



National Pollutant Release Inventory (NPRI) and



Canada

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Report Preview

Report Details

Report Year

2015

Report Type:

NPRI,ON MOE TRA

Report Status:

Submitted

Modified Date/Time:

31/05/2016 1:23 PM

Company and Facility Details

Company Name:

Forterra Brick

Business Number:

881819189

Mailing Address:

Delivery Mode: GeneralDelivery
Address Line 1: 5155 Dundas Street
City, Province/Territory, Postal Code: Burlington Ontario L7R3Y2
Country: Canada

Facility Name:

Forterra Brick - Aldershot

NAICS Code:

327990

NPRI ID:

7005

Physical Address:

Address Line 1: 0 - 1570 Yorkton Court
City, Province/Territory, Postal Code: Aldershot Ontario L7P5B7
Country: Canada
UTM Zone: 17
UTM Easting: 593084
UTM Northing: 4797567

Parent Companies

Company Name:

Hanson Brick America

Business Number:

881819189

Mailing Address:

Delivery Mode: GeneralDelivery
Address Line 1: 555 - 15720 Delaney Drive
City, Province/Territory, Postal Code: Charlotte NorthCarolina 28277
Country: UnitedStates

Contacts Details

Contact Type

Technical Contact, Certifying Official, Person who prepared the report, Person who coordinated the preparation of the Toxics Reduction Plan

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Jack Hewitt

Position:

Projects and Environmental Manager

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Contact Type

Contractor Contact

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Erik Martinez

Position:

Environmental Consultant

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Independent contractor/consultant company name:

GHD Limited

Contact Type

Highest Ranking Employee

Name:

Shane Egan

Position:

VP Production

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Email:

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Mailing Address:

Address Line 1: 5155 Dundas Street
City, Province/Territory, Postal Code: Burlington Ontario L7R 3Y2
Country: Canada

General Information

Number of employees:

80

Activities for Which the 20,000-Hour Employee Threshold Does Not Apply:

None of the above

Activities Relevant to Reporting Dioxins, Furans and Hexacholorobenzene:

None of the above

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

Wood preservation using creosote: No

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

No

Is the facility controlled by another Canadian company or companies:

No

Did the facility report under other environmental regulations or permits:

No

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

Yes

Was the facility shut down for more than one week during the year:

Yes

Operating Schedule - Days of the Week:

Mon, Tue, Wed, Thu, Fri, Sat, Sun

Usual Number of Operating Hours per day:

24

Usual Daily Start Time (24h) (hh:mm):

00:00

Shutdown Periods:

From 2015-03-14 To 2015-05-18

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
7789-75-5	Calcium fluoride	N/A	N/A	82.7600	N/A	tonnes
630-08-0	Carbon monoxide	43.8600	N/A	N/A	N/A	tonnes
NA - 09	Manganese (and its compounds)	0.0010	N/A	N/A	N/A	tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	24.2700	N/A	N/A	N/A	tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	21.4650	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	2.3610	N/A	N/A	N/A	tonnes
NA - M08	Total Particulate Matter	25.2500	N/A	N/A	N/A	tonnes

Applicable Programs

CAS RN	Substance Name	NPRI	ON MOE TRA	ON MOE Reg 127/01	First report for this substance to the ON MOE TRA
7789-75-5	Calcium fluoride	Yes	Yes		No
630-08-0	Carbon monoxide	Yes	Yes		No
NA - 09	Manganese (and its compounds)	No	No		No
11104-93-1	Nitrogen oxides (expressed as NO2)	Yes	Yes		No
NA - M09	PM10 - Particulate Matter <= 10 Microns	Yes	Yes		No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Yes	Yes		No
NA - M08	Total Particulate Matter	Yes	Yes		No

TRA Exit Record

CAS RN	Substance Name	Circumstance(s) that apply	Describe the circumstances that lead to the criteria no longer being met	Describe the information and any quantifications relied upon for making the determination
NA - 09	Manganese (and its compounds)	The substance did not meet the criteria to provide information to NPRI	Decreased use of manganese	Material tracking and composition of manganese in the product

General Information about the Substance - Releases and Transfers of the Substance

CAS RN	Substance Name	Was the substance released on-site	The substance will be reported as the sum of releases to all media (total of 1 tonne or less)	1 tonne or more of a Part 5 Substance (Speciated VOC) was released to air
7789-75-5	Calcium fluoride	No	No	No
NA - 09	Manganese (and its compounds)	Yes	Yes	No

General Information about the Substance - Disposals and Off-site Transfers for Recycling

