Report Preview

Report Details

Report Year	2018
Report Type:	NPRI,ON MECP TRA
Report Status:	Ready to Submit
Modified Date/Time:	29/05/2019 10:10 AM

Company and Facility Details

Company Name:	Toyota Boshoku Canada Inc.
Business Number:	850793365
Mailing Address:	Address Line 1: 230 Universal Road City, Province/Territory, Postal Code: Woodstock Ontario N4S 7W3 Country: Canada
Facility Name:	Toyota Boshoku Canada
NAICS Code:	332999
NPRI ID:	11773
Portable:	No
Physical Address:	Address Line 1: 230 Universal Road City, Province/Territory, Postal Code: Woodstock Ontario N4S 7W3 Country: Canada Latitude: 43.1277 Longitude: -80.7105 UTM Zone: 17 UTM Easting: 523547 UTM Northing: 4775036

Contacts Details

Contact Type	Technical Contact, Certifying Official
Name:	Jason Dittburner
Position:	Plant Specialist
Telephone:	5196022121
Fax:	5194219958
Email:	Jason.Dittburner@tbamerica.com
Contact Type	Highest Ranking Employee
Name:	Norimichi Adachi
Position:	President
Telephone:	5194217556

Email:	norimichi.adachi@tbamerica.com
Mailing Address:	Address Line 1: 230 Universal Road City, Province/Territory, Postal Code: Woodstock Ontario N4S7W3 Country: Canada
Contact Type	Person who prepared the report
Name:	Lloyd Hipel
Position:	Project Manager
Telephone:	5195785100
Email:	lhipel@enviro-stewards.com
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 1 Union Street City, Province/Territory, Postal Code: Elmira Ontario N3B 3J9 Country: Canada

General Information

Number of employees:	475
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:	No
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri
Usual Number of Operating Hours per day:	16
Usual Daily Start Time (24h) (hh:mm):	07:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
110-82-7	Cyclohexane	10.8000	N/A	N/A	N/A	tonnes
67-56-1	Methanol	1.4000	N/A	N/A	N/A	tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	1.1000	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.5150	N/A	N/A	N/A	tonnes
108-88-3	Toluene	3.4000	N/A	N/A	N/A	tonnes
NA - M16	Volatile Organic Compounds (VOCs)	58.9000	45.2000	N/A	N/A	tonnes
1330-20-7	Xylene (all isomers)	2.5000	N/A	N/A	N/A	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MECP TRA	ON MECP Reg 127/01	First report for this substance to the ON MECP TRA
110-82-7	Cyclohexane	Yes	Yes		No
67-56-1	Methanol	Yes	Yes		No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Yes	Yes		No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Yes	Yes		No
108-88-3	Toluene	Yes	Yes		No

CAS RN	Substance Name	NPRI	ON MECP TRA	ON MECP Reg 127/01	First report for this substance to the ON MECP TRA
NA - M16	Volatile Organic Compounds (VOCs)	Yes	Yes		No
1330-20-7	Xylene (all isomers)	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
110-82-7	Cyclohexane	Yes	No	No
67-56-1	Methanol	Yes	No	No
108-88-3	Toluene	Yes	No	No
NA - M16	Volatile Organic Compounds (VOCs)		No	Yes
1330-20-7	Xylene (all isomers)	Yes	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
110-82-7	Cyclohexane	No	No	No
67-56-1	Methanol	No	No	No
108-88-3	Toluene	No	No	No
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)	No	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
110-82-7	Cyclohexane			As a physical or chemical processing aid
67-56-1	Methanol			As a physical or chemical processing aid
108-88-3	Toluene			As a physical or chemical processing aid
NA - M16	Volatile Organic Compounds (VOCs)			
1330-20-7	Xylene (all isomers)			As a physical or chemical processing aid

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
110-82-7	Cyclohexane	Use	10.8 tonnes	Yes
110-82-7	Cyclohexane	Creation	0 tonnes	No
110-82-7	Cyclohexane	Contained in Product	0 tonnes	No
67-56-1	Methanol	Use	1.4 tonnes	Yes
67-56-1	Methanol	Creation	0 tonnes	No
67-56-1	Methanol	Contained in Product	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0 tonnes	No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	1.1 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained in Product		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0 tonnes	No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	0.515 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained in Product		
108-88-3	Toluene	Use	3.4 tonnes	Yes
108-88-3	Toluene	Creation	0 tonnes	No
108-88-3	Toluene	Contained in Product	0 tonnes	No
NA - M16	Volatile Organic Compounds (VOCs)	Use	58.9 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Creation	0 tonnes	Yes
NA - M16	Volatile Organic Compounds (VOCs)	Contained in Product		
1330-20-7	Xylene (all isomers)	Use	2.5 tonnes	Yes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes	No
1330-20-7	Xylene (all isomers)	Contained in Product	0 tonnes	No

