Memorandum

To:	Ian Wood	Ref. No.:	047955
From:	Dana Lauder/Zach Zehr/cb/11	Date:	May 25, 2016

Re: Documentation Report for 2015 Reporting Year National Pollutant Release Inventory and Greenhouse Gas Reporting

This memorandum has been prepared to provide documentation for the O. Reg. 127/01, National Pollutant Release Inventory (NPRI), Toxic Reduction Act (TRA) and Greenhouse Gas reporting for 2015 for the Martinrea (Martinrea) Ridgetown facility (Facility).

The memorandum is summarized in the following sections:

1. NAICS Code Classification

Martinrea manufactures automotive parts using stamping and welding processes, and as such is classified by the North American Industrial Classification System (NAICS) as Code 336370 – Motor Vehicle Metal Stamping. Since this code is not listed in *Table 1* of Reg. 127, Martinrea is not applicable for reporting under Reg. 127.

2. NPRI Applicability

The Facility will be required to calculate and report the emissions of substances listed in Table 1 annually only if both of the following criteria are met:

- The equivalent of 20,000 hours of labour or more annually (equal to 10 full time employees).

GHD Limited
651 Colby Drive Waterloo Ontario N2V 1C2 Canada
T 519 884 0510 **F** 519 884 0525 **W** www.ghd.com

- Any substance in NPRI has MPO quantities that are equal to or greater than the corresponding MPO threshold identified in NPRI.

Since the Facility employs 260 people, the first criterion is met and the Facility did use compounds listed on NPRI during the 2015 reporting year. Therefore, NPRI MPO criteria were assessed, as summarized in Table 1.

3. Manufacture, Process, or Otherwise Use Quantities Determinations

GHD has evaluated the 2015 material usage information provided by Martinrea. The quantities of each material were sorted by the Chemical Abstract Service Number (CAS No.) and summed to determine the MPO quantity of each material used at the facility.

The MPO quantities were compared with the NPRI MPO thresholds to determine reporting status, as summarized on Table 1.

The total quantities of zinc, manganese, and chromium exceed the corresponding MPO thresholds and are therefore reportable.

4. NPRI CAC Air Emission Release Estimates

The particulate matter emissions estimated from welding operations were based on the annual weld rod usage provided by Martinrea and USEPA AP-42 emission factors for shielded metal arc welding (SMAW). A summary of the air release estimates are provided in Table 2.

The PM-10 emissions from the operation of the cooling tower are calculated in Table 3.

Martinrea provided the monthly natural gas, propane usage rates in order to determine the combustion air release estimates of CACs based on USEPA AP-42 emissions factors.

In Table 4 USEPA AP-42 emission factors were used to find the annual emission rates of air releases.

5. Environment Canada GHG Summary

Federally, Under Section 46 of the *Canadian Environmental Protection Act, 1999* (CEPA 1999), *Notice with respect to reporting of greenhouse gases (GHGs) for 2015,* Facilities must report their GHG emissions to Environment Canada if they exceed 50,000 tonnes carbon dioxide equivalent (CO_2e).

The federal reporting requirements and sources to include in the reporting are described in the Canada Gazette. Martinrea does not exceed the reporting threshold and therefore is not required to report GHG emissions to Environment Canada. The applicability threshold value calculated from the Federal GHG sources are presented in Table 6A.

6. Ontario Regulation 452/09 GHG Reporting

Under the new Ontario Regulation 452/09 Greenhouse Gas Emissions Reporting (O. Reg. 452/09), Facilities are required to report in June 2016 for the 2015 calendar year emissions if they exceed 25,000 tonnes of carbon dioxide equivalent (CO2e). The regulation sets out sources that must be included in the threshold determination as well as reporting requirements.

The Martinrea sources included in O. Reg. 452/09 are stationary combustion sources. Martinrea sources do not exceed the reportable threshold and therefore the Facility is not required to report GHG emissions to the Ministry of the Environment. The applicability threshold value calculated from the GHG sources are presented in Table 6B.

7. Toxics Reduction Act Reporting

New legislation introduced by the MOECC became effective on January 1, 2011. The TRA and Regulation 455/09 applies to manufacturing (NAICS 31-33) and select mining/processing facilities that employ more than an equivalent of 10 full-time persons, and who use or create acetone or materials regulated by the NPRI.

Martinrea NAICS Code is 336370 – Motor Vehicle Metal Stamping and the facility was NPRI Reportable for the 2015 reporting year; therefore, Martinrea facility is currently applicable under the Act.

The monitoring period was January 1, 2015 to December 31, 2015 with reporting due June 1, 2016. The reporting thresholds for the TRA are harmonized with the NPRI reporting thresholds meaning that Martinrea is reportable for manganese, chromium, and zinc under TRA. The Facility is required to report the amount of each reportable compounds that are created, used, and contained in final product. The TRA reported values are summarized on Table 8.

The TRA metals reporting and TRA reportable quantities are summarized on Table 7, respectively.

Martinrea previously prepared Toxic Substance Reduction Plans for manganese, zinc, and chromium.