CAS RN	Substance Name	Was the substance disposed of (on-site or off-site), or transferred for treatment prior to final disposal	Is the facility required to report on disposals of tailings and waste rock for the selected reporting period	Was the substance transferred off-site for recycling
7789-75-5	Calcium fluoride	Yes	No	No
NA - 09	Manganese (and its compounds)	No	No	No

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
7789-75-5	Calcium fluoride	As a by-product		
NA - 09	Manganese (and its compounds)		As a formulation component	

Substances added to/removed from the report

CAS RN	Substance Name	Added/Removed	Comment
7647-01-0	Hydrochloric acid	Removed	Did not meet reporting criteria

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
7789-75-5	Calcium fluoride	Use	0 tonnes	Yes
7789-75-5	Calcium fluoride	Creation	82.76 tonnes	Yes
7789-75-5	Calcium fluoride	Contained in Product	0 tonnes	Yes
630-08-0	Carbon monoxide	Use	0 tonnes	Yes
630-08-0	Carbon monoxide	Creation	43.86 tonnes	Yes
630-08-0	Carbon monoxide	Contained in Product		
11104-93-1	Nitrogen oxides (expressed as NO2)	Use	0 tonnes	Yes
11104-93-1	Nitrogen oxides (expressed as NO2)	Creation	24.27 tonnes	Yes
11104-93-1	Nitrogen oxides (expressed as NO2)	Contained in Product		
NA - M09	PM10 - Particulate Matter <= 10 Microns	Use	0 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Creation	21.465 tonnes	Yes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Contained in Product		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Use	0 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Creation	2.361 tonnes	Yes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Contained in Product		
NA - M08	Total Particulate Matter	Use	0 tonnes	Yes

CAS RN	Substance Name	Use, Creation, Contained in Product	Quantity	Use ranges for public reporting
NA - M08	Total Particulate Matter	Creation	25.25 tonnes	Yes
NA - M08	Total Particulate Matter	Contained in Product		

TRA Quantifications - Others

CAS RN	Substance Name	Change in Method of Quantification	Reasons for Change	Description of how the change impact tracking and quantification of the substance	Description of how an incident(s) affected quantifications	Significant Process Change
7789-75-5	Calcium fluoride					No
630-08-0	Carbon monoxide					No
11104-93-1	Nitrogen oxides (expressed as NO2)					No
NA - M09	PM10 - Particulate Matter <= 10 Microns					No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns					No
NA - M08	Total Particulate Matter					No

On-site Releases - Releases to air

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
630-08-0	Carbon monoxide	Stack or Point Releases	E1 - Site Specific Emission Factors		43.86 tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	Stack or Point Releases	E1 - Site Specific Emission Factors		24.27 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	Stack or Point Releases	E1 - Site Specific Emission Factors		21.465 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Stack or Point Releases	E1 - Site Specific Emission Factors		2.361 tonnes
NA - M08	Total Particulate Matter	Stack or Point Releases	E1 - Site Specific Emission Factors		25.25 tonnes

On-site Releases - Releases to air - Total

CAS RN	Substance Name	Total - Releases to Air
630-08-0	Carbon monoxide	43.86 tonnes
11104-93-1	Nitrogen oxides (expressed as NO2)	24.27 tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	21.465 tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	2.361 tonnes
NA - M08	Total Particulate Matter	25.25 tonnes

Total Quantity Released (All Media)

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 09	Manganese (and its compounds)	Total Quantity Released	C - Mass Balance		0.0010 tonnes

On-site Releases - Total

On-site Releases - Monthly Breakdown of Annual Releases

CAS RN	Substance Name	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
630-08-0	Carbon monoxide	10.23	9.24	5.61	0	4.3	9.9	10.23	10.23	9.9	10.23	9.9	10.23
11104-93-1	Nitrogen oxides (expressed as NO2)	10.23	9.24	5.61	0	4.3	9.9	10.23	10.23	9.9	10.23	9.9	10.23
NA - M09	PM10 - Particulate Matter <= 10 Microns	10.23	9.24	5.61	0	4.3	9.9	10.23	10.23	9.9	10.23	9.9	10.23
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	10.23	9.24	5.61	0	4.3	9.9	10.23	10.23	9.9	10.23	9.9	10.23
NA - M08	Total Particulate Matter	10.23	9.24	5.61	0	4.3	9.9	10.23	10.23	9.9	10.23	9.9	10.23

On-site Releases - Reasons for Changes in Quantities Released from Previous Year

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
11104-93-1	Nitrogen oxides (expressed as NO2)	No significant change (i.e. < 10%) or no change	

