Methyl isobutyl ketone	Incineration / Thermal	Revolution Environmental Solutions	52 Imperial St. , Hamilton, ON, Canada	0.41 tonnes
108-88-3	Toluene	Incineration / Thermal	Revolution Environmental Solutions	52 Imperial St. , Hamilton, ON, Canada	2.00 tonnes
67-63-0	Isopropyl alcohol	Incineration / Thermal	Revolution Environmental Solutions	52 Imperial St. , Hamilton, ON, Canada	2.31 tonnes
78-93-3	Methyl ethyl ketone	Incineration / Thermal	Revolution Environmental Solutions	52 Imperial St. , Hamilton, ON, Canada	72.09 tonnes
872-50-4	N-Methyl-2-pyrrolidone	Incineration / Thermal	Revolution Environmental Solutions	52 Imperial St. , Hamilton, ON, Canada	12.81 tonnes
NA - 01	Antimony (and its compounds)	Incineration / Thermal	Revolution Environmental Solutions	52 Imperial St. , Hamilton, ON, Canada	3.84 tonnes
NA - 14	Zinc (and its compounds)	Incineration / Thermal	Revolution Environmental Solutions	52 Imperial St. , Hamilton, ON, Canada	0.93 tonnes

Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
NA - 01	Antimony (and its compounds)	3.84 tonnes
67-63-0	Isopropyl alcohol	2.31 tonnes
78-93-3	Methyl ethyl ketone	72.09 tonnes
108-10-1	Methyl isobutyl ketone	0.41 tonnes
872-50-4	N-Methyl-2-pyrrolidone	12.81 tonnes
108-88-3	Toluene	2.00 tonnes
NA - 14	Zinc (and its compounds)	0.93 tonnes

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
108-10-1	Methyl isobutyl ketone	Production residues Contaminated materials Machine or finishing residues	Changes in production levels	
108-88-3	Toluene	Production residues Machine or finishing residues	No significant change (i.e. < 10%) or no change	
67-63-0	Isopropyl alcohol	Production residues	No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone	Contaminated materials Unusable parts or discards Machine or finishing residues	Changes in production levels	
872-50-4	N-Methyl-2-pyrrolidone	Production residues Unusable parts or discards Machine or finishing residues	Changes in production levels	
NA - 01	Antimony (and its compounds)	Unusable parts or discards	Changes in production levels	
NA - 14	Zinc (and its compounds)	Production residues Unusable parts or discards Machine or finishing residues	Changes in production levels	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
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CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
108-10-1	Methyl isobutyl ketone		No significant change (i.e. < 10%) or no change	
108-88-3	Toluene		No significant change (i.e. < 10%) or no change	
67-63-0	Isopropyl alcohol		No significant change (i.e. < 10%) or no change	
78-93-3	Methyl ethyl ketone		No significant change (i.e. < 10%) or no change	
872-50-4	N-Methyl-2-pyrrolidone		No significant change (i.e. < 10%) or no change	
NA - 01	Antimony (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)		No significant change (i.e. < 10%) or no change	

Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 01	Antimony (and its compounds)	No	Enters the facility (Use)	128 tonnes	87.20 tonnes	2016	40.80	46.79
NA - 01	Antimony (and its compounds)	No	Creation	0 tonnes	0 tonnes	2016	0	
NA - 01	Antimony (and its compounds)	No	Contained in Product	124.16 tonnes	84.58 tonnes	2016	39.58	46.80
112-07-2	Ethylene glycol butyl ether acetate	Yes	Enters the facility (Use)	1.86 tonnes	9.52 tonnes	2016	-7.66	-80.46
64742-48-9	Hydrotreated heavy naphtha	Yes	Enters the facility (Use)	89.48 tonnes	80.02 tonnes	2016	9.46	11.82
67-63-0	Isopropyl alcohol	No	Enters the facility (Use)	23.14 tonnes	20.68 tonnes	2016	2.46	11.90
67-63-0	Isopropyl alcohol	No	Creation	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	No	Contained in Product	4.63 tonnes	4.14 tonnes	2016	0.49	11.84
67-63-0	Isopropyl alcohol	Yes	Enters the facility (Use)	23.14 tonnes	20.68 tonnes	2016	2.46	11.90
78-93-3	Methyl ethyl ketone	No	Enters the facility (Use)	720.91 tonnes	365.56 tonnes	2016	355.35	97.21
78-93-3	Methyl ethyl ketone	No	Creation	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	No	Contained in Product	144.18 tonnes	73.11 tonnes	2016	71.07	97.21
78-93-3	Methyl ethyl ketone	Yes	Enters the facility (Use)	720.91 tonnes	365.56 tonnes	2016	355.35	97.21
108-10-1	Methyl isobutyl ketone	No	Enters the facility (Use)	5.17 tonnes	3.27 tonnes	2016	1.90	58.10
108-10-1	Methyl isobutyl ketone	No	Creation	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	No	Contained in Product	1.03 tonnes	0.65 tonnes	2016	0.38	58.46
108-10-1	Methyl isobutyl ketone	Yes	Enters the facility (Use)	5.17 tonnes	3.27 tonnes	2016	1.90	58.10
872-50-4	N-Methyl-2-pyrrolidone	No	Enters the facility (Use)	17.8 tonnes	11.81 tonnes	2016	5.99	50.72
872-50-4	N-Methyl-2-pyrrolidone	No	Creation	0 tonnes	0 tonnes	2016	0	
872-50-4	N-Methyl-2-pyrrolidone	No	Contained in Product	3.56 tonnes	2.36 tonnes	2016	1.20	50.85
109-99-9	Tetrahydrofuran	Yes	Enters the facility (Use)	332.73 tonnes	173.24 tonnes	2016	159.49	92.06
108-88-3	Toluene	No	Enters the facility (Use)	20.04 tonnes	20.37 tonnes	2016	-0.33	-1.62
108-88-3	Toluene	No	Creation	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Contained in Product	4.01 tonnes	4.07 tonnes	2016	-0.06	-1.47
108-88-3	Toluene	Yes	Enters the facility (Use)	20.04 tonnes	20.37 tonnes	2016	-0.33	-1.62
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	10.51 tonnes	6.84 tonnes	2016	3.67	53.65
1330-20-7	Xylene (all isomers)	Yes	Creation	0 tonnes	0 tonnes	2016	0	
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	30.85 tonnes	24.77 tonnes	2016	6.08	24.55
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0 tonnes	2016	0	
NA - 14	Zinc (and its compounds)	No	Contained in Product	29.93 tonnes	24.03 tonnes	2016	5.90	24.55

Comparison Report - Enters, Creation, Contained in Product : Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 01	Antimony (and its compounds)	Increase in production levels	

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	Increase in production levels	
78-93-3	Methyl ethyl ketone	Increase in production levels	
108-10-1	Methyl isobutyl ketone	Increase in production levels	
872-50-4	N-Methyl-2-pyrrolidone	Increase in production levels	
108-88-3	Toluene	No reasons - quantities approximately the same	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	
NA - 14	Zinc (and its compounds)	Increase in production levels	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
112-07-2	Ethylene glycol butyl ether acetate	Yes	Total Releases to Air	1.34 tonnes	6.85 tonnes	2016	-5.51	-80.44
64742-48-9	Hydrotreated heavy naphtha	Yes	Total Releases to Air	8.95 tonnes	8.00 tonnes	2016	0.95	11.88
67-63-0	Isopropyl alcohol	No	Total Releases to Air	16.20 tonnes	14.48 tonnes	2016	1.72	11.88
67-63-0	Isopropyl alcohol	No	Total Releases to Water	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	No	Total Releases to Land	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	Yes	Total Releases to Air	16.20 tonnes	14.48 tonnes	2016	1.72	11.88
78-93-3	Methyl ethyl ketone	No	Total Releases to Air	504.63 tonnes	255.89 tonnes	2016	248.74	97.21
78-93-3	Methyl ethyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	Yes	Total Releases to Air	504.64 tonnes	255.89 tonnes	2016	248.75	97.21
108-10-1	Methyl isobutyl ketone	No	Total Releases to Air	3.72 tonnes	2.36 tonnes	2016	1.36	57.63
108-10-1	Methyl isobutyl ketone	No	Total Releases to Water	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	No	Total Releases to Land	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	Yes	Total Releases to Air	3.72 tonnes	2.35 tonnes	2016	1.37	58.30
872-50-4	N-Methyl-2-pyrrolidone	No	Total Releases to Air	1.42 tonnes	0.94 tonnes	2016	0.48	51.06
872-50-4	N-Methyl-2-pyrrolidone	No	Total Releases to Water	0 tonnes	0 tonnes	2016	0	
872-50-4	N-Methyl-2-pyrrolidone	No	Total Releases to Land	0 tonnes	0 tonnes	2016	0	
872-50-4	N-Methyl-2-pyrrolidone	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
109-99-9	Tetrahydrofuran	Yes	Total Releases to Air	239.57 tonnes	124.74 tonnes	2016	114.83	92.06
108-88-3	Toluene	No	Total Releases to Air	14.02 tonnes	14.26 tonnes	2016	-0.24	-1.68
108-88-3	Toluene	No	Total Releases to Water	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Total Releases to Land	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	Yes	Total Releases to Air	14.03 tonnes	14.26 tonnes	2016	-0.23	-1.61
1330-20-7	Xylene (all isomers)	Yes	Total Releases to Air	7.57 tonnes	4.93 tonnes	2016	2.64	53.55