TRA Quantifications - VOC Breakdown List

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity
141-78-6	Ethyl acetate	Use	27.1 tonnes
NA - 31	Heptane (all isomers)	Use	10.8 tonnes
67-56-1	Methanol	Use	1.4 tonnes
108-88-3	Toluene	Use	3.4 tonnes
1330-20-7	Xylene (all isomers)	Use	2.5 tonnes
1330-20-7	Xylene (all isomers)	Creation	0 tonnes

TRA Quantifications - Total Speciated VOCs

Use, Creation, Contained in Product	Quantity
Use	45.2 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	Reason for the significant process change
110-82-7	Cyclohexane					No	
67-56-1	Methanol					No	
NA - M09	PM10 - Particulate Matter <= 10 Microns					No	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns					No	
108-88-3	Toluene					No	
NA - M16	Volatile Organic Compounds (VOCs)					No	
1330-20-7	Xylene (all isomers)					No	

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
110-82-7	Cyclohexane	Stack or Point Releases	O - Engineering Estimates		10.8 tonnes
67-56-1	Methanol	Stack or Point Releases	O - Engineering Estimates		1.4 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	O - Engineering Estimates		1.1 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	O - Engineering Estimates		0.515 tonnes
108-88-3	Toluene	Stack or Point Releases	O - Engineering Estimates		3.4 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Fugitive Releases	O - Engineering Estimates		58.9 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	Other Sources - Speciated VOCs	NA - Not Applicable		58.9 tonnes
1330-20-7	Xylene (all isomers)	Stack or Point Releases	O - Engineering Estimates		2.5 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
110-82-7	Cyclohexane	10.8 tonnes
67-56-1	Methanol	1.4 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	1.1 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	0.515 tonnes
108-88-3	Toluene	3.4 tonnes
NA - M16	Volatile Organic Compounds (VOCs)	58.9 tonnes
1330-20-7	Xylene (all isomers)	2.5 tonnes

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

Category	CAS RN	Substance Name	Quantity
Other Sources - Speciated VOCs	141-78-6	Ethyl acetate	27.1 tonnes
Other Sources - Speciated VOCs	NA - 31	Heptane (all isomers)	10.8 tonnes
Other Sources - Speciated VOCs	67-56-1	Methanol	1.4 tonnes
Other Sources - Speciated VOCs	108-88-3	Toluene	3.4 tonnes
Other Sources - Speciated VOCs	1330-20-7	Xylene (all isomers)	2.5 tonnes

On-site Releases - Total

CAS RN	Substance Name	Total releases

CAS RN	Substance Name	Total releases
110-82-7	Cyclohexane	10.8 tonnes
67-56-1	Methanol	1.4 tonnes
108-88-3	Toluene	3.4 tonnes
1330-20-7	Xylene (all isomers)	2.5 tonnes

On-site Releases - Quarterly Breakdown of Annual Releases

CAS RN	Substance Name	Quarter 1	Quarter 2	Quarter 3	Quarter 4
110-82-7	Cyclohexane	25	25	25	25
67-56-1	Methanol	25	25	25	25
108-88-3	Toluene	25	25	25	25
1330-20-7	Xylene (all isomers)	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 - M09	PM10 - Particulate Matter <= 10 Microns	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34
NA - M16	Volatile Organic Compounds (VOCs)	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34	8.33	8.33	8.34

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
108-88-3	Toluene	Decrease in production levels	
110-82-7	Cyclohexane	No significant change (i.e. <10% or no change)	
1330-20-7	Xylene (all isomers)	Decrease in production levels	
67-56-1	Methanol	No significant change (i.e. <10% or no change)	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Decrease in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Increase in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels	

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
108-88-3	Toluene		Other (specify in comment field)	Not disposed.
110-82-7	Cyclohexane		Other (specify in comment field)	Not disposed.
1330-20-7	Xylene (all isomers)		Other (specify in comment field)	Not disposed.
67-56-1	Methanol		Other (specify in comment field)	Not disposed.