8. Section A Administrative Information

The administrative information provided by Martinrea is summarized in Table 9.

9. Conclusions

Martinrea is reportable under NPRI for manganese, chromium, and zinc as summarized in Table 7. Martinrea is also reportable under TRA for manganese, chromium and zinc.

Martinrea is not reportable federally or provincially for GHG emissions or to Reg. 127 for acetone.

Should you have any questions on the above, please do not hesitate to contact us.

Table 1

NPRI MPO Thresholds and Air Release Estimates
Martinrea
Ridgetown, Ontario

CAS No.	Compounds	Compound Type	Product Name	Usage (kg/yr)	wt. %	MPO Quantity (kg/yr)	Estimated Emission Quantity [2] (kg/yr)	Recycled Quantity (kg/yr)
7440-02-0	Nickel	NPRI	Cold Rolled Steel	12,067,554	deminimus	--	(1)	--
7439-96-5	Manganese	NPRI			1.65	199,115	(1)	70,688
7440-47-3	Chromium	NPRI			1.1	132,743	(1)	47,125
7440-02-0	Nickel	NPRI	Hot Rolled Steel	2,280,849	deminimus	--	(1)	--
7439-96-5	Manganese	NPRI			1.65	37,634	(1)	13,361
7440-47-3	Chromium	NPRI			1.1	25,089	(1)	8,907
7439-96-5	Manganese	NPRI	Lincolnweld L-50	0	10	0	0.00	NA
7440-50-8	Copper	NPRI			deminimus	--	--	NA
7440-02-0	Nickel	NPRI	Copper Electrodes	95.4	2.2	2	2.10	NA
7440-41-7	Beryllium	NPRI			2	2	1.91	NA
7440-47-3	Chromium (Hexavalent)	NPRI			1.2	1.1	1.14	NA
7440-48-4	Cobalt	NPRI			deminimus	--	-	NA
7440-50-8	Copper	NPRI			100	95	95.35	NA
7439-96-5	Manganese	NPRI	Zinc Coated Steel	12,323,473	1.65	203,337	(1)	72,187
7440-02-0	Nickel	NPRI	(Galvanized and Galvanneal)		deminimus	--	(1)	--
7440-47-3	Chromium	NPRI			1.1	135,558	(1)	48,125
7440-66-6	Zinc	NPRI			15	1,830,036	(1)	649,685

		MPO Threshold (kg/yr)	NPRI Reportable? (Yes/No)		Air Releases (kg/yr)		Recycled quantity (kg/yr)
Total Zinc Processed	1,830,036	10,000	Yes	Total Zinc Released	0	Total Zinc Recycled	649,685
Total Manganese Processed	440,086	10,000	Yes	Total Manganese Released	0	Total Manganese Recycled	156,236
Total Nickel Processed	2	10,000	No	Total Nickel Released	-	Total Nickel Recycled	-
Total Chromium Processed	293,391	10,000	Yes	Total Chromium Released	0.00	Total Chromium Recycled	104,157
Total Hexavalent Chromium Processed	1.1	50	No	Total Hexavalent Chromium Released	-	ıl Hexavalent Chromium Recycled	-
Total Phosphorus Processed	0	10,000	No	Total Phosphorus Released	-	Total Phosphorus Recycled	-
Total Lead Processed	0	50	No	Total Lead Released	-	Total Lead Recycled	-
Total Vanadium Processed	0	10,000	No	Total Vanadium Released	-	Total Vanadium Recycled	-
Copper	95	10,000	No	Total Copper Released	-	Total Copper Recycled	-

Notes:

(1) Steel usage quantities are considered for MPO Threshold quantities only. There are no air releases from the steel, only from welding operations.
(2) Emission quantities based on the total PM10 releases calculated In Table 2.
NA Not Available

Table 2

Pm_{10} Emission Release Calculations for Welding
Martinrea
Ridgetown, Ontario

Particulate (PM10)	Type	Annual Usage (kg/yr)	Total Fume Emission Factor (g/kg)	Estimated Emission Quantity (kg/yr)
CL201-295	Tip	4	38.40 (1)	0.14
MRTS6579	Tip	11	38.40 (1)	0.41
MRTS6612	Tip	14	38.40 (1)	0.52
MRT22278	Tip	19	38.40 (1)	0.73
MRTS6690	Tip	36	38.40 (1)	1.37
MRTS6715	Tip	13	38.40 (1)	0.49
MRTS6657	Tip	0	38.40 (1)	0.00
MRTS6656	Tip	0	38.40 (1)	0.00
			TOTAL	**3.66**

Note:

(1) Based on USEPA AP-42 emission factors for shielded metal arc welding (SMAW), provided in Section 12.19, Tables 12.19-1. Worst-case electrode was used to be conservative.

Table 3

Cooling Tower Emission Estimates
Martinrea
Ridgetown, Ontario

Recirculation Rate (gpm)	US EPA AP-42 Emission Factor (1) ($lb/10^3$ gal)	PM10 Release Estimates (kg/yr)
60	0.019	179

Notes:

(1) Based on US EPA "AP-42" emission factors for Induced Draft cooling towers (section 13.4
(2) Based on an operating rate of 5,760 hrs per year.

