



# 2017 TOXICS REDUCTION ACT

## Report on Toxic Substance Accounting Requirements

**VERSION 1.0**

Petro-Canada Lubricants Inc.  
385 Southdown Road  
Mississauga, Ontario  
L5J 2Y3

June 2018



## Version Control

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## 1.0 INTRODUCTION

Petro-Canada Lubricants Inc. (PCLI), a HollyFrontier company, is a world-scale supplier of products ranging from automobile lubricants to white oils for the pharmaceutical market. Finished goods are shipped nationally and internationally to customers familiar with our growing reputation for high quality, environment-friendly fluids.

The Lubricants Centre is located on the shore of Lake Ontario beside a residential community in Mississauga, Ontario.

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

This annual toxics substance accounting report has been prepared to meet the regulatory obligations specified in Section 10 of the Act and has been prepared in accordance with the requirements of Section 27(1) of Ontario Regulation (O. Reg.) 455/09, as amended from time to time. It summarizes the relevant reporting requirements and will be updated, as required by the Act and O. Reg. 455/09.

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



## 2.0 REPORTING CRITERIA

Section 3(1) of the Act specifies the criteria requiring the preparation of a toxic substance plan. These criteria are as follows:

*3. (1) The owner and the operator of a facility shall ensure that a toxic substance reduction plan is prepared for a toxic substance in accordance with this Act and the regulations if all of the following criteria are met:*

- 1. The facility belongs to a class of facilities prescribed by the regulations.*
- 2. The number of persons employed at the facility exceeds the number of persons prescribed by the regulations.*
- 3. The toxic substance is used or created at the facility and the amounts of the substance that are used or created meet the criteria prescribed by the regulations.*
- 4. Such other criteria as are prescribed by the regulations. 2009, c. 19, s. 3 (1).*

Specific criteria are outlined in O. Reg. 455/09. The following sections detail the criteria and applicability to the PCLI facility.

### 2.1 Class of Facility

Section 4(1) of O. Reg. 455/09 specifies the types of facilities subject to toxic substance reduction planning and includes facilities that begin in North American Industry Classification System code “31”, “32” or “33” and “212”.

The PCLI facility carries out processes and activities related to “Petroleum and Coal Product Manufacturing”, which begins in NAICS code “32”, which is a code identified in O. Reg. 455/09.

### 2.2 Number of Persons

Section 5 of O. Reg. 455/09 specifies the numbers of persons at a facility must be greater than zero. As of December 31, 2017, the PCLI facility employed 430 persons.

### 2.3 Amounts of Toxic Substance Used or Created

Section 6 of O. Reg. 455/09 specifies that amounts of a toxic substance used or created must exceed zero. The use or creation of toxic substances for which accounting is required is greater than zero (refer to Section 4).



## 2.4 Other Criteria

Section 7(1) of O. Reg. 455/09 requires the owner and operator of a facility provide information on National Pollutant Release Inventory (NPRI) substances if reporting to the NPRI is required; or if the substance is acetone and reporting under Ontario Regulation 127/01 (Airborne Contaminant Discharge Monitoring and Reporting) made under the Environmental Protection Act applies.

In 2017, PCLI was required to report to the NPRI. Specifically, PCLI met the reporting requirements for the following substances listed in Schedule A of O. Reg. 455/09:

### ***NPRI Part 1A Substances:***

- 1,2,4-Trimethylbenzene
- Asbestos
- Benzene
- Biphenyl
- Cyclohexane
- Diethanolamine
- Ethylbenzene
- Hexane (-n)
- Hydrogen Sulphide
- Methanol
- Methyl Ethyl Ketone
- Molybdenum Trioxide
- Naphthalene
- Nickel compounds
- Propylene
- Sulphuric Acid
- Toluene
- Total Reduced Sulphur
- Xylene (all isomers)
- Zinc compounds

### ***NPRI Part 4 Substances:***

- Carbon Monoxide
- Nitrogen Oxides
- Total Particulate Matter
- PM10 - Particulate Matter <10 Microns
- PM2.5 - Particulate Matter <2.5 Microns
- Sulphur Dioxide





**NPRI Part 5 Substances:**

- Butane (all isomers)
- Hexane (-n) (*also reported as a Part 1A Substance*)
- Isopropyl Alcohol
- Methanol (*also reported as a Part 1A Substance*)
- Methyl Ethyl Ketone (*also reported as a Part 1A Substance*)
- Propane
- Propylene (*also reported as a Part 1A Substance*)
- Pentane (all isomers)
- Toluene (*also reported as a Part 1A Substance*)





### 3.0 GENERAL FACILITY INFORMATION

Table 3-1 summarizes the general facility information with reference to the Act and/or O. Reg. 455/09.