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
108-88-3	Toluene		Other (specify in comment field)	Not disposed.
110-82-7	Cyclohexane		Other (specify in comment field)	Not disposed.
1330-20-7	Xylene (all isomers)		Other (specify in comment field)	Not disposed.
67-56-1	Methanol		Other (specify in comment field)	Not disposed.

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
110-82-7	Cyclohexane	No	Enters the facility (Use)	10.8 tonnes	10.4 tonnes	2017	0.4	3.85
110-82-7	Cyclohexane	No	Creation	0 tonnes	0 tonnes	2017	0	
110-82-7	Cyclohexane	No	Contained in Product	0 tonnes	0 tonnes	2017	0	
141-78-6	Ethyl acetate	Yes	Enters the facility (Use)	27.1 tonnes	25.9 tonnes	2017	1.2	4.63
NA - 31	Heptane (all isomers)	Yes	Enters the facility (Use)	10.8 tonnes	10.4 tonnes	2017	0.4	3.85

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
67-56-1	Methanol	No	Enters the facility (Use)	1.4 tonnes	1.3 tonnes	2017	0.1	7.69
67-56-1	Methanol	No	Creation	0 tonnes	0 tonnes	2017	0	
67-56-1	Methanol	No	Contained in Product	0 tonnes	0 tonnes	2017	0	
67-56-1	Methanol	Yes	Enters the facility (Use)	1.4 tonnes	1.3 tonnes	2017	0.1	7.69
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2017	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	1.1 tonnes	1.9 tonnes	2017	-0.8	-42.11
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2017	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	0.515 tonnes	0.452 tonnes	2017	0.063	13.94
108-88-3	Toluene	No	Enters the facility (Use)	3.4 tonnes	4.8 tonnes	2017	-1.4	-29.17
108-88-3	Toluene	No	Creation	0 tonnes	0 tonnes	2017	0	
108-88-3	Toluene	No	Contained in Product	0 tonnes	0 tonnes	2017	0	
108-88-3	Toluene	Yes	Enters the facility (Use)	3.4 tonnes	4.8 tonnes	2017	-1.4	-29.17
1330-20-7	Xylene (all isomers)	No	Enters the facility (Use)	2.5 tonnes	3.4 tonnes	2017	-0.9	-26.47
1330-20-7	Xylene (all isomers)	No	Creation	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	No	Contained in Product	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	Yes	Enters the facility (Use)	2.5 tonnes	3.4 tonnes	2017	-0.9	-26.47

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
110-82-7	Cyclohexane	No reasons - quantities approximately the same	
67-56-1	Methanol	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Decrease in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Increase in production levels	
108-88-3	Toluene	Increase in production levels Decrease in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels Decrease in production levels	
1330-20-7	Xylene (all isomers)	Decrease 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
110-82-7	Cyclohexane	No	Total Releases to Air	10.8 tonnes	10.4 tonnes	2017	0.4	3.85
110-82-7	Cyclohexane	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
110-82-7	Cyclohexane	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
110-82-7	Cyclohexane	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
141-78-6	Ethyl acetate	Yes	Total Releases to Air	27.1 tonnes	25.9 tonnes	2017	1.2	4.63
NA - 31	Heptane (all isomers)	Yes	Total Releases to Air	10.8 tonnes	10.4 tonnes	2017	0.4	3.85
67-56-1	Methanol	No	Total Releases to Air	1.4 tonnes	1.3 tonnes	2017	0.1	7.69
67-56-1	Methanol	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
67-56-1	Methanol	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
67-56-1	Methanol	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
67-56-1	Methanol	Yes	Total Releases to Air	1.4 tonnes	1.3 tonnes	2017	0.1	7.69
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	1.1 tonnes	1.9 tonnes	2017	-0.8	-42.11
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Air	0.515 tonnes	0.452 tonnes	2017	0.063	13.94
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
108-88-3	Toluene	No	Total Releases to Air	3.4 tonnes	4.8 tonnes	2017	-1.4	-29.17
108-88-3	Toluene	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
108-88-3	Toluene	No	Total Releases to Land	0 tonnes	0 tonnes	2017	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	3.4 tonnes	4.8 tonnes	2017	-1.4	-29.17
1330-20-7	Xylene (all isomers)	No	Total Releases to Air	2.5 tonnes	3.4 tonnes	2017	-0.9	-26.47
1330-20-7	Xylene (all isomers)	No	Total Releases to Water	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to Land	0 tonnes	0 tonnes	2017	0	
1330-20-7	Xylene (all isomers)	No	Total Releases to All Media	0 tonnes	0 tonnes	2016	0	
1330-20-7	Xylene (all isomers)	Yes	Total Releases to Air	2.5 tonnes	3.4 tonnes	2017	-0.9	-26.47

