

# Report Preview

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## Company Details

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Name

Brimac Anodizing Ltd.

Address

542 Kipling Avenue, Toronto (Ontario)

## Report Details

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Report Status

Submitted

2014

Report Type

Inventory

Facility Name

BRIMAC ANODIZING (1985) LIMITED

Facility Address

542 Kipling Avenue, Toronto (Ontario)

Update Comments

## Activity Details

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### Applicable Programs

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Please select all that apply.

#### Environment Canada Programs

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NPRI - National Pollutant Release Inventory

#### Partnering Programs

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ON MOE TRA - Ontario Ministry of the Environment for the Toxic Reductions Act

ON MOE Reg. 127/01 - Ontario Ministry of the Environment for the Airborne Contaminant Discharge Monitoring and Reporting Regulation

- NERM - Chemistry Industry Association of Canada for the National Emission Reduction Masterplan survey
- NFPRER - National Framework for Petroleum Refinery Emission Reductions

## Contacts

---

Select the appropriate person from the drop-down menu for each contact.

## Facility Contacts

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Select the appropriate person from the drop-down menu for each contact.

Technical Contact: \*

Mark Cotter

Certifying Official (or authorized delegate): \*

Colin Brighton

Highest Ranking Employee: \*

Colin Brighton

Person who prepared the report: \*

Mark Cotter

Person who coordinated the preparation of the Toxics Reduction Plan (required after a plan summary has been submitted)

Company Coordinator (optional)

Public Contact (optional)

Contractor Contact (optional)

Mark Cotter

If you are an independent contractor or consultant, please enter your company name in the field below

Cotter Associates Ltd.

## Reasons for adding/removing substances

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### Substances added to the report

---

Please indicate the reasons why the following substances were added to the report:

---

Empty

## Substances removed from the report

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Please indicate the reasons why the following substances were removed from the report:

---

Empty

## Employees and Activities

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### Employees

---

Number of Employees \*

### Activities

---

If your facility was engaged in any of the following activities, check the relevant box(es), otherwise click "None of the Above". For the second "Activities" list, if you select one of these activities then you must report dioxins, furans and hexachlorobenzene.

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply: (check all that apply) \*

Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene: (check all that apply) \*

### Activities Relevant to Reporting of Polycyclic Aromatic Hydrocarbons (PAHs)

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Did the following activity take place at the facility?

Wood preservation using creosote: \*

### General Facility Information

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#### NPRI

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Is this the first time the facility is reporting to the NPRI (under current or past ownership)? \*

Is the facility controlled by another Canadian company or companies? \*

Did the facility report under other environmental regulations or permits? \*

No

Is the facility required to report one or more NPRI Part 4 substances (Criteria Air Contaminants)? \*

No

If 'Yes' to reporting for one or more Part 4 substances: Was the facility shut down for more than one week during the year? \*\*

### Operating Schedule - Days of the Week \*\*

| Mon                      | Tue                      | Wed                      | Thu                      | Fri                      | Sat                      | Sun                      |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

### Operating Schedule - Hours \*\*

| Usual Number of Operating Hours per day | Usual Daily Start Time (24h) (hh:mm) |
|---|--------------------------------------|
|   |                                      |

### Shutdown Periods \*\*

To report a shutdown period, click the "+" sign to the right side of the screen.

Empty

### General Comments for Facility

Comments

### Verify Facility Information

#### Company Information

#### Company Details

Company Legal Name

Business Number

#### Mailing Address

Delivery Mode

PO Box

Rural Route Number

Address Line 1

542 Kipling Avenue

City \*

Toronto

Province/Territory \*\*

Ontario

Postal Code: \*\*

M8Z5E3

Country \*

Canada

## Facility Information

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Facility \*

BRIMAC ANODIZING (1985) LIMITED

NAICS Code \*

332810

NPRI ID \*

632 (Assigned by Environment Canada)