Comparison Report - On-site Releases - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
67-63-0	Isopropyl alcohol	Increase in production levels	

CAS RN	Substance Name	Reason(s) for Change	Other Reason
78-93-3	Methyl ethyl ketone	Increase in production levels	
108-10-1	Methyl isobutyl ketone	Increase in production levels	
872-50-4	N-Methyl-2-pyrrolidone	Increase in production levels	
108-88-3	Toluene	No reasons - quantities approximately the same	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 01	Antimony (and its compounds)	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
NA - 01	Antimony (and its compounds)	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
NA - 01	Antimony (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	3.84 tonnes	2.62 tonnes	2016	1.22	46.56
NA - 01	Antimony (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
NA - 01	Antimony (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	No	Total Off-site transfer for treatment Prior to Final Disposal	2.31 tonnes	2.07 tonnes	2016	0.24	11.59
67-63-0	Isopropyl alcohol	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
67-63-0	Isopropyl alcohol	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	No	Total Off-site transfer for treatment Prior to Final Disposal	72.09 tonnes	36.56 tonnes	2016	35.53	97.18
78-93-3	Methyl ethyl ketone	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
78-93-3	Methyl ethyl ketone	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	No	Total Off-site transfer for treatment Prior to Final Disposal	0.41 tonnes	0.26 tonnes	2016	0.15	57.69
108-10-1	Methyl isobutyl ketone	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
108-10-1	Methyl isobutyl ketone	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
872-50-4	N-Methyl-2-pyrrolidone	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
872-50-4	N-Methyl-2-pyrrolidone	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
872-50-4	N-Methyl-2-pyrrolidone	No	Total Off-site transfer for treatment Prior to Final Disposal	12.81 tonnes	10.37 tonnes	2016	2.44	23.53
872-50-4	N-Methyl-2-pyrrolidone	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
872-50-4	N-Methyl-2-pyrrolidone	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Total Off-site transfer for treatment Prior to Final Disposal	2.00 tonnes	2.04 tonnes	2016	-0.04	-1.96
108-88-3	Toluene	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
NA - 14	Zinc (and its compounds)	No	Total On-site Disposals	0 tonnes	0 tonnes	2016	0	
NA - 14	Zinc (and its compounds)	No	Total Off-site Disposals	0 tonnes	0 tonnes	2016	0	
NA - 14	Zinc (and its compounds)	No	Total Off-site transfer for treatment Prior to Final Disposal	0.93 tonnes	0.74 tonnes	2016	0.19	25.68

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 14	Zinc (and its compounds)	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	
NA - 14	Zinc (and its compounds)	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2016	0	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 01	Antimony (and its compounds)	Increase in production levels	
67-63-0	Isopropyl alcohol	Increase in production levels	
78-93-3	Methyl ethyl ketone	Increase in production levels	
108-10-1	Methyl isobutyl ketone	Increase in production levels Implementation of toxics reduction option(s)	
872-50-4	N-Methyl-2-pyrrolidone	Increase in production levels	
108-88-3	Toluene	No reasons - quantities approximately the same	
NA - 14	Zinc (and its compounds)	Increase in production levels	

Pollution Prevention

Does the facility have a documented pollution prevention plan?

Yes

a) Please check all that apply

Plan was prepared or implemented on a voluntary basis.

b) Did the facility update their plan in the current reporting year?

No

c) Does the plan address substances, energy conservation, or water conservation?

Substances (provide the name of the primary Substances in the comments field below)

Please summarize your pollution prevention plan. If you selected "Substances", please specify the substances that were addressed in your plan (this information will be publicly available).