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
110-82-7	Cyclohexane	No reasons - quantities approximately the same	
67-56-1	Methanol	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Decrease in production levels	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Increase in production levels	
108-88-3	Toluene	Decrease in production levels	
NA - M16	Volatile Organic Compounds (VOCs)	Increase in production levels Decrease in production levels	
1330-20-7	Xylene (all isomers)	Decrease in production levels	

Pollution Prevention

Does the facility have a documented pollution prevention plan?	No
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
110-82-7	Cyclohexane	Toyota Boshoku Woodstock intends to reduce the use of cyclohexane through product design, equipment modification, and improved inventory techniques, and training and improved operating practices.
141-78-6	Ethyl acetate	Toyota Boshoku Woodstock intends to reduce the use of ethyl acetate through improved inventory techniques, improved operating practices.
NA - 31	Heptane (all isomers)	Toyota Boshoku Woodstock intends to reduce the use of heptane through improved inventory techniques, improved operating practices.
67-56-1	Methanol	Toyota Boshoku Woodstock intends to reduce the use of methanol through product design, improved inventory techniques, improved operating practices.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Toyota Boshoku Woodstock intends to reduce the use of PM10 through product design, equipment modification, and training and improved operating practices.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Toyota Boshoku Woodstock intends to reduce the creation of PM2.5 through product design, equipment modification, and training and improved operating practices.
108-88-3	Toluene	Toyota Boshoku Woodstock intends to reduce the use of xylene and toluene through feedstock substitution, product design, process modification, improved inventory techniques, and training and improved operating practices.
1330-20-7	Xylene (all isomers)	Toyota Boshoku Woodstock intends to reduce the use of xylene and toluene through feedstock substitution, product design, process modification, improved inventory techniques, and training and improved operating practices.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
110-82-7	Cyclohexane	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	
NA - 31	Heptane (all isomers)	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
110-82-7	Cyclohexane	No quantity target	No timeline target	
141-78-6	Ethyl acetate	No quantity target	No timeline target	
NA - 31	Heptane (all isomers)	No quantity target	No timeline target	
67-56-1	Methanol	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
108-88-3	Toluene	No quantity target	No timeline target	
1330-20-7	Xylene (all isomers)	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
110-82-7	Cyclohexane	Improved application techniques	Robot reteaching and jig modifications	Robot reteaching and jig modifications	Completed per the plan	Completed per the plan
110-82-7	Cyclohexane	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
110-82-7	Cyclohexane	Changed product specifications	Feasibility discussion with Toyota Boshoku Japan	Cancelled due to product design constraints	Followed per the plan; however measure was cancelled.	Followed per the plan; however measure was cancelled.
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
141-78-6	Ethyl acetate	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
141-78-6	Ethyl acetate	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
NA - 31	Heptane (all isomers)	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
NA - 31	Heptane (all isomers)	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
67-56-1	Methanol	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
67-56-1	Methanol	Changed product specifications	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
67-56-1	Methanol	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Modified design or composition	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
NA - M10	PM2.5 - Particulate Matter <=	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.

