



SUNCOR ENERGY INC.

ST. CLAIR ETHANOL PLANT
535 ROKEBY LINE
MOORETOWN, ONTARIO
N0N 1M0
TEL (519) 481-0454

2017 TOXICS REDUCTION ACT

Toxic Substance Reduction Plan Summaries

Suncor Energy Inc.
St. Clair Ethanol Plant
535 Rokeby Line
Mooretown, Ontario
N0N 1M0

June 1, 2018



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INTRODUCTION

Suncor Energy Inc. (Suncor) operates an ethanol production plant, designated as the St. Clair Ethanol Plant, to supply ethanol for blending with their gasoline products. Ethanol provides a cleaner burning fuel blend and displaces gasoline for transportation.

Protection of the environment is a fundamental Suncor value. It is our responsibility to determine and manage the impacts of our business through programs like the Toxics Reduction Act.

These toxics substance reduction plan summaries have been prepared to meet the regulatory obligations specified in Section 8 of the Act and has been prepared in accordance with the requirements of Section 24 of Ontario Regulation (O. Reg.) 455/09, as amended from time to time. It meets the relevant reporting requirements and will be updated, as required by the Act and O. Reg. 455/09.

For more information on the Toxics Reduction Act and O. Reg. 455/09 visit: <https://www.ontario.ca/page/ontario-toxics-reduction-program-guide-regulated-facilities>.

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	CO
CAS #	124-38-9
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of CO, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of CO through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>100 to 1000	>100 to 1000	> -1 to -10	-1%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of CO created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	SO2
CAS #	7446-09-5
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of SO2, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of SO2 through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	>0 to -1	-2%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of SO2 created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	NOx
CAS #	10102-44-0
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of NOx, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of NOx through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>100 to 1000	>100 to 1000	>0 to -1	-1%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of NOx created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PM2.5
CAS #	N/A - M10
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of PM2.5, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of PM2.5 through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	>0 to -1	-1%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of PM2.5 created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PM10
CAS #	N/A - M09
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of PM10, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of PM10 through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	>0 to -1	-2%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of PM10 created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	PM
CAS #	N/A - M08
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of PM, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of PM through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	> -1 to -10	-2%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of PM created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Ethanol (Ethyl Alcohol)
CAS #	64-17-5
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of Ethanol (Ethyl Alcohol), the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of Ethanol (Ethyl Alcohol) through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	> -1 to -10	-3%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Ethanol (Ethyl Alcohol) created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Cyclohexane
CAS #	110-82-7
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of Cyclohexane, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of Cyclohexane through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -1 to -10	-5%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	> -1 to -10	-5%
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Cyclohexane used at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	1,2,4-Trimethylbenzene
CAS #	95-63-6
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of 1,2,4-Trimethylbenzene, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of 1,2,4-Trimethylbenzene through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>10 to 100	> -1 to -10	-5%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>10 to 100	> -1 to -10	-5%
Summary of reasons for changes between current year and previous year.	No significant change in the amount of 1,2,4-Trimethylbenzene used at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Ammonia
CAS #	7664-41-7
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of Ammonia, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of Ammonia through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	0	> -100 to -1000	-100%
C - Created	0	0	0	NA
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	Changes to enzyme allowed for the removal of Ammonia from process			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Eliminated within the process with no plans to reintroduce
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	N-Hexane
CAS #	110-54-3
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of N-Hexane, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of N-Hexane through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>10 to 100	> -1 to -10	-5%
C - Created	>1 to 10	>1 to 10	>0 to -1	-2%
P - In a product that leaves the process	>100 to 1000	>10 to 100	> -1 to -10	-5%
Summary of reasons for changes between current year and previous year.	N-Hexane was identified as a component of the denaturant			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Propane
CAS #	74-98-6
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of Propane, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of Propane through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-1%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Propane created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Ethyl Acetate
CAS #	141-78-6
Report Date:	June 1, 2018
Plan Date:	18-Dec-13
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of Ethyl Acetate, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of Ethyl Acetate through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Ethyl Acetate created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	Not Applicable
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	Not Applicable
Summary of differences between steps taken and those set out in the plan.	Not Applicable
Description of amendments to the plan.	Not Applicable