Our efforts fall in line with Ontario's Toxics Reduction program, which is driven by the Toxics Reduction Act, 2009 and Ontario Regulation 455/09

Did the facility complete any pollution prevention activities in the current NPRI reporting year

No

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
NA - 01	Antimony (and its compounds)	to reduce the usage of substance by 50% by year 2017
112-07-2	Ethylene glycol butyl ether acetate	Morbern has not set an objective or target for reducing the use of 2-butoxyethyl acetate. The process that uses this substance is very specialized and serves a niche market.
64742-48-9	Hydrotreated heavy naphtha	Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of Naphtha.
67-63-0	Isopropyl alcohol	Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of IPA.
78-93-3	Methyl ethyl ketone	Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of MEK.
108-10-1	Methyl isobutyl ketone	Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of MIBK.
872-50-4	N-Methyl-2-pyrrolidone	While Morbern Inc. is implementing options for reducing the use of NMP, it does not have a target for reducing the use of this substance, since it is a component of water-based inks. Morbern is increasing the use of water-based inks to reduce the use and creation of other, more toxic substances at the facility.
109-99-9	Tetrahydrofuran	Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of THF.
108-88-3	Toluene	morbern will reduce the toluene usage by using more waterbase finishes
1330-20-7	Xylene (all isomers)	Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of Xylene.
NA - 14	Zinc (and its compounds)	Morbern Inc. in compliance with the Toxic Reduction Act (2009) and O.Reg. 455/09, does intend to reduce the use of Zinc.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 01	Antimony (and its compounds)	68042 kg	4	17010.7kg in 2013, 17010.7kg in 2014, 17010.7kg in 2015, 17010.7kg in 2016
112-07-2	Ethylene glycol butyl ether acetate	No quantity target	No timeline target	
64742-48-9	Hydrotreated heavy naphtha	0.08 tonnes	3	
67-63-0	Isopropyl alcohol	6.6 tonnes	5	
78-93-3	Methyl ethyl ketone	354 tonnes	5	

CAS RN	Substance Name	Quantity	Years	Description of Target
108-10-1	Methyl isobutyl ketone	0.35 tonnes	5	
872-50-4	N-Methyl-2-pyrrolidone	No quantity target	No timeline target	
109-99-9	Tetrahydrofuran	102 tonnes	5	
108-88-3	Toluene	6172 kg	5	
1330-20-7	Xylene (all isomers)	1.7 tonnes	5	
NA - 14	Zinc (and its compounds)	0.02 tonnes	3	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 01	Antimony (and its compounds)	No quantity target	No timeline target	not created at this facility
112-07-2	Ethylene glycol butyl ether acetate	No quantity target	No timeline target	
64742-48-9	Hydrotreated heavy naphtha	No quantity target	No timeline target	
67-63-0	Isopropyl alcohol	No quantity target	No timeline target	
78-93-3	Methyl ethyl ketone	No quantity target	No timeline target	
108-10-1	Methyl isobutyl ketone	No quantity target	No timeline target	
872-50-4	N-Methyl-2-pyrrolidone	No quantity target	No timeline target	
109-99-9	Tetrahydrofuran	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	not created at the facility
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	
NA - 14	Zinc (and its compounds)	No quantity target	No timeline target	

Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
NA - 01	Antimony (and its compounds)	Substituted materials	Water base substitution.	Water base substitution.	Water base substitution.	Water base substitution.
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	Schedule optimization.	Schedule optimization.	Schedule optimization.	Schedule optimization.
67-63-0	Isopropyl alcohol	Improved application techniques	Training / procedures.	Training / procedures.	Training / procedures.	Training / procedures.
67-63-0	Isopropyl alcohol	Substituted materials	Water base substitution.	Water base substitution.	Water base substitution.	Water base substitution.
67-63-0	Isopropyl alcohol	Changed production schedule to minimize equipment and feedstock changeovers	Schedule optimization.	Schedule optimization.	Schedule optimization.	Schedule optimization.
78-93-3	Methyl ethyl ketone	Improved application techniques	Training / procedures.	Training / procedures.	Training / procedures.	Training / procedures.
78-93-3	Methyl ethyl ketone	Substituted materials	Water base substitution.	Water base substitution.	Water base substitution.	Water base substitution.
78-93-3	Methyl ethyl ketone	Training related to toxics substance reduction	WHMIS Training.	WHMIS Training.	WHMIS Training.	WHMIS Training.
108-10-1	Methyl isobutyl ketone	Improved application techniques	Transfer to water base solvents.	Transfer to water base solvents.	Transfer to water base solvents.	Transfer to water base solvents.
108-10-1	Methyl isobutyl ketone	Changed production schedule to minimize equipment and feedstock changeovers	Optimization of schedule.	Optimization of schedule.	Optimization of schedule.	Optimization of schedule.
872-50-4	N-Methyl-2-pyrrolidone	Improved application techniques	New coater coming on-line.	New coater coming on-line.	Not applicable - no steps identified in plan.	Not applicable - no steps identified in plan.
872-50-4	N-Methyl-2-pyrrolidone	Substituted materials	Working with supplier to identify and test alternatives to NMP.	Working with supplier to identify and test alternatives to NMP.	Not applicable - no steps identified in plan.	Not applicable - no steps identified in plan.
872-50-4	N-Methyl-2-pyrrolidone	Other	Lean production planning ongoing.	Lean production planning ongoing.	Not applicable - no steps identified in plan.	Not applicable - no steps identified in plan.
109-99-9	Tetrahydrofuran	Improved application techniques	Training / procedures.	Training / procedures.	Training / procedures.	Training / procedures.
109-99-9	Tetrahydrofuran	Substituted materials	Water base substitution.	Water base substitution.	Water base substitution.	Water base substitution.
		Changed production				