## Facility Physical Address

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Address Line 1

542 Kipling Avenue

City

Toronto

Province/Territory

Ontario

Postal Code

M8Z5E3

Country

Canada

Additional Information

Land Survey Description

National Topographical Description

## Geographical Address

---

Latitude \*\*

43.61280

Longitude \*\*

-79.52360

UTM Zone \*\*

17

UTM Easting \*\*

619116.3

UTM Northing \*\*

4830041.34

## Facility Contacts

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### Contact Types

---

### Technical Contact

---

First Name: \*

Mark

Last Name: \*

Cotter

Position: \*

Principal

Telephone: \*

4164718774

Ext

Fax

Email: \*

mcotter@cotterassociates.ca

## Mailing Address

---

Delivery Mode

General Delivery

PO Box

Rural Route Number

Address Line 1

1214 Saginaw Crescent

City \*

Mississauga

Province/Territory \*\*

Ontario

Postal Code: \*\*

L5H3W6

Country \*

Canada

## Certifying Official

---

First Name: \*

Colin

Last Name: \*

Brighton

Position: \*

President

Telephone: \*

Ext

Fax

Email: \*

### Mailing Address

---

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City \*

Province/Territory \*\*

Postal Code: \*\*

Country \*

### Highest Ranking Employee

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First Name: \*

Last Name: \*

Position: \*

Telephone: \*

Ext

Fax

Email: \*

### Mailing Address

---

Delivery Mode

|                       |                      |
|-----------------------|----------------------|
| PO Box                | <input type="text"/> |
| Rural Route Number    | <input type="text"/> |
| Address Line 1        | 542 Kipling Avenue   |
| City *                | Toronto              |
| Province/Territory ** | Ontario              |
| Postal Code: **       | M8Z5E3               |
| Country *             | Canada               |

### Person who prepared the report

---

|               |                             |
|---------------|-----------------------------|
| First Name: * | Mark                        |
| Last Name: *  | Cotter                      |
| Position: *   | Principal                   |
| Telephone: *  | 4164718774                  |
| Ext           | <input type="text"/>        |
| Fax           | <input type="text"/>        |
| Email: *      | mcotter@cotterassociates.ca |

### Mailing Address

---

|                       |                       |
|-----------------------|-----------------------|
| Delivery Mode         | General Delivery      |
| PO Box                | <input type="text"/>  |
| Rural Route Number    | <input type="text"/>  |
| Address Line 1        | 1214 Saginaw Crescent |
| City *                | Mississauga           |
| Province/Territory ** | Ontario               |
| Postal Code: **       | L5H3W6                |



Country \*

## Contractor Contact

---

First Name: \*

Last Name: \*

Position: \*

Telephone: \*

Ext

Fax

Email: \*

## Mailing Address

---

Delivery Mode

PO Box

Rural Route Number

Address Line 1

City \*

Province/Territory \*\*

Postal Code: \*\*

Country \*

## Pollution Prevention

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### Pollution Prevention Plans

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Does the facility have a documented pollution prevention plan? \*

If 'Yes'

a) Please check all that apply

Plan was prepared or implemented for another government jurisdiction (i.e. other Federal government department, province, municipality). Specify name in comments field below.

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

No

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

Please summarize your pollution prevention plan and/or your pollution prevention activities (this information will be publicly available) \*\*

toxics reduction plan was prepared for sulphuric acid. A plan was created in 2014 for nitric acid and nitrates

## Pollution Prevention Activities

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

No

Selecting "Yes" will initiate the reporting of the specific pollution prevention activities that were completed in the current reporting year on the following screen.