Table 4

Criteria Air Contaminant and GHG Air Emission Release Estimates
Martinrea
Ridgetown, Ontario

Compound	USEPA AP-42 Emission Factor - Natural Gas ($kg/10^6m^3$)	USEPA AP-42 Emission Factor - Propane Ch. 1.5 (kg/m^3)	Annual Emission Rate (kg/yr)	NPRI Reporting Threshold (kg/yr)	NPRI Reportable? (y/n)
Carbon Dioxide	1,920,000	1500	418,559	GHG	Refer to Table 6
Carbon Monoxide	1,344	0.90	284	20,000	NO
Oxides of Nitrogen (NO_2)	1,600	2	357	20,000	NO
Nitrous Oxide	35.2	0.108	10.7	GHG	Refer to Table 6
Sulphur Dioxide	9.6	--	1.8	20,000	NO
Particulate Matter	30.4	0.02	189	20,000	NO
10µm Particulate Matter (1) (2	30.4	0.02	189	500	NO
2.5µm Particulate Matter (3)	30.4	--	8	300	NO
Volatile Organic Compounds	88	0.1	21.0	10,000	NO
Methane	37	0.02	7.8	GHG	Refer to Table 6

Notes:

(1) PM2.5 is a subset of PM10 and PM10 is a subset of PM.
(2) PM10 Emissions include emissions from yearly welding, cooling tower and natural gas and propane combustion.
(3) AP-42 defines natural gas combustion PM emissions as less than 2.5 µm diameter.
(4) Carbon Dioxide used as shielding gas during welding operations.
100% estimated as released to air and added to natural gas combustion CO2 emissions above. Converted to kg using CO2 density (1.98 kg/m3).

2015 CO_2 Usage Rate (4) = 4,510 kg

2015 Natural Gas Usage Rat	***Quantity***		***Percentage***		***Contaminant CAS No.***
				Month	kg
January	47787.92	m³	25.75%	January	48
February	49066.179	m³	26.44%	February	49
March	38196.249	m³	20.58%	March	38
April	19330.106	m³	10.42%	April	20
May	6140.374	m³	3.31%	May	6
June	179.904	m³	0.10%	June	0
July	137.296	m³	0.07%	July	0
August	165.699	m³	0.09%	August	0
September	165.699	m³	0.09%	September	0
October	2291.396	m³	1.23%	October	3
November	8602.203	m³	4.64%	November	9
December	13506.927	m³	7.28%	December	14
Total	**185,570**	m³	100.00%	Total Annual	189

2015 Propane Usage Rate

Total	**39**	m³

Table 5a

Summary of NPRI Reportable Quantities
Martinrea
Ridgetown, Ontario

Compounds	CAS No. No.	2015 Off-Site Recycling (tonnes)	2015 Air Releases (tonnes)
NPRI			
Manganese	7439-96-5	156.236	0.000
Zinc	7440-66-6	649.685	0.000
Chromium	7440-47-3	104.157	0.000

Note:

NA - Not Applicable.

Table 5b

Summary of TRA Reportable Quantities
Martinrea
Ridgetown, Ontario

Compounds	CAS No. No.	2015 Contained in Product (1) (tonnes)	2015 Used (2) (tonnes)	2015 Created (tonnes)
TRA				
Manganese	7439-96-5	283.850	440.086	0.000
Zinc	7440-66-6	1,180.351	1,830.036	0.000
Chromium	7440-47-3	189.233	293.391	0.000
PM10	NA	0.000	0.000	0.189
PM2.5	NA	0.000	0.000	0.008

Notes:

NA - Not Applicable.

(1) All metal that is not recycled as scrap or released as fume leaves the Facility contained in final product
(2) Refer to Table 1 for details.

Table 6a

Carbon Dioxide Equivalent Greenhouse Gas Summary- Federal
Martinrea
Ridgetown, Ontario

Compound	CAS No.	Annual Emission Rate (1) (kg/yr)	Global Warming Potential Factor	CO2 Equivalent Emission (kg/yr)
Carbon Dioxide	124-38-9	418,559	1	418,559
Methane	74-82-8	7.75	25	194
Nitrous Oxide	10024-97-2	10.7	298	3,186
HFC-134A	811-97-2	0	1,300	0
			TOTAL	**421,938**
			Threshold (FEDERAL)	**50,000,000**
			REPORTABLE?	**No**

Note:
(1) Refer to Table 4 for summary of emission estimates.

Table 6b

Carbon Dioxide Equivalent Greenhouse Gas Summary - Provincial
Martinrea
Ridgetown, Ontario

Compound	CAS No.	Annual Emission Rate (1) (kg/yr)	Global Warming Potential Factor	CO2 Equivalent Emission (kg/yr)
Carbon Dioxide	124-38-9	418,559	1	418,559
Methane	74-82-8	7.75	21	163
Nitrous Oxide	10024-97-2	10.7	310	3,314
HFC-134A	811-97-2	0	1,300	0
			TOTAL	**422,036**
			Threshold (PROVINCIAL)	**25,000,000**
			REPORTABLE?	**No**

Note:
(1) Refer to Table 4 for summary of emission estimates.