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
109-99-9	Tetrahydrofuran	schedule to minimize equipment and feedstock changeovers	Schedule optimization.	Schedule optimization.	Schedule optimization.	Schedule optimization.
108-88-3	Toluene	Improved rinse equipment operations	Trial to optimize.	Trial to optimize.	Trial to optimize.	Trial to optimize.
108-88-3	Toluene	Substituted materials	Trial to optimize.	Trial to optimize.	Trial to optimize.	Trial to optimize.
108-88-3	Toluene	Other	Work procedures / training.	Work procedures / training.	Work procedures / training.	Work procedures / training.
108-88-3	Toluene	Modified design or composition	Water base topcoat substitution.	Water base topcoat substitution.	Water base topcoat substitution.	Water base topcoat substitution.
108-88-3	Toluene	Training related to toxics substance reduction	Work procedures / training.	Work procedures / training.	Work procedures / training.	Work procedures / training.
1330-20-7	Xylene (all isomers)	Improved application techniques	Training / procedures.	Training / procedures.	Training / procedures.	Training / procedures.
1330-20-7	Xylene (all isomers)	Substituted materials	Water base substitution.	Water base substitution.	Water base substitution.	Water base substitution.
1330-20-7	Xylene (all isomers)	Changed production schedule to minimize equipment and feedstock changeovers	Schedule optimization.	Schedule optimization.	Schedule optimization.	Schedule optimization.
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	Schedule optimization.	Schedule optimization.	Schedule optimization.	Schedule optimization.

CAS RN	Substance Name	Activity	Will the timelines in the current version of the plan will be met	Comments:
NA - 01	Antimony (and its compounds)	Substituted materials	No	
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	No	
67-63-0	Isopropyl alcohol	Improved application techniques	No	
67-63-0	Isopropyl alcohol	Substituted materials	No	
67-63-0	Isopropyl alcohol	Changed production schedule to minimize equipment and feedstock changeovers	No	
78-93-3	Methyl ethyl ketone	Improved application techniques	No	
78-93-3	Methyl ethyl ketone	Substituted materials	No	
78-93-3	Methyl ethyl ketone	Training related to toxics substance reduction	No	
108-10-1	Methyl isobutyl ketone	Improved application techniques	No	
108-10-1	Methyl isobutyl ketone	Changed production schedule to minimize equipment and feedstock changeovers	No	
872-50-4	N-Methyl-2-pyrrolidone	Improved application techniques	Yes	
872-50-4	N-Methyl-2-pyrrolidone	Substituted materials	Yes	
872-50-4	N-Methyl-2-pyrrolidone	Other	Yes	
109-99-9	Tetrahydrofuran	Improved application techniques	No	
109-99-9	Tetrahydrofuran	Substituted materials	No	
109-99-9	Tetrahydrofuran	Changed production schedule to minimize equipment and feedstock changeovers	No	
108-88-3	Toluene	Improved rinse equipment operations	No	
108-88-3	Toluene	Substituted materials	No	
108-88-3	Toluene	Other	No	
108-88-3	Toluene	Modified design or composition	No	
108-88-3	Toluene	Training related to toxics substance reduction	No	
1330-20-7	Xylene (all isomers)	Improved application techniques	No	
1330-20-7	Xylene (all isomers)	Substituted materials	No	
1330-20-7	Xylene (all isomers)	Changed production schedule to minimize equipment and feedstock changeovers	No	
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	No	