## Substance Details

7664-93-9, Sulphuric acid

7664-93-9, Sulphuric acid

## Substance Reporting Status

### Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

No

Would you like to create an exit record for this ON MOE TRA substance? \*

No

Comments

**General Information about the Substance**

**Releases and Transfers of the Substance**

**Releases and Transfers of the Substance**

Was the substance released on-site? \*

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

**Disposals and Off-site Transfers for Recycling**

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? \*

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? \*

Was the substance transferred off-site for recycling? \*

**Nature of Activities \***

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

Otherwise Use of the Substance

**TRA Quantifications**

**Enters the facility (Use), Creation, Contained in Product for ON MOE TRA**

## Enters the facility (Use)

---

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

22.586

---

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

## Creation

---

The amount of substance that is created

Quantity (Tonnes) \*\*

0.000

---

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

## Contained in Product

---

The amount of substance contained in product

Quantity (Tonnes) \*\*

0.000

---

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

## Change in Method of Quantification

---

There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes \*\*

Select the reason for change: \*\*

Describe how the change impact tracking and quantification of the substance \*\*

### Incidents out of the normal course of events

- There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

### Significant Process Change

- There has been a significant process change at the facility during the previous calendar year.

### On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

### Enter the values for releases to air for the substance

#### Releases to Air

| Category                     | Basis Of Estimate         | Quantity (Tonnes) |
|------------------------------|---------------------------|-------------------|
| Stack or Point Releases      | O - Engineering Estimates | 0.023             |
| Storage or Handling Releases | NA - Not Applicable       |                   |
| Fugitive Releases            | NA - Not Applicable       |                   |
| Spills                       | NA - Not Applicable       |                   |
| Other Non-point Releases     | NA - Not Applicable       |                   |

Total - Releases to Air

### Enter the values for releases to water bodies

#### Releases to Water Bodies

| Category | Basis Of Estimate | Quantity (Tonnes) |
|----------|-------------------|-------------------|
|----------|-------------------|-------------------|

Direct Discharges

Spills

Leaks

Total - Releases to Water Bodies

Enter the values for releases to land (surface and underground)

Releases to Land (the nature of "Other" releases must be specified in the Comments)

| Category | Basis Of Estimate   | Quantity (Tonnes)    |
|----------|---------------------|----------------------|
| Spills   | NA - Not Applicable | <input type="text"/> |
| Leaks    | NA - Not Applicable | <input type="text"/> |
| Other    | NA - Not Applicable | <input type="text"/> |

Total - Releases to Land

Total Quantity Released

### Breakdown of Annual Releases

Distribute Equally

### Quarterly Breakdown \*

| Jan - Mar %                     | Apr - Jun %                     | Jul - Sep %                     | Oct - Dec %                     |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <input type="text" value="25"/> | <input type="text" value="25"/> | <input type="text" value="25"/> | <input type="text" value="25"/> |

Total %

## Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons \*

Changes in production levels

Comments ? (On-Site Releases) \*\*

## Disposals

### Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in production levels

Comments? (Disposals)

## Recycling

### Reasons Why Substance Was Recycled

Select one or more reasons. \*

Production Residues

## Off-site Transfers for Recycling

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

### Off-site Transfers

| Category                                      | Basis Of Estimate   | Quantity (Tonnes) |
|---|---------------------|-------------------|
| Energy Recovery                               | NA - Not Applicable |                   |
| Recovery of Solvents                          | NA - Not Applicable |                   |
| Recovery of Organic Substances (not solvents) | NA - Not Applicable |                   |
| Recovery of Metals and Metal Compounds        | NA - Not Applicable |                   |
| Recovery of Inorganic Materials (not metals)  | NA - Not Applicable |                   |

|  |                           |       |
|--|---------------------------|-------|
| Recovery of Acids and Bases              | O - Engineering Estimates | 2.425 |
| Recovery of Catalysts                    | NA - Not Applicable       |       |
| Recovery of Pollution Abatement Residues | NA - Not Applicable       |       |
| Refining of Re-use of Used Oil           | NA - Not Applicable       |       |
| Other                                    | NA - Not Applicable       |       |

Total Quantity Recycled

2.425

## Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

## Basis of Estimate for Off-sites

Enter breakdown values for

Recovery of Acids and Bases

Basis of Estimate

O - Engineering Estimates

Quantity (Tonnes)

2.425

## Off-site

| Off-Site Name         | Quantity (Tonnes) | Address                   |
|-----------------------|-------------------|---------------------------|
| Sodrox Chemicals Ltd. | 2.425             | RR #6, Guelph, ON, Canada |

