

Toxics Reduction Act Public Annual Report 2019

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| The legal and trade names of the owner and the operator of the facility, the street address of the facility and, if the mailing address of the facility is different from the street address, the mailing address.(See below) | Winoa Canada inc. 650 Rusholme Road Welland ON L3B 5R4 | |
| Facility NPRI identification number | 11118 | |
| The identification number assigned to the facility by the Ministry of the Environment for the purposes of Ontario Regulation 127/01. | - | |
| Number of full-time employees | 62 | |
| North American Industry Classification System (NAICS) - 2, 4, and 6 digit codes | 31 - 33 Manufacturing 3279 - All other non-metallic mineral product manufacturing 327910 - Abrasive product manufacturing | |
| If applicable, the name, position and telephone number of the individual who is the contact at the facility for the public: | Brett Evans Quality and Environmental Manager 905-736-5139 | |
| Public Contact (if applicable) | | |
| Title | | |
| Phone Number | | |
| Address of each person below if not the same as the facility | | |
| Facility Name | Winoa Canada inc. | |
| Address 1 | 650 Rusholme Road | |
| Address 2 | 0 | |
| City | Welland | |
| Province | ON | |
| Postal Code | L3B 5R4 | |
| UTM coordinates, x and y | X 645669.68 | Y 4758822 |
| Datum | | WGS84 |
| Legal name of Canadian parent company, if your facility is a subsidiary of a Canadian parent company | | |
| Parent company name | Winoa Canada Inc. | |
| Address 1 | 650 Rusholme Road | |
| Address 2 | | |
| City | Welland | |
| Province | ON | |
| Postal Code | L3B 5R4 | |
| Percent Ownership | 100% | |

Substance Accounting

| | |
|---|-------------------------------|
| Substance: | Particulate Matter (10) |
| CAS Number: | NA - M09 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units 0.000 Mg |
| The amount of substance that was created: | >1 - 10 Mg |
| The amount of substance that was contained in product: | NA Mg |
| 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 | |

| | |
|---|-------------------------------|
| Substance: | Particulate Matter (2.5) |
| CAS Number: | NA - M10 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units 0.000 Mg |
| The amount of substance that was created: | >1 - 10 Mg |
| The amount of substance that was contained in product: | NA Mg |
| 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 | |

| | |
|---|--------------------------------------|
| Substance: | Manganese and its cpds |
| CAS Number: | NA - 09 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units >100 to 1000 Mg |
| The amount of substance that was created: | 0.000 Mg |
| The amount of substance that was contained in product: | >100 to 1000 Mg |
| 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 | |

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|---|-------------------------------|
| Substance: | Hexachlorobenzene |
| CAS Number: | 118-74-1 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units 0.0000 g |
| The amount of substance that was created: | 0.0000 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

Substance Accounting

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|---|--|
| Substance: | Polychlorinated Dibenzo-P-Dioxins & Polychlorinated Dibenzofurans |
| CAS Number: | NA - M11 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units |
| | 0.0000 g TEQ |
| The amount of substance that was created: | 0.0127 g TEQ |
| The amount of substance that was contained in product: | 0.0000 g TEQ |
| 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 | |

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|---|-------------------|
| Substance: | 2,3,7,8 -TCCD |
| CAS Number: | 1746-01-6 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units |
| | 0.0000 g |
| The amount of substance that was created: | 0.0024 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

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|---|-------------------|
| Substance: | 1,2,3,7,8 - PeCDD |
| CAS Number: | 40321-76-4 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units |
| | 0.0000 g |
| The amount of substance that was created: | 0.0040 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

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|---|---------------------|
| Substance: | 1,2,3,4,7,8 - HxCDD |
| CAS Number: | 39227-28-6 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units |
| | 0.0000 g |
| The amount of substance that was created: | 0.0002 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

Substance Accounting

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|---|-------------------------------|
| Substance: | 1,2,3,6,7,8 - HxCDD |
| CAS Number: | 57653-85-7 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units 0.0000 g |
| The amount of substance that was created: | 0.0013 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