Table 7

Summary of Reasons for Change - NPRI
Martinrea
Ridgetown, Ontario

Compounds	CAS No.	2014 Off-Site Recycling (tonnes)	2015 Off-Site Recycling (tonnes)	Percent Change	Description
NPRI					
Manganese	7439-96-5	194.461	156.236	-19.7%	Decrease in Raw Materials
Zinc	7440-66-6	888.054	649.685	-26.8%	Decrease in Raw Materials
Chromium	7440-47-3	129.640	104.157	-19.7%	Decrease in Raw Materials

Compounds	CAS No.	2014 Air Releases (tonnes)	2015 Air Releases (tonnes)	Percent Change	Description
NPRI CAC					
PM10	NA	3.611	Not Reportable	-	Decrease in welding tips
PM2.5	NA	Not Reportable	Not Reportable	-	Decrease in welding tips
NPRI					
Manganese	7439-96-5	0.340	0.000	-100.00%	Not using Lincolnweld L-50
Zinc	7440-66-6	0.000	0.000	-	No Significant Change
Chromium	7440-47-3	0.000	0.000	-	No Significant Change

Note:

NA - Not Applicable.

Table 8

Summary of Reasons for Change - TRA
Martinrea
Ridgetown, Ontario

Compounds	CAS No.	2014 Created (tonnes)	2015 Created (tonnes)	Percent Change	Description
TRA					
Manganese	7439-96-5	0.000	0.000	-	No Significant Change
Zinc	7440-66-6	0.000	0.000	-	No Significant Change
Chromium	7440-47-3	0.000	0.000	-	No Significant Change
PM10	NA	2.886	Not Reportable	-	Decrease in welding tips
PM2.5	NA	2.031	Not Reportable	-	Decrease in welding tips

Compounds	CAS No.	2014 Contained in Product (tonnes)	2015 Contained in Product (tonnes)	Percent Change	Description
TRA					
Manganese	7439-96-5	338.140	283.850	-16.1%	Decrease in Raw Materials
Zinc	7440-66-6	1494.538	1,180.351	-21.0%	Decrease in Raw Materials
Chromium	7440-47-3	218.176	189.233	-13.3%	Decrease in Raw Materials
PM10	NA	0.000	Not Reportable	-	Decrease in welding tips
PM2.5	NA	0.000	Not Reportable	-	Decrease in welding tips

Compounds	CAS No.	2014 Used (tonnes)	2015 Used (tonnes)	Percent Change	Description
TRA					
Manganese	7439-96-5	532.869	440.086	-17.4%	Decrease in Raw Materials
Zinc	7440-66-6	2382.593	1,830.036	-23.2%	Decrease in Raw Materials
Chromium	7440-47-3	347.817	293.391	-15.6%	Decrease in Raw Materials
PM10	NA	0.000	Not Reportable	-	Decrease in welding tips
PM2.5	NA	0.000	Not Reportable	-	Decrease in welding tips

Note:

NA - Not Applicable.

Table 9

Section "A" Administrative Information
Martinrea
Ridgetown, Ontario

A1.0 Reporting Year, NPRI ID, Language and Web Site Address

A1.1	NPRI ID	4891
A1.2	Language	English
A1.4	Web Site Address	
A1.5	Dun and Bradstreet (D-U-N-S) Number	246844211
A1.6	Business Number	873222475

A2.0 Facility Identification and Site Address

A2.1	Company Name	Martinrea
A2.2	Facility Name	
A2.3	Street Address	99 Golf Course Drive
A2.4	(Street Address 2)	PO Box 1090
A2.5	City/District	Ridgetown
A2.6	Province or Territory Code	Ontario
A2.7	Postal Code	N0P 2C0
A2.12	MOE ID	

A3.0 Identification of Parent Companies

P1.0	Federal Business Number	840066161
P1.1	% Ownership	100%
P1.2	Parent Company Name	Martinrea International Inc.
P1.3	Address	30 Aviva Park Drive
P1.4	(Address)	
P1.5	City/District	Vaughan
P1.6	Province/Territory	Ontario
P1.7	Postal Code	L4L 9C7
P1.8	State	
P1.9	ZIP Code	
P1.10	Country	Canada

A4.0 Facility Public Contact

A4.1	Title (Mr./Ms./etc)	Mr.
A4.2	First Name	Ian
A4.3	Last Name	Wood
A4.4	Position	Industrial Engineer
A4.5	Phone	519-674-0711
A4.6	Phone Extension	
A4.7	Fax	519-674-0500
A4.8	e-mail address	ian.wood@martinrea.com

A5.0 Facility Public Contact Address

A5.1	Company Name	See Above
A5.2	Facility Name	
A5.3	Mailing Address	
A5.4	(Mailing Address)	
A5.5	City/District	
A5.6	Province/Territory	
A5.7	Postal Code	
A5.8	State	
A5.9	ZIP Code	
A5.10	Country	