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
	2.5 Microns					
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Modified design or composition	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
108-88-3	Toluene	Other	Optimized process and created work point standard	Optimized process and created work point standard	Completed per the plan	Completed per the plan
108-88-3	Toluene	Instituted improved purchasing procedures	Team discussed the shipment interval change with PC manager, but because this a shipment with mixed vendors and products on the same truck, this measure is not practically feasible.	Team discussed the shipment interval change, but shipments include mixed vendors and products on the same truck, this measure is not practically feasible.	Steps were folllowed per plan, but measure was cancelled because it is not practically feasible due to the reasons above.	Steps were folllowed per plan, but measure was cancelled because it is not practically feasible due to the reasons above.
108-88-3	Toluene	Substituted materials	Feasibility discussion with Toyota Boshoku Japan	Cancelled due to product design constraints	Followed per the plan; however measure was cancelled.	Followed per the plan; however measure was cancelled.
108-88-3	Toluene	Modified design or composition	Feasibility discussion with Toyota Boshoku Japan	Cancelled due to product design constraints	Followed per the plan; however measure was cancelled.	Followed per the plan; however measure was cancelled.
108-88-3	Toluene	Training related to toxics substance reduction	Refined work point standard and team member training	Refined work point standard and team member training	Completed per the plan	Completed per the plan
108-88-3	Toluene	Other	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.	Already completed as per the plan.
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	Optimized process and created work point standard	Optimized process and created work point standard	Completed per the plan	Completed per the plan
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	Team discussed the shipment interval change with PC manager, but because this a shipment with mixed vendors and products on the same truck, this measure is not practically feasible.	Team discussed the shipment interval change, but shipments include mixed vendors and products on the same truck, this measure is not practically feasible.	Steps were folllowed per plan, but measure was cancelled because it is not practically feasible due to the reasons above.	Steps were folllowed per plan, but measure was cancelled because it is not practically feasible due to the reasons above.
1330-20-7	Xylene (all isomers)	Substituted materials	Feasibility discussion with Toyota Boshoku Japan	Cancelled due to product design constraints	Followed per the plan; however measure was cancelled.	Followed per the plan; however measure was cancelled.
1330-20-7	Xylene (all isomers)	Other	Feasibility discussion with Toyota Boshoku Japan	Cancelled due to product design constraints	Followed per the plan; however measure was cancelled.	Followed per the plan; however measure was cancelled.
1330-20-7	Xylene (all isomers)	Other	Refined work point standard and team member training	Refined work point standard and team member training	Completed per the plan	Completed per the plan
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	Spray station added to training workshop	Spray station added to training workshop	Completed per the plan	Completed per the plan

CAS RN	Substance Name	Activity	Will the timelines in the current version of the plan will be met	Comments:
110-82-7	Cyclohexane	Improved application techniques	Yes	
110-82-7	Cyclohexane	Other	Yes	
110-82-7	Cyclohexane	Changed product specifications	No	
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	Yes	
141-78-6	Ethyl acetate	Other	Yes	
141-78-6	Ethyl acetate	Other	Yes	
NA - 31	Heptane (all isomers)	Other	Yes	
NA - 31	Heptane (all isomers)	Other	Yes	
67-56-1	Methanol	Other	Yes	
67-56-1	Methanol	Changed product specifications	Yes	
67-56-1	Methanol	Other	Yes	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Other	Yes	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Modified design or composition	Yes	

CAS RN	Substance Name	Activity	Will the timelines in the current version of the plan will be met	Comments:
NA - M09	PM10 - Particulate Matter <= 10 Microns	Other	Yes	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Yes	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Modified design or composition	Yes	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other	Yes	
108-88-3	Toluene	Other	Yes	
108-88-3	Toluene	Instituted improved purchasing procedures	No	Steps were folllowed per plan, but measure was cancelled because it is not practically feasible due to the reasons above.
108-88-3	Toluene	Substituted materials	No	
108-88-3	Toluene	Modified design or composition	No	
108-88-3	Toluene	Training related to toxics substance reduction	Yes	
108-88-3	Toluene	Other	Yes	
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	Yes	
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	No	Steps were folllowed per plan, but measure was cancelled because it is not practically feasible due to the reasons above.
1330-20-7	Xylene (all isomers)	Substituted materials	No	
1330-20-7	Xylene (all isomers)	Other	No	
1330-20-7	Xylene (all isomers)	Other	Yes	
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	Yes	

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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	Improved application techniques	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
110-82-7	Cyclohexane	Improved application techniques	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
110-82-7	Cyclohexane	Improved application techniques	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
110-82-7	Cyclohexane	Improved application techniques	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
110-82-7	Cyclohexane	Improved application techniques	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
110-82-7	Cyclohexane	Improved application techniques	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
110-82-7	Cyclohexane	Improved application techniques	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
110-82-7	Cyclohexane	Improved application techniques	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 - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
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
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	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
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	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
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	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
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	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
1330-20-7	Xylene (all isomers)	Modified equipment, layout or piping	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)	Modified equipment, layout or piping	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)	Modified equipment, layout or piping	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)	Modified equipment, layout or piping	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)	Modified equipment, layout or piping	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 - Improved inventory management or purchasing

techniques

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
110-82-7	Cyclohexane	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
108-88-3	Toluene	Instituted improved purchasing procedures	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