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|---|-------------------------------|
| Substance: | 1,2,3,7,8,9 - HxCDD |
| CAS Number: | 19408-74-3 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units 0.0000 g |
| The amount of substance that was created: | 0.0005 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

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|---|-------------------------------|
| Substance: | 1,2,3,4,6,7,8 - HpCDD |
| CAS Number: | 35822-46-9 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units 0.0000 g |
| The amount of substance that was created: | 0.0016 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

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|---|-------------------------------|
| Substance: | OCDD |
| CAS Number: | 3268-87-9 |
| On a facility-wide basis: | |
| Amount that entered the facility as the substance itself or as a constituent of another substance: | Amount Units 0.0000 g |
| The amount of substance that was created: | 0.0027 g |
| The amount of substance that was contained in product: | 0.0000 g |
| 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 | |

Substance Accounting

Substance:
CAS Number:

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|----------------|
| 2,3,7,8 - TCDF |
| 51207-31-9 |

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

The amount of substance that was created:

| | |
|--------|---|
| 0.0103 | g |
|--------|---|

The amount of substance that was contained in product:

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

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>

Substance:
CAS Number:

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|-------------------|
| 2,3,4,7,8 - PeCDF |
| 57117-31-4 |

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

The amount of substance that was created:

| | |
|--------|---|
| 0.0096 | g |
|--------|---|

The amount of substance that was contained in product:

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

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>

Substance:
CAS Number:

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|-------------------|
| 1,2,3,7,8 - PeCDF |
| 57117-41-6 |

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

The amount of substance that was created:

| | |
|--------|---|
| 0.0237 | g |
|--------|---|

The amount of substance that was contained in product:

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

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>

Substance:
CAS Number:

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|---------------------|
| 1,2,3,4,7,8 - HxCDF |
| 70648-26-9 |

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

The amount of substance that was created:

| | |
|--------|---|
| 0.0050 | g |
|--------|---|

The amount of substance that was contained in product:

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

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>

Substance Accounting

| | |
|-------------|---------------------|
| Substance: | 1,2,3,7,8,9 - HxCDF |
| CAS Number: | 72918-21-9 |

| On a facility-wide basis: | Amount | Units |
|--|--------|-------|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | 0.0000 | g |
| The amount of substance that was created: | 0.0013 | g |
| The amount of substance that was contained in product: | 0.0000 | g |

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>

| | |
|-------------|---------------------|
| Substance: | 1,2,3,6,7,8 - HxCDF |
| CAS Number: | 57117-44-9 |

| On a facility-wide basis: | Amount | Units |
|--|--------|-------|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | 0.0000 | g |
| The amount of substance that was created: | 0.0030 | g |
| The amount of substance that was contained in product: | 0.0000 | g |

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>

| | |
|-------------|---------------------|
| Substance: | 2,3,4,6,7,8 - HxCDF |
| CAS Number: | 60851-34-5 |

| On a facility-wide basis: | Amount | Units |
|--|--------|-------|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | 0.0000 | g |
| The amount of substance that was created: | 0.0019 | g |
| The amount of substance that was contained in product: | 0.0000 | g |

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>

| | |
|-------------|-----------------------|
| Substance: | 1,2,3,4,6,7,8 - HpCDF |
| CAS Number: | 67562-39-4 |

| On a facility-wide basis: | Amount | Units |
|--|--------|-------|
| Amount that entered the facility as the substance itself or as a constituent of another substance: | 0.0000 | g |
| The amount of substance that was created: | 0.0033 | g |
| The amount of substance that was contained in product: | 0.0000 | g |

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>

Substance Accounting

Substance:
CAS Number:

| |
|-----------------------|
| 1,2,3,4,7,8,9 - HpCDF |
| 55673-89-7 |

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

The amount of substance that was created:

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

The amount of substance that was contained in product:

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

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>

Substance:
CAS Number:

| |
|------------|
| OCDP |
| 39001-02-0 |

On a facility-wide basis:

Amount that entered the facility as the substance itself or as a constituent of another substance:

Amount Units

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

The amount of substance that was created:

| | |
|--------|---|
| 0.0010 | g |
|--------|---|

The amount of substance that was contained in product:

| | |
|--------|---|
| 0.0000 | g |
|--------|---|

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>

Annual Progress Report - Calendar 2019

Substances for which toxic substance reduction plans have been prepared:

| Substance | CASRN |
|---|----------------|
| Particulate Matter less than or equal to 10 microns (PM ₁₀) | NA - M09 |
| Particulate Matter less than or equal to 2.5 microns (PM _{2.5}) | NA - M10 |
| Manganese (and its compounds) | NA - 09 |
| Hexachlorobenzene | 118-74-1 |
| PCCD/F | Not Applicable |
| 2,3,7,8 -TCCD | 1746-01-6 |
| 1,2,3,7,8 - PeCDD | 40321-76-4 |
| 1,2,3,4,7,8 - HxCDD | 39227-28-6 |
| 1,2,3,6,7,8 - HxCDD | 57653-85-7 |
| 1,2,3,7,8,9 - HxCDD | 19408-74-3 |
| 1,2,3,4,6,7,8 - HpCDD | 35822-46-9 |
| OCDD | 3268-87-9 |
| 2,3,7,8 - TCDF | 51207-31-9 |
| 2,3,4,7,8 - PeCDF | 57117-31-4 |
| 1,2,3,7,8 - PeCDF | 57117-41-6 |
| 1,2,3,4,7,8 - HxCDF | 70648-26-9 |
| 1,2,3,7,8,9 - HxCDF | 72918-21-9 |
| 1,2,3,6,7,8 - HxCDF | 57117-44-9 |
| 2,3,4,6,7,8 - HxCDF | 60851-34-5 |
| 1,2,3,4,6,7,8 - HpCDF | 67562-39-4 |
| 1,2,3,4,7,8,9 - HpCDF | 55673-89-7 |
| OCDF | 39001-02-0 |

Plan Objectives

Winoia Canada's goal is to reduce the creation and release of Particulate Matter less than 10 microns (PM₁₀) Particulate Matter less than or equal to 2.5 Microns (PM_{2.5}), Manganese (and its compounds), hexachlorobenzene and dioxin and furan isomers where technically and economically feasible. Based on currently available information and technologies, there are no technically and economically reduction options currently available for these substances. The facility will continue to monitor technological advancements to ensure that reduction options that are both technological and financially viable are implemented at our facility. In terms of the metal species noted above, Panabrasive cannot reduce the use of these substances as they are integral components of the alloys produced by the facility. However, we will ensure the sound management and use of these substances that minimizes significant adverse impacts on human health and the environment.

Toxics Reduction Progress

Overall the reported quantities of all substances remain essentially unchanged from the previous reporting period. Increases in the quantity of Manganese disposed onsite relate to the movement of the slag stored onsite to the onsite landfill once work on the landfill had been completed.

Plan Implementation Progress

There were no reduction options identified in any of the plans for the above noted substances that were identified as being both technically and economically feasible. As such, there were no timelines presented in the reduction plans for the above noted substances. However, Panabrasive will continue to explore and investigate potential reduction options as they arise as part of their sustainability program.

As there were no anticipated reductions noted in each of the plans for the toxic substances noted above, there were no reductions of any toxic substances during the reporting period that would be attributable to any reduction plan.

Certification Statement

As of May 12, 2020, I certify that I have read the reports on the toxic substance reduction plans for Manganese (and its compounds), PM10, PM2.5, Hexachlorobenzene, Polychlorinated Dibenzo-P-Dioxins & Polychlorinated Dibenzofurans and their 17 congeners 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 the Act.

The original version of this report is signed off by:

Highest Ranking Employee:

Title:

Phone Number:

| |
|------------------------------|
| Jeff Glaser |
| VP North American Operations |
| 905-736-5133 |

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.