Table 9

Section "A" Administrative Information
Martinrea
Ridgetown, Ontario

A6.0 Facility Technical Contact

A6.1	Title (Mr./Ms./etc)	Same as above
A6.2	First Name	
A6.3	Last Name	
A6.4	Position	
A6.5	Phone	
A6.6	Phone Extension	
A6.7	Fax	
A6.8	e-mail address	

A7.0 Facility Technical Contact Address

A7.1	Company Name	See Above
A7.2	Facility Name	
A7.3	Mailing Address	
A7.4	(Mailing Address)	
A7.5	City/District	
A7.6	Province/Territory	
A7.7	Postal Code	
A7.8	State	
A7.9	ZIP Code	
A7.10	Country	

A8.0 Company Coordinator

A8.1	Title (Mr./Ms./etc)	NA
A8.2	First Name	
A8.3	Last Name	
A8.4	Position	
A8.5	Phone	
A8.6	Phone Extension	
A8.7	Fax	
A8.8	e-mail address	

A9.0 Company Coordinator Address

A9.1	Company Name	NA
A9.2	Facility Name	
A9.3	Mailing Address	
A9.4	(Mailing Address)	
A9.5	City/District	
A9.6	Province/Territory	
A9.7	Postal Code	
A9.8	State	
A9.9	ZIP Code	
A9.10	Country	

A10.0 Industrial Classification Codes

A10.1	Two-digit Canadian SIC Code	30
A10.2	Four-digit Canadian SIC Code	3049
A10.3	Four-digit U.S. SIC Code	3499
A10.4	Two-digit NAICS Code	31-33
A10.5	Four-digit NAICS Code	3361
A10.6	Six-digit NAICS Canada Code	336110

Table 9

Section "A" Administrative Information
Martinrea
Ridgetown, Ontario

A11.0 Full-time Employees

= total worker hours per year/2,000 hrs per worker

A11.1	Number of (Eq.) Full-time Employees	260
A11.2	Activities to Which the 20 000 hr	NA
	Employee Threshold does not Apply	

A12.0 Activities Relevant to the Reporting of Dioxins/Furans and HCB

A12.1	Facility Used for Wood Preservation (PCP)	N

A13.0 Activities Relevant to the Reporting of PAH

A13.1	Facility Used for Wood Preservation (creosote)	N

A14.0 Other Environmental Regulations or Permits (optional)

A14.1	Other Environmental Reporting/Permits	NA

A15.0 Comments

A15.1	Comments (Facility)	
A15.2	Comments (Pollution Prevention)	

A16.0 Company Official Certifying this Submission

A16.1	Title (Mr./Ms./etc)	Mr
A16.2	First Name	Don
A16.3	Last Name	Gillier
A16.4	Position	Eng. Manager
A16.5	Phone	519 674 0711
A16.6	Phone Extension	
A16.7	Fax	519 674 0500
A16.8	e-mail address	don.gillier@martinrea.com

A17.0 Company Official Address

A17.1	Company Name	See Above
A17.2	Facility Name	
A17.3	Mailing Address	
A17.4	(Mailing Address)	
A17.5	City/District	
A17.6	Province/Territory	
A17.7	Postal Code	
A17.8	State	
A17.9	ZIP Code	
A17.10	Country	

A19.0 Facility Latitude and Longitude

A19.1	Facility Latitude (decimal degrees)	NA
A19.2	Facility Longitude (decimal degrees)	NA

Table 9

Section "A" Administrative Information
Martinrea
Ridgetown, Ontario

A21.0 Independent Contractor

A21.1	Title/First Name	Zachary
A21.3	Last Name	Zehr
A21.4	Position	Consultant
A21.5	Telephone	519-884-0510 extension 2304
A21.7	Facsimile No.	519-884-0525
A21.8	Email Address	zach.zehr@ghd.com

A25.0 Criteria Air Contaminants (CACs)

A25.1	Required to report for one or more CACs?	Y
T1.0	Facility Operating Schedule (Temporal Variation)	
T1.1	Days of Operation	days per week (M, T, W, T, F)
T1.2 a)	Hours of Operation	16
T1.2 b)	Average daily start time	5
T1.3	Shut down longer than one week?	N
T1.4	Date/time of shutdown longer than one week	
T1.5	Comments (Shutdown periods) (optional)	

A26.0 Pollution Prevention

A26.1	Pollution Prevention Plans	NA

Attachment 1

Report Preview

Report Details

Report Year	2015
Report Type:	NPRI,ON MOE TRA
Report Status:	Submitted
Modified Date/Time:	16/05/2016 3:22 PM

Company and Facility Details

Company Name:	Martinrea Fabco Metallic Canada Inc.
Business Number:	897419461
Mailing Address:	Delivery Mode: GeneralDelivery Rural Route Number: 928 Address Line 1: 30 Aviva Park Drive City, Province/Territory, Postal Code: Vaughan Ontario L4L 9C7 Country: Canada
Facility Name:	Ridgetown Division
NAICS Code:	336370
NPRI ID:	4891
Physical Address:	Address Line 1: 99 Golf Course Drive City, Province/Territory, Postal Code: Ridgetown Ontario N0P2C0 Country: Canada Latitude: 42.42780 Longitude: -81.88060 UTM Zone: 17 UTM Easting: 427552 UTM Northing: 4697621