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Xylenes (Mixed Isomers)
CAS #	1330-20-7
Report Date:	June 1, 2018
Plan Date:	31-Dec-12
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of xylenes, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of xylenes through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-5%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	> -10 to -100	-5%
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Xylenes (Mixed Isomers) used at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	none
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	none
Summary of differences between steps taken and those set out in the plan.	none
Description of amendments to the plan.	none

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Toluene
CAS #	108-88-3
Report Date:	June 1, 2018
Plan Date:	31-Dec-12
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of toluene, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of toluene through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -10 to -100	-5%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	> -10 to -100	-5%
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Toluene used at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	none
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	none
Summary of differences between steps taken and those set out in the plan.	none
Description of amendments to the plan.	none

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Ethyl Benzene
CAS #	100-41-4
Report Date:	June 1, 2018
Plan Date:	31-Dec-12
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of ethyl benzene, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of ethyl benzene through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>100 to 1000	> -1 to -10	-7%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>100 to 1000	> -1 to -10	-7%
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Ethyl Benzene used at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	none
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	none
Summary of differences between steps taken and those set out in the plan.	none
Description of amendments to the plan.	none

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Naphthalene
CAS #	91-20-3
Report Date:	June 1, 2018
Plan Date:	31-Dec-12
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of naphthalene, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of naphthalene through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>100 to 1000	>10 to 100	> -1 to -10	-5%
C - Created	0	0	0	NA
P - In a product that leaves the process	>100 to 1000	>10 to 100	> -1 to -10	-5%
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Naphthalene used at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	none
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	none
Summary of differences between steps taken and those set out in the plan.	none
Description of amendments to the plan.	none

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Methanol (Methyl Alcohol, Wood Alcohol)
CAS #	67-56-1
Report Date:	June 1, 2018
Plan Date:	31-Dec-12
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation or use of methanol, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of methanol through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>1 to 10	>1 to 10	>0 to -1	-3%
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Methanol (Methyl Alcohol, Wood Alcohol) created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	none
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	none
Summary of differences between steps taken and those set out in the plan.	none
Description of amendments to the plan.	none

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Sulphuric Acid
CAS #	7664-93-6
Report Date:	June 1, 2018
Plan Date:	31-Dec-12
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the use of sulphuric acid, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of sulphuric acid through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	>1000 to 10,000	>1000 to 10,000	> -100 to -1000	-8%
C - Created	0	0	0	NA
P - In a product that leaves the process	0	0	0	NA
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Sulphuric Acid used at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	none
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	none
Summary of differences between steps taken and those set out in the plan.	none
Description of amendments to the plan.	none

Suncor Energy Inc. - St. Clair Ethanol Plant

Toxics Reduction Public Summary Report

Substance Information and Plan Objective

Substance Name	Acetaldehyde
CAS #	75-07-0
Report Date:	June 1, 2018
Plan Date:	31-Dec-12
Plan Objectives and Targets	While the St. Clair Ethanol Plant does not intend to reduce the creation of acetaldehyde, the plan was developed with the following objectives - we will continue to operate in compliance with all applicable environmental regulations; and we will continue to manage releases of acetaldehyde through current and future pollution prevention and best management practices.

Toxics Substance Accounting and Comparison

Pathways	2016	2017	Delta	Delta %
Units reported	tonnes	tonnes		
U - Enters the Process (Raw Materials)	0	0	0	NA
C - Created	>10 to 100	>10 to 100	> -1 to -10	-2%
P - In a product that leaves the process	>10 to 100	>10 to 100	>0 to -1	-1%
Summary of reasons for changes between current year and previous year.	No significant change in the amount of Acetaldehyde created at the facility			

On-site releases from the facility to air, water and land, as well as on and off-site disposal and off-site recycling can be viewed by searching for this facility at <http://www.ec.gc.ca/inrp-npri/default.asp?lang=en>

Progress in Implementing Plan

Summary of steps taken during the previous calendar year to implement the plan and a summary of the toxics reductions achieved as a result of the steps taken.	none
Summary of additional actions taken during the previous calendar year that impacted the toxic, and a summary of the steps and toxics reductions achieved as a result of those actions.	none
Summary of differences between steps taken and those set out in the plan.	none
Description of amendments to the plan.	none