**Table 3-1: General Facility Information**

Reporting Requirement	Facility Information	Reference to Act and/or O. Reg. 455/09
Parent Company Name	HollyFrontier Corporation	O. Reg. 455/09 s.18(2) subparagraph 14
Parent Company Address	2828 N. Harwood, Suite 1300 Dallas, TX 75201	O. Reg. 455/09 s.18(2) subparagraph 14
Facility Name	Mississauga Lubricants Centre	O. Reg. 455/09 s.18(2) subparagraph 4
Facility Address	385 Southdown Road Mississauga, Ontario L5J 2Y3	O. Reg. 455/09 s.18(2) subparagraph 4
Universal Transverse Mercator (UTM) in North American Datum (NAD83)	Zone 17 X [m] 612097 Y [m] 4817199	O. Reg. 455/09 s.18(2) subparagraph 13
National Pollutant Release Inventory Identification Number	3899	O. Reg. 455/09 s.18(2) subparagraph 2
Ontario Regulation 127/01 Identification Number	5119	O. Reg. 455/09 s.18(2) subparagraph 3
Two Digit North American Industry Classification System (NAICS) Code	32 – Manufacturing	O. Reg. 455/09 s.18(2) subparagraph 6
Four Digit North American Industry Classification System (NAICS) Code	3241 – Petroleum and Coal Product Manufacturing	O. Reg. 455/09 s.18(2) subparagraph 6
Six Digit North American Industry Classification System (NAICS) Code	324190 – Other Petroleum and Coal Product Manufacturing CAN	O. Reg. 455/09 s.18(2) subparagraph 6
Number of Full-time Employee Equivalents at the Facility	432 (as of December 31, 2017)	O. Reg. 455/09 s.18(2) subparagraph 5
Facility Public Contact	Corinn Smith Manager, Global Communications & Stakeholder Relations 2310 Lakeshore Road W Mississauga, Ontario, L5J 1K2 Tel: 905-491-0397 Email:corinn.smith@petrocanadalsp.com	O. Reg. 455/09 s.18(2) subparagraph 7

## 4.0 SUBSTANCE REPORTING

In accordance with s. 26(1) subparagraphs 2 and 7, PCLI made determinations for each substance reportable under the Act as follows:

- 1) The amount of the substance that enters a process as the substance itself or as a constituent of another substance.
- 2) The amount of the substance that is created.
- 3) If the substance is a NPRI substance,
  - i. quantifications relating to its release, disposal and transfer that,
    - A. are required to be provided under the NPRI Notice, or
    - B. are determined through mass balance, published emission factors, site specific emission factors or engineering estimates, if no quantifications were required to be provided under the NPRI Notice, and
  - ii. the amount of the substance that is contained in product, other than a substance that is identified as a criteria air contaminant or a volatile organic compound in the NPRI Notice.
- 4) If the toxic substance is acetone, the calculations mentioned in subsection 4 (3) of Ontario Regulation 127/01 (Airborne Contaminant Discharge Monitoring and Reporting) made under the Environmental Protection Act.

For the purposes of maintaining confidentiality, PCLI has reported 'Use', 'Created' and 'Contained in Product' quantities in the bands and ranges prescribed by the Ontario Ministry of the Environment. The band and ranges specified by the Ontario Ministry of the Environment are summarized as follows:

- >0 to 1
- >1 to 10
- >10 to 100
- >100 to 1,000
- >1,000 to 10,000
- >10,000 to 100,000
- >100,000 to 1,000,000

The units of measure depend upon the substance being reported under the NPRI and O. Reg. 127/01. Generally, release, disposal and recycling quantities are reported in tonnes. However, for substances with alternate reporting thresholds, these quantities are reported in kilograms or grams.