Parent Companies

Company Name:	Martinrea International Inc. (Alfield Industries Ltd.)
Business Number:	840066161
Mailing Address:	Delivery Mode: GeneralDelivery Address Line 1: 30 Aviva Park Drive City, Province/Territory, Postal Code: Vaughan Ontario L4L9C7 Country: Canada
Company Name:	Martinrea International Inc.
Business Number:	840066161
Mailing Address:	Address Line 1: 30 Aviva Park Drive City, Province/Territory, Postal Code: Vaughan Ontario L4L9C7 Country: Canada

Contacts Details

Contact Type	Technical Contact

Name:	Ian Wood
Position:	Industrial Engineer
Telephone:	5196740711
Email:	ian.wood@martinrea.com
Mailing Address:	Address Line 1: 99 Golf Course Drive City, Province/Territory, Postal Code: Ridgetown Ontario N0P2C0 Country: Canada
Contact Type	Certifying Official, Highest Ranking Employee
Name:	Don Gillier
Position:	Engineering Manager
Telephone:	5196740711
Email:	don.gillier@martinrea.com
Mailing Address:	Address Line 1: 99 Golf Course Drive City, Province/Territory, Postal Code: Ridgetown Ontario N0P 2C0 Country: Canada
Contact Type	Person who prepared the report, Public Contact
Name:	Ian Wood
Position:	Industrial Engineer
Telephone:	5196740711
Fax:	5196740500
Email:	ian.wood@martinrea.com
Mailing Address:	Delivery Mode: PostOfficeBox PO Box: 1090 Address Line 1: 99 Golf Course Drive City, Province/Territory, Postal Code: Ridgetown Ontario N0P2C0 Country: Canada

General Information

Number of employees:	260
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:	Yes
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:	No
Operating Schedule - Days of the Week:	Mon, Tue, Wed, Thu, Fri
Usual Number of Operating Hours per day:	16
Usual Daily Start Time (24h) (hh:mm):	05:00

Substance List

CAS RN	Substance Name	Releases	Releases (Speciated VOCs)	Disposals	Recycling	Unit
NA - 04	Chromium (and its compounds)	N/A	N/A	N/A	104.1570	tonnes
NA - 09	Manganese (and its compounds)	N/A	N/A	N/A	156.2360	tonnes
NA - M09	PM10 - Particulate Matter <= 10 Microns	N/A	N/A	N/A	N/A	tonnes
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	N/A	N/A	N/A	N/A	tonnes
NA - 14	Zinc (and its compounds)	N/A	N/A	N/A	649.6850	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
NA - 04	Chromium (and its compounds)	Yes	Yes		No
NA - 09	Manganese (and its compounds)	Yes	Yes		No
NA - M09	PM10 - Particulate Matter <= 10 Microns	No	No		No
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	No	No		No
NA - 14	Zinc (and its compounds)	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 - M09	PM10 - Particulate Matter <= 10 Microns	The substance did not meet the criteria to provide information to NPRI	Decrease in welding operations	Engineering calculations, emission factors
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	The substance did not meet the criteria to provide information to NPRI	Decrease in welding operations	Engineering calculations, emission factors

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
NA - 04	Chromium (and its compounds)	No	No	No
NA - 09	Manganese (and its compounds)	No	No	No
NA - 14	Zinc (and its compounds)	No	No	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
NA - 04	Chromium (and its compounds)	No	No	Yes
NA - 09	Manganese (and its compounds)	No	No	Yes
NA - 14	Zinc (and its compounds)	No	No	Yes

General Information about the Substance - Nature of Activities

CAS RN	Substance Name	Manufacture the Substance	Process the Substance	Otherwise Use of the Substance
NA - 04	Chromium (and its compounds)		As an article component	
NA - 09	Manganese (and its compounds)		As an article component	
NA - 14	Zinc (and its compounds)		As an article component	

TRA Quantifications

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
NA - 04	Chromium (and its compounds)	Use	293.391 tonnes	Yes
NA - 04	Chromium (and its compounds)	Creation	0 tonnes	Yes
NA - 04	Chromium (and its compounds)	Contained	189.233 tonnes	Yes
NA - 09	Manganese (and its compounds)	Use	440.086 tonnes	Yes
NA - 09	Manganese (and its compounds)	Creation	0 tonnes	Yes
NA - 09	Manganese (and its compounds)	Contained	283.850 tonnes	Yes
NA - 14	Zinc (and its compounds)	Use	1830.036 tonnes	Yes

CAS RN	Substance Name	Use, Creation, Contained	Quantity	Use ranges for public reporting
NA - 14	Zinc (and its compounds)	Creation	0 tonnes	Yes
NA - 14	Zinc (and its compounds)	Contained	1180.351 tonnes	Yes

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	Incidents out of the normal course of events	Significant Process Change
NA - 04	Chromium (and its compounds)					No
NA - 09	Manganese (and its compounds)					No
NA - 14	Zinc (and its compounds)					No