CAS RN	Substance Name	Reasons for Changes in Quantities from Previous Year	Comments
630-08-0	Carbon monoxide	No significant change (i.e. < 10%) or no change	
7789-75-5	Calcium fluoride	No significant change (i.e. < 10%) or no change	
NA - 09	Manganese (and its compounds)	Changes in production levels	
NA - M08	Total Particulate Matter	No significant change (i.e. < 10%) or no change	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No significant change (i.e. < 10%) or no change	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No significant change (i.e. < 10%) or no change	

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

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
7789-75-5	Calcium fluoride	Landfill	E1 - Site Specific Emission Factors		82.76 tonnes

Disposals - Off-site Disposal (excluding Tailings and Waste Rock) - Total

CAS RN	Substance Name	Total - Off-site Disposals
7789-75-5	Calcium fluoride	82.76 tonnes

Disposals - Off-site Disposal (excluding Tailings and Waste Rock) - By Facilities

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
7789-75-5	Calcium fluoride	Landfill	Capital Environmental Resources Ltd.	306 Lake Ave. N., Hamilton, ON, Canada	82.76 tonnes

Disposals - Total Quantity Disposed (All Media)

CAS RN	Substance Name	Total Quantity Disposed (All Media)
7789-75-5	Calcium fluoride	82.76 tonnes

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities from Previous Year	Comments
7789-75-5	Calcium fluoride	Pollution abatement residues	No significant change (i.e. < 10%) or no change	
NA - 09	Manganese (and its compounds)		No significant change (i.e. < 10%) or no change	

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
7789-75-5	Calcium fluoride		No significant change (i.e. < 10%) or no change	
NA - 09	Manganese (and its compounds)		No significant change (i.e. < 10%) or no change	

Comparison Report - Enters, Creation, Contained in Product

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7789-75-5	Calcium fluoride	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
7789-75-5	Calcium fluoride	No	Creation	82.76 tonnes	80.58 tonnes	2014	2.18	2.71
7789-75-5	Calcium fluoride	No	Contained in Product	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Creation	43.86 tonnes	42.71 tonnes	2014	1.15	2.69
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Creation	24.27 tonnes	23.63 tonnes	2014	0.64	2.71
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Creation	21.465 tonnes	20.900 tonnes	2014	0.565	2.70
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Creation	2.361 tonnes	2.299 tonnes	2014	0.062	2.70
NA - M08	Total Particulate Matter	No	Enters the facility (Use)	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Creation	25.25 tonnes	24.59 tonnes	2014	0.66	2.68

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7789-75-5	Calcium fluoride	No reasons - quantities approximately the same	
630-08-0	Carbon monoxide	No reasons - quantities approximately the same	
11104-93-1	Nitrogen oxides (expressed as NO2)	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No reasons - quantities approximately the same	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No reasons - quantities approximately the same	
NA - M08	Total Particulate Matter	No reasons - quantities approximately the same	

Comparison Report - On-site Releases

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
630-08-0	Carbon monoxide	No	Total Releases to Air	43.86 tonnes	42.71 tonnes	2014	1.15	2.69
630-08-0	Carbon monoxide	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
630-08-0	Carbon monoxide	No	Total Releases to All Media	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Air	24.27 tonnes	23.63 tonnes	2014	0.64	2.71
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
11104-93-1	Nitrogen oxides (expressed as NO2)	No	Total Releases to All Media	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Air	21.465 tonnes	20.900 tonnes	2014	0.565	2.70
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Air	2.361 tonnes	2.299 tonnes	2014	0.062	2.70
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	Total Releases to All Media	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Total Releases to Air	25.25 tonnes	24.59 tonnes	2014	0.66	2.68
NA - M08	Total Particulate Matter	No	Total Releases to Water	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Total Releases to Land	0 tonnes	0 tonnes	2014	0	
NA - M08	Total Particulate Matter	No	Total Releases to All Media	0 tonnes	0 tonnes	2014	0	

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
630-08-0	Carbon monoxide	No reasons - quantities approximately the same	
11104-93-1	Nitrogen oxides (expressed as NO2)	No reasons - quantities approximately the same	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No reasons - quantities approximately the same	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No reasons - quantities approximately the same	
NA - M08	Total Particulate Matter	No reasons - quantities approximately the same	

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

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7789-75-5	Calcium fluoride	No	Total On-site Disposals	0 tonnes	0 tonnes	2014	0	
7789-75-5	Calcium fluoride	No	Total Off-site Disposals	82.76 tonnes	80.58 tonnes	2014	2.18	2.71