- NPRI Part 1A – Substances listed at the original NPRI threshold [tonnes]
- NPRI Part 1B – Metals listed at an alternate threshold [kilograms]
- NPRI Part 2 – Polycyclic aromatic compounds (PAHs), [kilograms]
- NPRI Part 3 – Hexachlorobenzene (HCB), Dioxins/furans (toxic equivalent), [grams]
- NPRI Part 4 – Criteria Air Contaminants (CACs) [tonnes]
- NPRI Part 5 – Speciated volatile organic compounds [tonnes]
- O. Reg. 127/01 – Acetone [tonnes]



The following sections summarize the information outlined above for each substance.

**Note:**

'—' is equal to zero in the tables below.

'0.0000' is a value greater than zero and greater than four (4) decimal places.

#### 4.1 1,2,4-Trimethylbenzene (CAS Number 95-63-6)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	6%	95.35	No significant change
Created (tonnes)	>1,000 to 10,000	>1,000 to 10,000	2%	103.80	No significant change
Contained in Product (tonnes)	>1,000 to 10,000	>1,000 to 10,000	3%	199.15	No significant change
Air Releases (tonnes)	0.0620	0.0599	4%	0.0021	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



## 4.2 Asbestos (CAS Number 1332-21-4)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	—	—	—	—	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	27.77	2.37	1072%	25.40	Facility opted to increase disposal of substance this year
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



### 4.3 Benzene (CAS Number 71-43-2)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	6%	91.58	No significant change
Created (tonnes)	>10,000 to 100,000	>10,000 to 100,000	3%	305.12	No significant change
Contained in Product (tonnes)	>10,000 to 100,000	>10,000 to 100,000	3	393.33	No significant change
Air Releases (tonnes)	0.3183	0.5017	-37%	-0.1834	Lower emissions from Platformate loading
Water Releases (tonnes)	0.3356	0.0251	1235%	0.3105	Heat exchanger leak
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



#### 4.4 Biphenyl (CAS Number 92-52-4)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	-6%	-317.72	No significant change
Created (tonnes)	>0 to 1	>0 to 1	-2%	-0.0001	No significant change
Contained in Product (tonnes)	>1,000 to 10,000	>1,000 to 10,000	7%	135.71	No significant change
Air Releases (tonnes)	0.0109	0.0110	-1%	-0.0001	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



## 4.5 Cyclohexane (CAS Number 110-82-7)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	5%	221.91	No significant change
Created (tonnes)	>100 to 1,000	>100 to 1,000	19%	36.91	Higher throughput of Naphtha
Contained in Product (tonnes)	>1,000 to 10,000	>1,000 to 10,000	6%	181.41	No significant change
Air Releases (tonnes)	0.0768	0.1087	-29%	-0.0319	Lower fugitive emissions
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



## 4.6 Diethanolamine (CAS Number 111-42-2)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>10 to 100	>10 to 100	-50%	-39.10	Decrease in production levels
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	0.2022	0.2047	-1%	-0.0025	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change





## 4.7 Ethylbenzene (CAS Number 100-41-4)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	6%	69.69	No significant change
Created (tonnes)	>1,000 to 10,000	>1,000 to 10,000	2%	66.05	No significant change
Contained in Product (tonnes)	>1,000 to 10,000	>1,000 to 10,000	3%	134.66	No significant change
Air Releases (tonnes)	0.1510	0.1533	-1%	-0.0023	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change





## 4.8 Hexane (-n) (CAS Number 110-54-3)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	5%	392.60	No significant change
Created (tonnes)	>1,000 to 10,000	>1,000 to 10,000	3%	161.30	No significant change
Contained in Product (tonnes)	>10,000 to 100,000	>10,000 to 100,000	2%	214.10	No significant change
Air Releases (tonnes)	5.1409	5.0947	1%	0.0462	No significant change
Water Releases (tonnes)	—	—	N/A	N/A	No significant change
Land Releases (tonnes)	—	—	N/A	N/A	No significant change
On-site Disposal (tonnes)	—	—	N/A	N/A	No significant change
Transferred for Disposal (tonnes)	—	—	N/A	N/A	No significant change
Transferred for Treatment (tonnes)	—	—	N/A	N/A	No significant change
Transferred for Recycling (tonnes)	—	—	N/A	N/A	No significant change