Total Assigned (must equal total reported)



2.425

## Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons \*

Changes in production levels

Comments? (Recycling)

## Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Enters the facility (Use)

### Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change  | % Change |
|-------------------|-----------------------------------|--|---------|----------|
| 22.586            | 33.506                            | 2013   | -10.920 | -32.59   |

### Creation

### Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.000             | 0.000                             | 2013   | 0.000  |          |

### Contained in Product

### Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.000             | 0.000                             | 2013   | 0.000  |          |

### Reasons for Change

### Reasons for Change

Reason(s) for Change

Decrease in production levels

(please specify)

### Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Total Releases to Air

### Total Releases to Air

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.023             | 0.034                             | 2013   | -0.011 | -32.35   |

### Total Releases to Water

### Total Releases to Water

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

### Total Releases to Land

### Total Releases to Land

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

### Reasons for Change

### Reasons for Change

Reason(s) for Change

Decrease in production levels

(please specify)

## Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Total off-site Transfers for Recycling

### Total off-site Transfers for Recycling

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 2.425             | 1.366                             | 2013   | 1.059  | 77.53    |

### Reasons for Change

### Reasons for Change

Reason(s) for Change

(please specify)

(please specify): Substance is periodically transferred off-site for recycling. Change in amount simply reflects a change in the number of transfers from one calendar year to another.

### 7697-37-2, Nitric acid

7697-37-2, Nitric acid

## Substance Reporting Status

### Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

No

Would you like to create an exit record for this ON MOE TRA substance? \*

No

Comments

## General Information about the Substance

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### Releases and Transfers of the Substance

---

### Releases and Transfers of the Substance

---

Was the substance released on-site? \*

Yes

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

## Disposals and Off-site Transfers for Recycling

---

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? \*

No

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? \*

No

Was the substance transferred off-site for recycling? \*

Yes

## Nature of Activities \*

---

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

Process the Substance

### Otherwise Use of the Substance

As a physical or chemical processing aid

### TRA Quantifications

#### Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

#### Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

17.847

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

Yes

### Creation

The amount of substance that is created

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

No

### Contained in Product

The amount of substance contained in product

Quantity (Tonnes) \*\*

0

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

No

### Change in Method of Quantification

There has been a change in the method or combination of methods used to track and quantify the

substance during the previous calendar year

Describe the changes \*\*

Select the reason for change: \*\*

Describe how the change impact tracking and quantification of the substance \*\*

### Incidents out of the normal course of events

There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

### Significant Process Change

There has been a significant process change at the facility during the previous calendar year.

### On-site Releases

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

### Enter the values for releases to air for the substance

#### Releases to Air

| Category                     | Basis Of Estimate         | Quantity (Tonnes) |
|------------------------------|---------------------------|-------------------|
| Stack or Point Releases      | O - Engineering Estimates | 0.018             |
| Storage or Handling Releases | NA - Not Applicable       |                   |
| Fugitive Releases            | NA - Not Applicable       |                   |
| Spills                       | NA - Not Applicable       |                   |
| Other Non-point Releases     | NA - Not Applicable       |                   |

Total - Releases to Air

## Enter the values for releases to water bodies

### Releases to Water Bodies

| Category          | Basis Of Estimate   | Quantity (Tonnes) |
|-------------------|---------------------|-------------------|
| Direct Discharges | NA - Not Applicable |                   |
| Spills            | NA - Not Applicable |                   |
| Leaks             | NA - Not Applicable |                   |

Total - Releases to Water Bodies

## Enter the values for releases to land (surface and underground)

### Releases to Land (the nature of "Other" releases must be specified in the Comments)

| Category | Basis Of Estimate   | Quantity (Tonnes) |
|----------|---------------------|-------------------|
| Spills   | NA - Not Applicable |                   |
| Leaks    | NA - Not Applicable |                   |
| Other    | NA - Not Applicable |                   |