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
7789-75-5	Calcium fluoride	No	Total Off-site transfer for treatment Prior to Final Disposal	0 tonnes	0 tonnes	2014	0	
7789-75-5	Calcium fluoride	No	Total On-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2014	0	
7789-75-5	Calcium fluoride	No	Total Off-site Disposal of Tailings and Waste Rock	0 tonnes	0 tonnes	2014	0	

Comparison Report - Disposals On-site, Off-site and Tailings and Waste Rock - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
7789-75-5	Calcium fluoride	No reasons - quantities approximately the same	

Pollution Prevention

Does the facility have a documented pollution prevention plan?	No
Did the facility complete any pollution prevention activities in the current NPRI reporting year	No

Progress on TRA Plan - Objectives

CAS RN	Substance Name	Objectives
7789-75-5	Calcium fluoride	Hanson Brick Ltd. will continue to explore options that reduce its emissions of calcium fluoride.
630-08-0	Carbon monoxide	Hanson Brick Ltd. Produces fired clay brick primarily for the Greater Toronto Area using locally sourced raw materials. Carbon Monoxide is created in the manufacturing process. Hanson Brick Ltd. will continue to control the emissions on a unit production basis and examine means to reduce emissions in the future.
11104-93-1	Nitrogen oxides (expressed as NO2)	Hanson Brick Ltd. Produces fired clay brick primarily for the Greater Toronto Area using locally sourced raw materials. Nitrous Oxides are created in the manufacturing process. Hanson Brick Ltd. will continue to control the emissions on a unit production basis and examine means to reduce emissions in the future.
NA - M09	PM10 - Particulate Matter <= 10 Microns	Hanson Brick Ltd. will continue to operate the plant in full compliance with Environmental Standards and Certificate of Approval (C of A) 8-3729-98-996.We will reduce the emissions of PM10 by more frequent and thorough inspection of our dust collectors and by installation of an electronic particulate monitor in one of the dust collectors.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Hanson Brick Ltd. will continue to operate the plant in full compliance with Environmental Standards and Certificate of Approval (C of A) 8-3729-98-996.We will reduce the emissions of PM2.5 by more frequent and thorough inspection of our dust collectors and by installation of an electronic particulate monitor in one of the dust collectors.
NA - M08	Total Particulate Matter	Hanson Brick Ltd. will continue to operate the plant in full compliance with Environmental Standards and Certificate of Approval (C of A) 8-3729-98-996.We will reduce the emissions of particulate matter by more frequent and thorough inspection of our dust collectors and by installation of an electronic particulate monitor in one of the dust collectors.

Progress on TRA Plan - Use Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
7789-75-5	Calcium fluoride	No quantity target	No timeline target	
630-08-0	Carbon monoxide	No quantity target	No timeline target	
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	
NA - M09	PM10 - Particulate Matter <= 10 Microns	No quantity target	No timeline target	
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No quantity target	No timeline target	
NA - M08	Total Particulate Matter	No quantity target	No timeline target	

Progress on TRA Plan - Creation Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
7789-75-5	Calcium fluoride	No quantity target	No timeline target	Hanson Brick will continue the monitoring of the facility as required in our operations permits and will examine opportunities to reduce emissions of calcium fluoride.
630-08-0	Carbon monoxide	No quantity target	No timeline target	Hanson Brick Ltd. will explore opportunities to reduce CO.
11104-93-1	Nitrogen oxides (expressed as NO2)	No quantity target	No timeline target	Hanson Brick Ltd. will explore opportunities to reduce NOx.
NA - M09	PM10 - Particulate Matter <= 10 Microns	39.02 kg	2	Hanson Brick will improve the capture of all PM10 by increased inspection and implementation of continuous on-line monitoring of a dust collector prior to the year end of 2015.
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	4.29 kg	2	Hanson Brick will improve the capture of all PM2.5 by increased inspection and implementation of continuous on-line monitoring of a dust collector prior to the year end of 2015
NA - M08	Total Particulate Matter	45.9 kg	2	Hanson Brick will improve the capture of all particulate matter by increased inspection and implementation of continuous on-line monitoring of a dust collector prior to the year end of 2015

Progress on TRA Plan - Toxic Reduction Options Implemented

CAS RN	Substance Name	Activity	Steps that were taken in the reporting period to implement the toxic reduction option	Public summary of the description of the steps	Comparison of the steps that were described in the plan for implementation with the actual steps taken during the reporting period	Public summary of the comparison of the steps
7789-75-5	Calcium fluoride	Substituted materials	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015
NA - M09	PM10 - Particulate Matter <= 10 Microns	Implemented inspection or monitoring program of potential spill or leak sources	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Implemented inspection or monitoring program of potential spill or leak sources	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015
NA - M08	Total Particulate Matter	Implemented inspection or monitoring program of potential spill or leak sources	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015	No steps taken during 2015