## 4.9 Hydrogen Sulphide (CAS Number 7783-06-4)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	0	>0 to 1	-100%	-0.0099	No catalyst turnaround in 2017
Created (tonnes)	>10,000 to 100,000	>10,000 to 100,000	-1%	-98.00	No significant change
Contained in Product (tonnes)	>0 to 1	>0 to 1	-17%	-0.07	Less liquid Sulphur in 2017
Air Releases (tonnes)	0.9971	0.8260	21%	0.1711	Higher throughput of Naphtha
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



#### 4.10 Methanol (CAS Number 67-56-1)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>10 to 100	>10 to 100	8%	1.27	No significant change
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	3.5155	3.2559	8%	0.2596	No significant change
Water Releases (tonnes)	—	—	N/A	N/A	No significant change
Land Releases (tonnes)	—	—	N/A	N/A	No significant change
On-site Disposal (tonnes)	—	—	N/A	N/A	No significant change
Transferred for Disposal (tonnes)	—	—	N/A	N/A	No significant change
Transferred for Treatment (tonnes)	—	—	N/A	N/A	No significant change
Transferred for Recycling (tonnes)	—	—	N/A	N/A	No significant change



#### 4.11 Methyl Ethyl Ketone (CAS Number 78-93-3)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>100 to 1,000	>100 to 1,000	-8%	-25.87	No significant change
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	1.2153	1.5194	-20%	-0.3041	Lower fugitive emissions
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



## 4.12 Molybdenum Trioxide (CAS Number 1313-27-5)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>10 to 100	>10 to 100	-1%	-0.12	No significant change
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	—	—	—	—	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	0	0.1158	-100%	-0.1158	No catalyst handling in 2017
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



### 4.13 Naphthalene (CAS Number 91-20-3)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	-18%	-936.89	Reduced throughput of gas oil
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	>100 to 1,000	>100 to 1,000	2%	5.62	No significant change
Air Releases (tonnes)	0.0352	0.0420	-16%	-0.0068	Lower fugitive emission in 2017
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



#### 4.14 Nickel (CAS Number, Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>10 to 100	>10 to 100	0%	0.02	No significant change
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	0.1243	0.1008	23%	0.0235	Increased usage of fuel oil
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change





#### 4.15 Propylene (CAS Number 115-07-1)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>100 to 1,000	>100 to 1,000	7%	10.91	No significant change
Created (tonnes)	>1 to 10	>1 to 10	55%	1.14	Control valve issue
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	56.1665	32.4933	73%	23.6732	Control valve issue
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



## 4.16 Sulphuric Acid (CAS Number 7664-93-9)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>10 to 100	>10 to 100	-43%	-35.96	Reduced use in waste water treatment
Created (tonnes)	>10 to 100	>10 to 100	-23%	-5.78	Corrected flow calibration issue from 2016
Contained in Product (tonnes)	—	—	—	—	No significant change
Air Releases (tonnes)	19.2332	25.0158	-23%	-5.7826	Corrected flow calibration issue from 2016
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



#### 4.17 Toluene (CAS Number 108-88-3)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	5%	246.56	No significant change
Created (tonnes)	>10,000 to 100,000	>10,000 to 100,000	2%	561.15	No significant change
Contained in Product (tonnes)	>10,000 to 100,000	>10,000 to 100,000	3%	846.50	No significant change
Air Releases (tonnes)	1.4633	1.7195	-15%	-0.2562	Lower emission from Platformate loading
Water Releases (tonnes)	1.6860	0.0072	23,000%	1.6788	Heat exchanger leak
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