Total - Releases to Land

Total Quantity Released

### Breakdown of Annual Releases

Distribute Equally

### Quarterly Breakdown \*

| Jan - Mar % | Apr - Jun % | Jul - Sep % | Oct - Dec % |
|-------------|-------------|-------------|-------------|
| 25          | 25          | 25          | 25          |

Total %

100

### Reasons for Changes in Quantities Released from Previous Year

Select the applicable reason or reasons \*

Changes in production levels

Comments ? (On-Site Releases) \*\*

### Disposals

#### Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

No significant change (i.e. < 10%) or no change

Comments? (Disposals)

substance is not disposed but there is no option to state that

### Recycling

#### Reasons Why Substance Was Recycled

Select one or more reasons. \*

Production Residues

### Off-site Transfers for Recycling

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

#### Off-site Transfers

| Category                                      | Basis Of Estimate   | Quantity (Tonnes) |
|---|---------------------|-------------------|
| Energy Recovery                               | NA - Not Applicable |                   |
| Recovery of Solvents                          | NA - Not Applicable |                   |
| Recovery of Organic Substances (not solvents) | NA - Not Applicable |                   |
| Recovery of Metals and Metal Compounds        | NA - Not Applicable |                   |



|  |                     |  |
|--|---------------------|--|
| Recovery of Inorganic Materials (not metals) | NA - Not Applicable |  |
|--|---------------------|--|

|                             |                           |       |
|-----------------------------|---------------------------|-------|
| Recovery of Acids and Bases | O - Engineering Estimates | 0.728 |
|-----------------------------|---------------------------|-------|

|                       |                     |  |
|-----------------------|---------------------|--|
| Recovery of Catalysts | NA - Not Applicable |  |
|-----------------------|---------------------|--|

|  |                     |  |
|--|---------------------|--|
| Recovery of Pollution Abatement Residues | NA - Not Applicable |  |
|--|---------------------|--|

|                                |                     |  |
|--------------------------------|---------------------|--|
| Refining of Re-use of Used Oil | NA - Not Applicable |  |
|--------------------------------|---------------------|--|

|       |                     |  |
|-------|---------------------|--|
| Other | NA - Not Applicable |  |
|-------|---------------------|--|

Total Quantity Recycled

|       |
|-------|
| 0.728 |
|-------|

## Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

## Basis of Estimate for Off-sites

Enter breakdown values for

|                             |
|-----------------------------|
| Recovery of Acids and Bases |
|-----------------------------|

Basis of Estimate

|                           |
|---------------------------|
| O - Engineering Estimates |
|---------------------------|

Quantity (Tonnes)

|       |
|-------|
| 0.728 |
|-------|

## Off-site

| Off-Site Name | Quantity (Tonnes) | Address |
|---------------|-------------------|---------|
|---------------|-------------------|---------|

|                       |       |                           |
|-----------------------|-------|---------------------------|
| Sodrox Chemicals Ltd. | 0.728 | RR #6, Guelph, ON, Canada |
|-----------------------|-------|---------------------------|

Total Assigned (must equal total reported)

|       |
|-------|
| 0.728 |
|-------|

## Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons \*

|                              |
|------------------------------|
| Changes in production levels |
|------------------------------|

Comments? (Recycling)

|  |
|--|
|  |
|--|

## Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

### Enters the facility (Use)

### Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 17.847            | 12.113                            | 2013   | 5.734  | 47.34    |

### Creation

### Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

### Contained in Product

### Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

## Reasons for Change

## Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

## Comparison Report: On-site Releases

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

## Total Releases to Air

## Total Releases to Air

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.018             | 0.021                             | 2013   | -0.003 | -14.29   |

## Total Releases to Water

## Total Releases to Water

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

## Total Releases to Land

## Total Releases to Land

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

## Reasons for Change

## Reasons for Change

Reason(s) for Change

Decrease in production levels

(please specify)

## Comparison Report: Transfers off-site for Recycling

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report.

Therefore, you will be required to update all values and texts.