Progress on TRA Plan - Reductions due to Options Implemented - Equipment or process modifications

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
67-63-0	Isopropyl alcohol	Improved application techniques	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
1330-20-7	Xylene (all isomers)	Substituted materials	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Reductions due to Options Implemented - On-site reuse, recycling or recovery

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
108-88-3	Toluene	Other	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Other	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Reductions due to Options Implemented - Product design or reformulation

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
108-88-3	Toluene	Modified design or composition	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
108-88-3	Toluene	Modified design or composition	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Reductions due to Options Implemented - Good operator practice or training

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
64742-48-9	Hydrotreated heavy naphtha	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
1330-20-7	Xylene (all isomers)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
1330-20-7	Xylene (all isomers)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
1330-20-7	Xylene (all isomers)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - 14	Zinc (and its compounds)	Changed production schedule to minimize equipment and feedstock changeovers	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Additional Actions

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
NA - 01	Antimony (and its compounds)	No		
112-07-2	Ethylene glycol butyl ether acetate	No		
64742-48-9	Hydrotreated heavy naphtha	No		
67-63-0	Isopropyl alcohol	No		
78-93-3	Methyl ethyl ketone	No		
108-10-1	Methyl isobutyl ketone	No		
872-50-4	N-Methyl-2-pyrrolidone	No		
109-99-9	Tetrahydrofuran	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	No		
NA - 14	Zinc (and its compounds)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 01	Antimony (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 01	Antimony (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
108-88-3	Toluene	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
108-88-3	Toluene	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
1330-20-7	Xylene (all isomers)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
NA - 01	Antimony (and its compounds)	No		
112-07-2	Ethylene glycol butyl ether acetate	No		
64742-48-9	Hydrotreated heavy naphtha	No		
67-63-0	Isopropyl alcohol	No		
78-93-3	Methyl ethyl ketone	No		
108-10-1	Methyl isobutyl ketone	No		
872-50-4	N-Methyl-2-pyrrolidone	No		
109-99-9	Tetrahydrofuran	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	No		
NA - 14	Zinc (and its compounds)	No		

NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

I hereby certify that I have exercised due diligence to ensure that the submitted information is true and complete. The amounts and values for the facility(ies) identified below are accurate, based on reasonable estimates using available data. The data for the facility(ies) that I represent are hereby submitted to the programs identified below using the Single Window Reporting Application.

I also acknowledge that the data will be made public.

Note: Only the person identified as the Certifying Official or the authorized delegate should submit the report(s) identified below.

Company Name

Morbern Inc.

Certifying Official (or authorized delegate)

Eric Lamontagne

Report Submitted by

Eric Lamontagne

I, the Certifying Official or authorized delegate, agree with the statements above and acknowledge that by pressing the "Submit Report(s)" button, I am electronically certifying and submitting the facility report(s) for the identified company to its affiliated programs.

ON MOE TRA - Electronic Certification Statement

Annual Report Certification Statement

As of 03/01/2019, I, Eric Lamontagne, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

TRA Substance List

CAS RN

Substance Name

NA - 01

Antimony (and its compounds)

112-07-2

Ethylene glycol butyl ether acetate

64742-48-9

Hydrotreated heavy naphtha

67-63-0

Isopropyl alcohol

78-93-3

Methyl ethyl ketone

108-10-1

Methyl isobutyl ketone

872-50-4

N-Methyl-2-pyrrolidone

109-99-9

Tetrahydrofuran

108-88-3

Toluene

1330-20-7

Xylene (all isomers)

NA - 14

Zinc (and its compounds)

Company Name

Morbern Inc.

Highest Ranking Employee

Eric Lamontagne

Report Submitted by

Eric Lamontagne

Website address

<https://morbern.com/about/sustainability/>

I, the highest ranking employee, agree with the certification statement(s) above and acknowledge that by checking the box I am electronically signing the statement(s). I also acknowledge that by pressing the 'Submit Report(s)' button I am submitting the facility record(s)/report(s) for the identified facility to the Director under the Toxics Reduction Act, 2009. I also acknowledge that the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 provide the authority to the Director under the Act to make certain information as specified in subsection 27(5) of Ontario Regulation 455/09 available to the public.

Submitted Report

Period

Submission Date

Facility Name

Province

City

Programs

2017

03/01/2019

Morbern Inc.

Ontario

Cornwall

NPRI, ON MOE TRA

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are



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