#### 4.18 Total Reduced Sulphur (CAS Number Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	0	>0 to 1	-100%	-0.0099	No catalyst turnaround in 2017
Created (tonnes)	>10,000 to 100,000	>10,000 to 100,000	-1%	-98.00	No significant change
Contained in Product (tonnes)	>0 to 1	>0 to 1	-17%	-0.0697	Less liquid Sulphur in 2017
Air Releases (tonnes)	0.9971	0.8260	21%	0.1711	Increased boiler fuel use
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change





#### 4.19 Xylene (CAS Number 1330-20-7)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	6%	328.19	No significant change
Created (tonnes)	>10,000 to 100,000	>10,000 to 100,000	2%	173.57	No significant change
Contained in Product (tonnes)	>10,000 to 100,000	>10,000 to 100,000	3%	496.68	No significant change
Air Releases (tonnes)	0.4468	0.4692	-5%	-0.0224	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	—	—	—	—	No significant change
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



## 4.20 Zinc (CAS Number Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>100 to 1,000	>100 to 1,000	1%	1.74	No significant change
Created (tonnes)	—	—	—	—	No significant change
Contained in Product (tonnes)	>100 to 1000	>100 to 1000	3%	3.44	No significant change
Air Releases (tonnes)	0.1196	0.1096	9%	0.0100	No significant change
Water Releases (tonnes)	—	—	—	—	No significant change
Land Releases (tonnes)	—	—	—	—	No significant change
On-site Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Disposal (tonnes)	—	—	—	—	No significant change
Transferred for Treatment (tonnes)	0	1.7061	-100%	-1.7601	No catalyst turnaround in 2017
Transferred for Recycling (tonnes)	—	—	—	—	No significant change



#### 4.21 Carbon Monoxide (CAS Number 630-08-0)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	>10 to 100	>10 to 100	5%	3.25	No significant change
Air Releases (tonnes)	72.6503	69.4025	5%	3.2478	No significant change

#### 4.22 Nitrogen Oxides (CAS Number 11104-93-1)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	>100 to 1,000	>100 to 1,000	4%	23.14	No significant change
Air Releases (tonnes)	642.6966	619.5556	4%	23.1410	No significant change

#### 4.23 Total Particulate of Matter (CAS Number Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	>10 to 100	>10 to 100	6%	2.67	No significant change
Air Releases (tonnes)	47.6282	44.9578	6%	2.6704	No significant change



#### 4.24 PM10 – Particulate Matter <10 Microns (CAS Number Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	>10 to 100	>10 to 100	16%	3.37	Increased fuel consumption
Air Releases (tonnes)	24.2577	20.8873	16%	3.3684	Increased fuel consumption

#### 4.25 PM2.5 – Particulate Matter <2.5 Microns (CAS Number Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	>1 to 10	>10 to 100	19%	2.38	Increased fuel consumption
Air Releases (tonnes)	14.8390	12.4560	19%	2.3830	Increased fuel consumption







#### 4.26 Sulphur Dioxide (CAS Number 7446-09-5)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	>100 to 1,000	>100 to 1,000	-29%	-244.46	Corrected flow calibration issue from 2016
Air Releases (tonnes)	612.6333	857.0981	-29%	-244.4648	Corrected flow calibration issue from 2016

#### 4.27 Butane (all isomers) (CAS Number Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>100 to 1,000	>100 to 1,000	3%	14.13	No significant change
Created (tonnes)	>1,000 to 10,000	>1,000 to 10,000	1%	47.11	No significant change
Air Releases (tonnes)	7.1208	7.4758	-5%	-0.3550	No significant change



#### 4.29 Isopropyl Alcohol (CAS Number 67-63-0)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	—	—	—	—	No significant change
Created (tonnes)	>1 to 10	>1 to 10	42%	1.71	Increased operation of grease kettles
Air Releases (tonnes)	5.7568	4.0459	42%	1.7109	Increased operation of grease kettles

#### 4.30 Pentane (all isomers) (CAS Number Not Applicable)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>1,000 to 10,000	>1,000 to 10,000	5%	131.44	No significant change
Created (tonnes)	>1,000 to 10,000	>1,000 to 10,000	3%	243.62	No significant change
Air Releases (tonnes)	7.7352	7.6555	1%	0.0797	No significant change