## Total off-site Transfers for Recycling

### Total off-site Transfers for Recycling

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0.728             | 0.410                             | 2013   | 0.318  | 77.56    |

## Reasons for Change

### Reasons for Change

Reason(s) for Change

Other

(please specify)

spent chemicals are periodically shipped off-site for recycling and recovery, and there may be slight variations year to year due to the timing of the shipments

(please specify): spent chemicals are periodically shipped off-site for recycling and recovery, and there may be slight variations year to year due to the timing of the shipments

## NA - 17, Nitrate ion in solution at pH >= 6.0

NA - 17, Nitrate ion in solution at pH >= 6.0

## Substance Reporting Status

### Applicable Programs

NPRI - Does this substance meet the criteria specified in the Canada Gazette notice? Selecting "No" indicates voluntary reporting of this substance to the NPRI. \*

Yes

ON MOE TRA - Does this substance meet the criteria specified in the Ontario Regulation 455/09 under the TRA? Selecting "No" indicates voluntary reporting of this substance to the ON MOE. \*

Yes

Is this considered the first report for this substance to the ON MOE TRA? (Please select "Help" for further clarification) \*

No

Would you like to create an exit record for this ON MOE TRA substance? \*

No

Comments

## General Information about the Substance

### Releases and Transfers of the Substance

### Releases and Transfers of the Substance

Was the substance released on-site? \*

No

If the substance was released on-site and the total quantity released was less than one tonne, select the check-box below

The substance will be reported as the sum of releases to all media (total of 1 tonne or less).

## Disposals and Off-site Transfers for Recycling

Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal? \*

Yes

Is the facility required to report on disposals of tailings and waste rock for the selected reporting period? \*

No

Was the substance transferred off-site for recycling? \*

No

## Nature of Activities \*

Indicate whether the substance was manufactured, processed, or otherwise used, by selecting the nature of such activities.

Manufacture the Substance

As a by-product

Process the Substance

Otherwise Use of the Substance

## TRA Quantifications

### Enters the facility (Use), Creation, Contained in Product for ON MOE TRA

#### Enters the facility (Use)

The amount of substance that enters a process as the substance itself or part of another substance, rolled up at the facility level.

Quantity (Tonnes) \*\*

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

#### Creation

The amount of substance that is created

Quantity (Tonnes) \*\*

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

#### Contained in Product

The amount of substance contained in product

Quantity (Tonnes) \*\*

Do you want to use ranges for public reporting? If "No" is selected you are indicating that any report to the public may contain the exact quantity provided. \*

## Change in Method of Quantification

---

- There has been a change in the method or combination of methods used to track and quantify the substance during the previous calendar year

Describe the changes \*\*

Select the reason for change: \*\*

Describe how the change impact tracking and quantification of the substance \*\*

## Incidents out of the normal course of events

---

- There have been incidents out of the normal course of events that occurred at the facility during the previous calendar year that affected the results of tracking/quantification of this substance.

Explain how tracking and quantifications were affected \*\*

## Significant Process Change

---

- There has been a significant process change at the facility during the previous calendar year.

## On-site Releases

---

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

## Reasons for Changes in Quantities Released from Previous Year

---

Select the applicable reason or reasons \*

No significant change (i.e. < 10%) or no change

Comments ? (On-Site Releases) \*\*

## Disposals

---

### Reasons Why Substance Was Disposed

---

Select one or more reasons

Pollution abatement residues

## On-site Disposal (excluding Tailings and Waste Rock)

---

Click "Edit" to enter your reportable values. In order to calculate totals, you must click the "Validate" button.

## On-site Disposal

| Category              | Basis Of Estimate   | Quantity (Tonnes) |
|-----------------------|---------------------|-------------------|
| Landfill              | NA - Not Applicable |                   |
| Land Treatment        | NA - Not Applicable |                   |
| Underground Injection | NA - Not Applicable |                   |

Total - On-site Disposals

## Off-site Disposal (excluding Tailings and Waste Rock)

### Off-site Disposal

| Category              | Basis Of Estimate   | Quantity (Tonnes) |
|-----------------------|---------------------|-------------------|
| Landfill              | NA - Not Applicable |                   |
| Land Treatment        | NA - Not Applicable |                   |
| Underground Injection | NA - Not Applicable |                   |
| Storage               | NA - Not Applicable |                   |