techniques

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
108-88-3	Toluene	Instituted improved purchasing procedures	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	Instituted improved purchasing procedures	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	Instituted improved purchasing procedures	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	Instituted improved purchasing procedures	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	Instituted improved purchasing procedures	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	Instituted improved purchasing procedures	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	Instituted improved purchasing procedures	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	Instituted improved purchasing procedures	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
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	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
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	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
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	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
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	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
1330-20-7	Xylene (all isomers)	Instituted improved purchasing procedures	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)	Instituted improved purchasing procedures	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)	Instituted improved purchasing procedures	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)	Instituted improved purchasing procedures	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)	Instituted improved purchasing procedures	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 - Materials or feedstock substitution

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
108-88-3	Toluene	Substituted materials	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	Substituted materials	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	Substituted materials	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	Substituted materials	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	Substituted materials	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	Substituted materials	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	Substituted materials	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	Substituted materials	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	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
1330-20-7	Xylene (all isomers)	Substituted materials	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
1330-20-7	Xylene (all isomers)	Substituted materials	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
1330-20-7	Xylene (all isomers)	Substituted materials	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
1330-20-7	Xylene (all isomers)	Substituted materials	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
1330-20-7	Xylene (all isomers)	Substituted materials	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)	Substituted materials	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)	Substituted materials	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)	Substituted materials	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)	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 - Product design or reformulation

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
110-82-7	Cyclohexane	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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
67-56-1	Methanol	Changed product specifications	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 - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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 - Good operator practice or training

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or	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	No Amount

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
		procedures	described:	
110-82-7	Cyclohexane	Improved maintenance scheduling, record keeping or procedures	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
141-78-6	Ethyl acetate	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
NA - 31	Heptane (all isomers)	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
67-56-1	Methanol	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M09	PM10 - Particulate Matter <= 10 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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
108-88-3	Toluene	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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	Training related to toxics substance reduction	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
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

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	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
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	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
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	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
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	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
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	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
1330-20-7	Xylene (all isomers)	Training related to toxics substance reduction	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)	Training related to toxics substance reduction	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)	Training related to toxics substance reduction	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)	Training related to toxics substance reduction	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)	Training related to toxics substance reduction	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
110-82-7	Cyclohexane	No		
141-78-6	Ethyl acetate	No		
NA - 31	Heptane (all isomers)	No		
67-56-1	Methanol	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
110-82-7	Cyclohexane	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
110-82-7	Cyclohexane	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
110-82-7	Cyclohexane	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
110-82-7	Cyclohexane	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.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
110-82-7	Cyclohexane	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.	
110-82-7	Cyclohexane	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
110-82-7	Cyclohexane	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.	
110-82-7	Cyclohexane	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.	
110-82-7	Cyclohexane	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
141-78-6	Ethyl acetate	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
141-78-6	Ethyl acetate	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
141-78-6	Ethyl acetate	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
141-78-6	Ethyl acetate	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.	
141-78-6	Ethyl acetate	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.	
141-78-6	Ethyl acetate	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
141-78-6	Ethyl acetate	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.	
141-78-6	Ethyl acetate	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.	
141-78-6	Ethyl acetate	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 - 31	Heptane (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.	
NA - 31	Heptane (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.	
NA - 31	Heptane (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.	
NA - 31	Heptane (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.	
NA - 31	Heptane (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.	
NA - 31	Heptane (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.	
NA - 31	Heptane (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.	
NA - 31	Heptane (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.	
NA - 31	Heptane (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.	
67-56-1	Methanol	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
67-56-1	Methanol	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.	
67-56-1	Methanol	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.	
67-56-1	Methanol	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	
67-56-1	Methanol	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.	
67-56-1	Methanol	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.	
67-56-1	Methanol	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 - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M09	PM10 - Particulate Matter <= 10 Microns	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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns	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 - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	The amount of reduction in **creation** of the substance 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 **contained in product** at the facility during the reporting period that resulted due to the additional actions.	
108-88-3	Toluene	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.	
108-88-3	Toluene	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.	
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.	

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
110-82-7	Cyclohexane	No		
141-78-6	Ethyl acetate	No		
NA - 31	Heptane (all isomers)	No		
67-56-1	Methanol	No		
NA - M09	PM10 - Particulate Matter <= 10	No		

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
	Microns			
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
108-88-3	Toluene	No		
1330-20-7	Xylene (all isomers)	No		

Empty

Version: 3.15.0