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
NA - M09	PM10 - Particulate Matter <= 10 Microns												
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns												

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

CAS RN	Substance Name	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
NA - 04	Chromium (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - 09	Manganese (and its compounds)	Other (specify in On-site Releases comment field)	Change in welding electrodes
NA - 14	Zinc (and its compounds)	No significant change (i.e. < 10%) or no change	
NA - M09	PM10 - Particulate Matter <= 10 Microns	Other (specify in On-site Releases comment field)	Decrease in welding operations
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns	Other (specify in On-site Releases comment field)	Decrease in welding operations

Disposals - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Disposed	Reasons for Changes in Quantities Disposed from Previous Year	Comments (Disposals)
NA - 04	Chromium (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 09	Manganese (and its compounds)		No significant change (i.e. < 10%) or no change	
NA - 14	Zinc (and its compounds)		No significant change (i.e. < 10%) or no change	

Recycling - Off-site Transfers for Recycling

CAS RN	Substance Name	Category	Basis of Estimate	Detail Code	Quantity
NA - 04	Chromium (and its compounds)	Recovery of Metals and Metal Compounds	O - Engineering Estimates		104.157 tonnes
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	O - Engineering Estimates		156.236 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	O - Engineering Estimates		649.685 tonnes

Recycling - Off-site Transfers for Recycling - Total

CAS RN	Substance Name	Total - Off-site Transfers for Recycling
NA - 04	Chromium (and its compounds)	104.157 tonnes
NA - 09	Manganese (and its compounds)	156.236 tonnes
NA - 14	Zinc (and its compounds)	649.685 tonnes

Recycling - Off-site Transfers for Recycling - By Facility

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity
NA - 04	Chromium (and its compounds)	Recovery of Metals and Metal Compounds	K & K Recycling Services	134 Orchard Rd., Ajax, ON, Canada	104.157 tonnes
NA - 09	Manganese (and its compounds)	Recovery of Metals and Metal Compounds	K & K Recycling Services	134 Orchard Rd., Ajax, ON, Canada	156.236 tonnes
NA - 14	Zinc (and its compounds)	Recovery of Metals and Metal Compounds	K & K Recycling Services	134 Orchard Rd., Ajax, ON, Canada	649.685 tonnes

CAS RN	Substance Name	Category	Off-site Name	Off-site Address	Quantity

Recycling - Off-site Transfers for Recycling - Dioxins and Furans Breakdown List By Facility

Category	CAS RN	Substance Name	Off-site Name	Quantity

Recycling - Reasons and Comments

CAS RN	Substance Name	Reasons Why Substance Was Recycled	Reasons for Changes in Quantities Recycled from Previous Year	Comments
NA - 04	Chromium (and its compounds)	Unusable parts or discards	Other (specify in recycling comments field)	Decrease in Raw Materials
NA - 09	Manganese (and its compounds)	Unusable parts or discards	Other (specify in recycling comments field)	Decrease in Raw Materials
NA - 14	Zinc (and its compounds)	Unusable parts or discards	Other (specify in recycling comments field)	Decrease in Raw Materials

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
NA - 04	Chromium (and its compounds)	No	Enters the facility (Use)	293.391 tonnes	347.817 tonnes	2014	-54.426	-15.65
NA - 04	Chromium (and its compounds)	No	Creation	0 tonnes	0 tonnes	2014	0	
NA - 04	Chromium (and its compounds)	No	Contained	189.233 tonnes	218.176 tonnes	2014	-28.943	-13.27
NA - 09	Manganese (and its compounds)	No	Enters the facility (Use)	440.086 tonnes	532.869 tonnes	2014	-92.783	-17.41
NA - 09	Manganese (and its compounds)	No	Creation	0 tonnes	0 tonnes	2014	0	
NA - 09	Manganese (and its compounds)	No	Contained	283.850 tonnes	338.140 tonnes	2014	-54.290	-16.06
NA - 14	Zinc (and its compounds)	No	Enters the facility (Use)	1830.036 tonnes	2382.593 tonnes	2014	-552.557	-23.19
NA - 14	Zinc (and its compounds)	No	Creation	0 tonnes	0 tonnes	2014	0	
NA - 14	Zinc (and its compounds)	No	Contained	1180.351 tonnes	1494.538 tonnes	2014	-314.187	-21.02

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

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 04	Chromium (and its compounds)	Other	Decrease in Raw Materials
NA - 09	Manganese (and its compounds)	Other	Decrease in Raw Materials
NA - 14	Zinc (and its compounds)	Other	Decrease in Raw Materials

Comparison Report - Transfers off-site for Recycling

CAS RN	Substance Name	Is Breakdown	Category	Quantity	Last Reported Quantity	Reporting Period of Last Reported Quantity	Change	% Change
NA - 04	Chromium (and its compounds)	No	Total off-site Transfers for Recycling	104.157 tonnes	129.640 tonnes	2014	-25.483	-19.66
NA - 09	Manganese (and its compounds)	No	Total off-site Transfers for Recycling	156.236 tonnes	194.461 tonnes	2014	-38.225	-19.66
NA - 14	Zinc (and its compounds)	No	Total off-site Transfers for Recycling	649.685 tonnes	888.054 tonnes	2014	-238.369	-26.84