Total - Off-site Disposals

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

### Off-site Transfers for Treatment Prior to Final Disposal

| Category             | Basis Of Estimate   | Quantity (Tonnes) |
|----------------------|---------------------|-------------------|
| Physical Treatment   | NA - Not Applicable |                   |
| Chemical Treatment   | NA - Not Applicable |                   |
| Biological Treatment | NA - Not Applicable |                   |



|                        |                     |  |
|------------------------|---------------------|--|
| Incineration / Thermal | NA - Not Applicable |  |
|------------------------|---------------------|--|

|                                  |                  |        |
|----------------------------------|------------------|--------|
| Municipal Sewage Treatment Plant | C - Mass Balance | 16.263 |
|----------------------------------|------------------|--------|

Total - Treatment Prior to Final Disposal

|        |
|--------|
| 16.263 |
|--------|

Total Quantity Disposed (All Media)

|        |
|--------|
| 16.263 |
|--------|

## Assign Disposals / Transfers to Off-site Facilities

Choose the Basis of Estimate and enter the quantity transferred off-site for disposal in the first Quantity box. Then enter the quantity transferred to each off-site in its respective quantity field. If you need to add an off-site facility to the list, click the "+" sign to navigate to the off-site search screen. When you are finished entering all transfer quantities, click "Save and Return".

Assign Disposals / Transfers to Off-site Facilities

### Basis of Estimate for Off-sites

Enter breakdown values for

|                                  |
|----------------------------------|
| Municipal Sewage Treatment Plant |
|----------------------------------|

Basis of Estimate

|                  |
|------------------|
| C - Mass Balance |
|------------------|

Quantity (Tonnes)

|        |
|--------|
| 16.263 |
|--------|

### Off-site

| Off-Site Name   | Quantity (Tonnes) | Address                                |
|---|-------------------|--|
| Metropolitan Toronto Humber Bay Water Treatment Plant | 16.263            | 130 The Queensway, Toronto, ON, Canada |

Total Assigned (must equal total reported)

|        |
|--------|
| 16.263 |
|--------|

## Reasons for Changes in Quantities Disposed from Previous Year

Select the applicable reason or reasons.

Changes in production levels

Comments? (Disposals)

## Recycling

### Reasons for Changes in Quantities Recycled from Previous Year

Select the applicable reason or reasons \*

No significant change (i.e. < 10%) or no change

Comments? (Recycling)

### Comparison Report: Enters, Creation, Contained in Product

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

#### Enters the facility (Use)

#### Enters the facility (Use)

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

#### Creation

#### Creation

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 16.263            | 11.118                            | 2013   | 5.145  | 46.28    |

#### Contained in Product

#### Contained in Product

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
|-------------------|-----------------------------------|--|--------|----------|

|   |   |      |   |  |
|---|---|------|---|--|
| 0 | 0 | 2013 | 0 |  |
|---|---|------|---|--|

**Reasons for Change**

**Reasons for Change**

Reason(s) for Change

Increase in production levels

(please specify)

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

Ensure that "Last Reported Quantity" and the "Reporting Period of the last reported quantity" reflect current year's reporting to the last year's values. If you selected the pre-population function, the exact values in your previous year's report will be inserted into the current year's template, including the comparison report. Therefore, you will be required to update all values and texts.

**Total On-site Disposals**

**Total On-site Disposals**

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

**Total Off-site Disposals**

**Total Off-site Disposals**

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

**Total Off-site transfer for treatment Prior to Final Disposal**

**Total Off-site transfer for treatment Prior to Final Disposal**

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 16.263            | 11.118                            | 2013   | 5.145  | 46.28    |

## Total On-site Disposal of Tailings and Waste Rock

### Total On-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

## Total Off-site Disposal of Tailings and Waste Rock

### Total Off-site Disposal of Tailings and Waste Rock

| Quantity (Tonnes) | Last Reported Quantity (Tonnes) * | Reporting Period of Last Reported Quantity * | Change | % Change |
|-------------------|-----------------------------------|--|--------|----------|
| 0                 | 0                                 | 2013   | 0      |          |