#### 4.31 Propane (CAS Number 74-98-6)

Required Information	2017 Reporting Year	2016 Reporting Year	Change (%)	Change (tonnes)	Rationale For Change
Use (tonnes)	>100 to 1,000	>100 to 1,000	1%	4.57	No significant change
Created (tonnes)	>1,000 to 10,000	>1,000 to 10,000	3%	68.75	No significant change
Air Releases (tonnes)	5.6475	5.9520	-5%	-0.3045	No significant change





## 5.0 TOXIC SUBSTANCE REDUCTION PLAN SUMMARY

As described in the Toxic Substance Reduction Plan Summaries dated [December 1, 2013](#) and [December 3, 2012](#), there were no options identified for implementation, above and beyond the actions the Lubricants Centre has already taken, at this time. The plan will be reviewed in accordance with the Act and regulation, at which time, new options may be identified and considered for implementation.

Finally, there have been no amendments to the Toxic Substance Reduction Plan Summaries dated December 1, 2013 and December 3, 2012.





## 6.0 ANNUAL CERTIFICATION STATEMENT

In accordance with s. 19 of O. Reg. 455/09, the highest ranking employee at the facility electronically certified the toxic substance plan. A copy of the electronic certification is provided in Attachment 1.





## Attachment 1: Copy of Electronic Certification



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
	sulphide)			
1330-20-7	Xylene (all isomers)	No		
NA - 14	Zinc (and its compounds)	No		

## Report Submission and Electronic Certification

### NPRI - Electronic Statement of Certification

Specify the language of correspondence \_\_\_\_\_

English

Comments (optional) \_\_\_\_\_

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

I also acknowledge that the data will be made public.

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

Company Name \_\_\_\_\_

Petro-Canada Lubricants Inc.

Certifying Official (or authorized delegate) \_\_\_\_\_

J Gordon Pinard

Report Submitted by \_\_\_\_\_

J Gordon Pinard

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

### ON MOE TRA - Electronic Certification Statement

#### Annual Report Certification Statement

As of 01/06/2018, I, J Gordon Pinard, certify that I have read the reports on the toxic substance reduction plans for the toxic substances referred to below and am familiar with their contents, and to my knowledge the information contained in the reports is factually accurate and the reports comply with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

#### TRA Substance List

CAS RN

Substance Name

95-63-6

1,2,4-Trimethylbenzene

1332-21-4

Asbestos (friable form only)

71-43-2

Benzene

92-52-4

Biphenyl

NA - 24

Butane (all isomers)

630-08-0

Carbon monoxide

110-82-7

Cyclohexane

111-42-2

Diethanolamine (and its salts)

100-41-4

Ethylbenzene

7783-06-4

Hydrogen sulphide

67-63-0

Isopropyl alcohol

67-56-1

Methanol

78-93-3

Methyl ethyl ketone

1313-27-5

Molybdenum trioxide

91-20-3

Naphthalene

110-54-3

n-Hexane

NA - 11

Nickel (and its compounds)

11104-93-1	Nitrogen oxides (expressed as NO2)
NA - 35	Pentane (all isomers)
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
74-98-6	Propane
115-07-1	Propylene
7446-09-5	Sulphur dioxide
7664-93-9	Sulphuric acid
108-88-3	Toluene
NA - M08	Total Particulate Matter
NA - M14	Total reduced sulphur (expressed as hydrogen sulphide)
1330-20-7	Xylene (all isomers)
NA - 14	Zinc (and its compounds)

**Company Name**

Petro-Canada Lubricants Inc.

**Highest Ranking Employee**

J Gordon Pinard

**Report Submitted by**

J Gordon Pinard

**Website address**

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

**Submitted Report**

Period	Submission Date	Facility Name	Province	City	Programs
2017	01/06/2018	Mississauga Lubricants Centre	Ontario	Mississauga	NPRI,ON MOE TRA,NFPRER

Note: If there is a change in the contact information for the facility, a change in the owner or operator of the facility, if operations at the facility are terminated, or if information submitted for any previous year was mistaken or inaccurate, please update this information through SWIM or by contacting the National Pollutant Release Inventory directly.

Version: 3.14.0



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