Comparison Report - Transfers off-site for Recycling - Reason(s) for Change

CAS RN	Substance Name	Reason(s) for Change	Other Reason
NA - 04	Chromium (and its compounds)	Other	Decrease in Raw Materials
NA - 09	Manganese (and its compounds)	Other	Decrease in Raw Materials
NA - 14	Zinc (and its compounds)	Other	Decrease in Raw Materials

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
NA - 04	Chromium (and its compounds)	Martinrea International Inc. prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. This plan will determine the technical and economic feasibility of each identified option to determine which, if any, are viable for implementation at this time. As part of the continuous improvement practices at the facility, technical advances will be monitored for new opportunities for reduction.
NA - 09	Manganese (and its compounds)	Martinrea International Inc. is committed to playing a leadership role in protecting the environment. The use of Chromium, Manganese, and Nickel is an integral part of the products that we manufacturer, and it is not technically or economically feasible to reduce. We will continue to use these substances in strict accordance with all applicable environmental regulations.
NA - 14	Zinc (and its compounds)	Martinrea International Inc. prides itself on technological innovation in order to produce high quality products in an environmentally responsible manner. This plan will determine the technical and economic feasibility of each identified option to determine which, if any, are viable for implementation at this time. As part of the continuous improvement practices at the facility, technical advances will be monitored for new opportunities for reduction.

Progress on TRA Plan - Targets

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
NA - 09	Manganese (and its compounds)	No quantity target	No timeline target	
NA - 14	Zinc (and its compounds)	No quantity target	No timeline target	

Progress on TRA Plan - Description

CAS RN	Substance Name	Quantity	Years	Description of Target
NA - 04	Chromium (and its compounds)	No quantity target	No timeline target	
NA - 09	Manganese (and its compounds)	No quantity target	No timeline target	
NA - 14	Zinc (and its compounds)	No quantity target	No timeline target	

Progress on TRA Plan - Additional Actions

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
NA - 04	Chromium (and its compounds)	No		
NA - 09	Manganese (and its compounds)	No		
NA - 14	Zinc (and its compounds)	No		

Progress on TRA Plan - Reductions due to additional actions taken

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 04	Chromium (and its compounds)	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 04	Chromium (and its compounds)	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 - 04	Chromium (and its compounds)	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 - 04	Chromium (and its compounds)	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 - 04	Chromium (and its compounds)	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 - 04	Chromium (and its compounds)	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 - 04	Chromium (and its compounds)	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 - 04	Chromium (and its compounds)	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 - 09	Manganese (and its compounds)	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 09	Manganese (and its compounds)	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 - 09	Manganese (and its compounds)	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 - 09	Manganese (and its compounds)	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.	

CAS RN	Substance Name	Reductions due to additional actions taken	Quantity
NA - 09	Manganese (and its compounds)	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 - 09	Manganese (and its compounds)	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 - 09	Manganese (and its compounds)	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 - 09	Manganese (and its compounds)	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 - 14	Zinc (and its compounds)	The amount of reduction in **use** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	The amount of reduction in **creation** of the substance at the facility during the reporting period that resulted due to the additional actions.	
NA - 14	Zinc (and its compounds)	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 - 14	Zinc (and its compounds)	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 - 14	Zinc (and its compounds)	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 - 14	Zinc (and its compounds)	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 - 14	Zinc (and its compounds)	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 - 14	Zinc (and its compounds)	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 - 14	Zinc (and its compounds)	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
NA - 04	Chromium (and its compounds)	No		
NA - 09	Manganese (and its compounds)	No		
NA - 14	Zinc (and its compounds)	No		

Report Submission and Electronic Certification

NPRI - Electronic Statement of Certification

Specify the language of correspondence

English

Comments (optional)

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

I also acknowledge that the data will be made public.

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

Company Name

Martinrea Fabco Metallic Canada Inc.

Certifying Official (or authorized delegate)

Don Gillier

Report Submitted by

Don Gillier

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 16/05/2016, I, Don Gillier, 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
NA - 04	Chromium (and its compounds)
NA - 09	Manganese (and its compounds)
NA - 14	Zinc (and its compounds)

Exit Record Certification Statement

As of 16/05/2016, I Don Gillier, 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 Ridgetown Division and am familiar with their contents and to my knowledge they are factually accurate.

TRA Exit Record Substances

CAS RN	Substance Name
NA - M09	PM10 - Particulate Matter <= 10 Microns
NA - M10	PM2.5 - Particulate Matter <= 2.5 Microns

Company Name

Martinrea Fabco Metallic Canada Inc.

Highest Ranking Employee

Don Gillier

Report Submitted by

Don Gillier

Website address

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

Submitted Report

Period	Submission Date	Facility Name	Province	City	Programs
2015	16/05/2016	Ridgetown Division	Ontario	Ridgetown	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: 3.10.0