Progress on TRA Plan - Reductions due to Options Implemented - Materials or feedstock substitution

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Substituted materials	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount

Progress on TRA Plan - Reductions due to Options Implemented - Spill or leak prevention

CAS RN	Substance Name	Activity	Reductions due to Options Implemented	Quantity
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the steps described:	No Amount
7789-75-5	Calcium fluoride	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the steps described:	No Amount
NA - M09	PM10 - Particulate Matter <= 10 Microns	Implemented inspection or monitoring program of potential spill or leak sources	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the steps described:	No Amount

CAS RN	Substance Name	Were there any additional actions outside the plan taken during the reporting period to reduce the use and/or creation of the substance?	Describe any additional actions that were taken during the reporting period to achieve the plan's objectives	Provide a public summary of the description of the additional action taken
7789-75-5	Calcium fluoride	No		
630-08-0	Carbon monoxide	No		
11104-93-1	Nitrogen oxides (expressed as NO2)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No		
NA - M08	Total Particulate Matter	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
7789-75-5	Calcium fluoride	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
7789-75-5	Calcium fluoride	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
7789-75-5	Calcium fluoride	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
7789-75-5	Calcium fluoride	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.	
7789-75-5	Calcium fluoride	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.	
7789-75-5	Calcium fluoride	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
7789-75-5	Calcium fluoride	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.	
7789-75-5	Calcium fluoride	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.	
7789-75-5	Calcium fluoride	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
630-08-0	Carbon monoxide	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.	
630-08-0	Carbon monoxide	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.	
630-08-0	Carbon monoxide	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
630-08-0	Carbon monoxide	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.	
630-08-0	Carbon monoxide	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.	
630-08-0	Carbon monoxide	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	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.	
11104-93-1	Nitrogen oxides (expressed as NO2)	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.	
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.	
11104-93-1	Nitrogen oxides (expressed as NO2)	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.	
11104-93-1	Nitrogen oxides (expressed as NO2)	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.	

CAS RN	Substance Name	Reductions due to additional actions taken		Quantity
11104-93-1	Nitrogen oxides (expressed as NO2)	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.		
NA - M09	PM10 - Particulate Matter <= 10 Microns	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.		
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in use of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in creation of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in the substance contained in product at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in release to air of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in release to water of the substance at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in release to land of the substance at the facility during the reporting period that resulted due to additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in the substance disposed on-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in the substance disposed off-site (including tailings and waste rocks) at the facility during the reporting period that resulted due to the additional actions.		
NA - M08	Total Particulate Matter	The amount of reduction in the substance recycled off-site at the facility during the reporting period that resulted due to the additional actions.		

Progress on TRA Plan - Amendments

CAS RN	Substance Name	Were any amendments made to the toxic substance reduction plan during the reporting period	Description any amendments that were made to the toxic substance reduction plan during the reporting period	Provide a public summary of the description of any amendments that were made to the toxic substance reduction plan during the reporting period
7789-75-5	Calcium fluoride	No		
630-08-0	Carbon monoxide	No		
11104-93-1	Nitrogen oxides (expressed as NO2)	No		
NA - M09	PM10 - Particulate Matter <= 10 Microns	No		
	PM2.5 -			

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
NA - M10	Particulate Matter <= 2.5 Microns	No		
NA - M08	Total Particulate Matter	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

Forterra Brick

Certifying Official (or authorized delegate)

Jack Hewitt

Report Submitted by

Shane Egan

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 31/05/2016, I, Shane Egan, 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
7789-75-5	Calcium fluoride
630-08-0	Carbon monoxide
11104-93-1	Nitrogen oxides (expressed as NO2)
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns
NA - M08	Total Particulate Matter

Exit Record Certification Statement

As of 31/05/2016, I Shane Egan, certify that I have read the records created for the purposes of section 11.2 of Ontario Regulation 455/09 (General) made under the Toxics Reductions Act, (2009) in respect of the use and creation of the toxic substances refered to below at Forterra Brick - Aldershot and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN	Substance Name
NA - 09	Manganese (and its compounds)

Company Name

Forterra Brick

Highest Ranking Employee

Shane Egan

Report Submitted by

Shane Egan

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
2015	31/05/2016	Forterra Brick - Aldershot	Ontario	Aldershot	NPRI,ON MOE TRA

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: 3.11.4



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