## Reasons for Change

### Reasons for Change

Reason(s) for Change

Increase in production levels

(please specify)

## Post Plan Substance Details

### 7664-93-9, Sulphuric acid

7664-93-9, Sulphuric acid

## Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

### Objectives

Objectives in plan: \*

none

## Use Targets

What is the targeted reduction in use of the toxic substance at the facility? \*

No quantity target

Quantity

Unit

or

What is the targeted timeframe for this reduction? \*

No timeline target

years

or

Description of Target

### Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

No quantity target

Quantity

Unit

or

What is the targeted timeframe for this reduction? \*

No timeline target

years

or

Description of targets

### Actions

#### Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? \*

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: \*\*

Provide a public summary of the description of the additional action taken: \*\*

## Reductions due to additional actions taken \*\*

---

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount  tonnes

The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in the substance <strong>recycled off-site</strong> at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

## Amendments

### Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? \*

No

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 \*\*

## 7697-37-2, Nitric acid

7697-37-2, Nitric acid

## Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

### Objectives

Objectives in plan: \*

Brimac anodizing is committed to continuing to reduce the environmental impact of its manufacturing operations. Management will continue to explore options to reduce the usage of toxic substances while providing innovative solutions to our customers.

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility? \*

**No quantity target**

**Quantity**

**Unit**

or

What is the targeted timeframe for this reduction? \*

No timeline target years

or

Description of Target

Brimac anodizing is committed to continuing to reduce the environmental impact of its manufacturing operations. Management will continue to explore options to reduce the usage of toxic substances while providing innovative solutions to our customers.

### Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

No quantity target Quantity Unit

or

What is the targeted timeframe for this reduction? \*

No timeline target years

or

Description of targets

### Actions

#### Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? \*

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: \*\*

Provide a public summary of the description of the additional action taken: \*\*



## Reductions due to additional actions taken \*\*

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount  tonnes

The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

No Amount  tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

## Amendments

### Amendments

Were any amendments made to the toxic substance reduction plan during the reporting period? \*

Description any amendments that were made to the toxic substance reduction plan during the reporting period \*\*

Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period \*\*

## NA - 17, Nitrate ion in solution at pH >= 6.0

NA - 17, Nitrate ion in solution at pH >= 6.0

## Objectives, Description and Targets

This information is read-only and is pulled directly from your most recent submitted Plan Summary. To make changes to the information on this screen, please update your plan summary and re-submit. For more details about updating the plan summary, please select "Help".

### Objectives

Objectives in plan: \*

### Use Targets

What is the targeted reduction in use of the toxic substance at the facility? \*

**No quantity target**

**Quantity**

**Unit**

or

What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**

or

Description of Target

## Creation Targets

What is the targeted reduction in creation of the toxic substance at the facility? \*

**No quantity target**

**Quantity**

**Unit**

or



What is the targeted timeframe for this reduction? \*

**No timeline target**

**years**

or

Description of targets

## Actions

### Additional Actions

Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance? \*

No

Describe any additional actions that were taken during the reporting period to achieve the plan's objectives: \*\*

Provide a public summary of the description of the additional action taken: \*\*

### Reductions due to additional actions taken \*\*

The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in the substance **contained in product** at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in **release to air** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in **release to water** of the substance at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in **release to land** of the substance at the facility during the reporting period that resulted due to additional actions.

No Amount

tonnes

The amount of reduction in the substance **disposed on-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in the substance **disposed off-site** (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

The amount of reduction in the substance **recycled off-site** at the facility during the reporting period that resulted due to the additional actions.

No Amount

tonnes

## Amendments

---

## Amendments

---

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 \*\*

As of June 1, 2014, I, Colin Brighton, certify that I have read the toxic substance reduction plans for sulphuric acid, nitric acid and nitrates and am familiar with their contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.



Colin Brighton, President

June 1, 2014

Date