

**CLUB COFFEE L.P.**  
**#65 Carrier Drive, Rexdale, Ontario M9W 5V9**

**Toxic Substance Reduction Plan Summary**  
**Public Report**  
**Particulate Matter  $\leq 10$  microns**  
**Particulate Matter  $\leq 2.5$  microns**

**Toxics Reduction Act and Ontario Regulation 455/09**

Ver. 1

October 8<sup>th</sup>, 2014



CLUB COFFEE L.P.

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55 Carrier Drive, Rexdale, ON, M9W 5V9 Tel: 416 675-1300 • Fax: 416 675-8902

## CORPORATE ENVIRONMENTAL POLICY

May 23, 2013

Protection of the environment is an important consideration in Club Coffee's workplace activities and is consistent with the overall goals of the company. Compliance with all regulatory requirements is the minimum level of standard for Club Coffee. Environmental protection is a key management responsibility, as well as the responsibility of every employee within the company. It is our policy to:

- Conduct our operations in compliance with all laws, regulations and standards concerning environmental protection and provide a mechanism for self-monitoring to ensure compliance.
- Eliminate or minimize the generation of hazardous waste in production and support operations through cost-effective initiatives.
- Reuse and recycle those waste materials that cannot be eliminated to the maximum extent possible, in preference to treatment and/or disposal of such wastes.
- Incorporate environmental protection goals in the design or purchase of new products and materials and new manufacturing and assembly processes.
- Ensure employee's awareness of environmental concerns, actions and responsibilities relating to their particular assignments through ongoing communication and training.

## **Toxic Reduction Plan Summary**

As required under the Toxics Reduction Act & Ontario Regulation 455/09

Summary for Club Coffee L.P. – Toxic Reduction Plan (Oct. 8, 2014)

TRA Phase 2 substances;

Particulate Matter 10 microns and less (PM10) (CAS# - NA-M09), and

Particulate Matter 2.5 microns and less (PM2.5) (CAS# - NA-M10).

Club Coffee L.P. (Club Coffee), located in Rexdale, Ontario, produces roasted coffee for human consumption. The main facility activities include roasting, grinding, packaging, shipping, receiving, and warehousing. Other activities include flavouring and maintenance. Natural gas combustion that is required to produce freshly roasted coffee from raw bean and the roasting of the bean itself creates air contaminants and is the sources of prescribed toxic substances; Particulate Matter 10 microns and less (TRA Phase 2), and Particulate Matter 2.5 microns and less (TRA Phase 2).

As part of the production process, coffee roasters utilize gas fired burners that roast the coffee beans at high temperature. The resulting flue emissions are passed through an afterburner at each machine that burns off particulate matter and flue gases. The roaster burner, its ignition system, controls and the afterburner are all inspected as part of planned maintenance (internal maintenance procedures) to determine the efficiency and condition of the units. Any remedial work required as a result of these inspections is scheduled and carried out as a priority in-line with our commitment to environmental controls.

Protection of the environment is an important consideration in Club Coffee's workplace activities and is consistent with the overall goals of the company. Compliance with all regulatory requirements is the minimum level of standard for Club Coffee. Environmental protection is a key management responsibility, as well as the responsibility of every employee with the company. Club Coffee will continue to conduct research to identify any viable reduction options and to keep up with industry standards with regards to pollution prevention.

There were no incidents out of the normal course of events at the facility during the previous calendar year.

### **Facility Information**

Facility Name: Club Coffee L.P. – Rexdale (Club Coffee)

Location: 65 Carrier Drive, Rexdale, Ontario M9W 5V9

Two Digit NAICS Code: 31

Four Digit NAICS Code: 3119

Six Digit NAICS Code: 311920

Number of Full-time Employees: ~ 169

UTM Spatial Coordinates: (NAD83-Zone17) 611938 mE: 4843683 mN (front entrance)

**Public Contact**

Name: Wing Torres, Health, Safety and Environmental Manager  
Address: 65 Carrier Dr., Rexdale, Ontario M9W 5V9  
Phone Number: (416) 675-1300 ext. 2690 Fax Number: (416) 675-7598  
E-mail: [wtorres@clubcoffee.ca](mailto:wtorres@clubcoffee.ca)

**Operator name**

Name: Club Coffee L.P.  
Address: 65 Carrier Dr., Rexdale, Ontario M9W 5V9  
Phone Number: (416) 675-1300 Fax Number: (416) 675-7598

**Toxic Substances for Which Facility Must Prepare Plan:**

Substance 1: Particulate Matter;  $\leq 10$  microns (PM10) CAS Number: NA-M09 (TRA Phase 2)  
Substance 2: Particulate Matter;  $\leq 2.5$  microns (PM2.5) CAS Number: NA-M10 (TRA Phase 2)  
– have common quantifications

**Statement of Intent**

The facility does not use the toxic substances and therefore has no intent to reduce the use of the toxic substances. The substances are created in coffee roasting and natural gas use. Club Coffee intends to continue to strive to increase energy efficiency while providing products of the highest quality. The facility maximizes efficiency in the requirements for manufacturing and no options were found for implementation. Therefore, there is no intent to reduce the creation or air release of the toxic substances.

**Objective of the Plan**

The plan found no options for implementation and therefore has no final objective.

**Target & Timeline**

Club Coffee is unable to reduce the creation or air release of the toxic substances and therefore has no targets or timelines for the Plan.

**Description of Toxic Substance Use**

The toxic substances; Particulate Matter 10 microns and less (PM<sub>10</sub>), and Particulate Matter 2.5 microns and less (PM<sub>2.5</sub>) are released to air through the combustion of natural gas and operation of the coffee roasters.

Club Coffee operates a series of natural gas burners which produce heat to be utilized in the coffee roasting. The exhaust produced from in the bean roasting and combustion of natural gas at these burners is treated through afterburners to reduce emissions. Creation of the emissions released to the atmosphere is the source of the toxic substances PM10 and PM2.5. During the Roasting Process natural gas is combusted for heat energy to fire the roasters and it is also utilized for comfort heating (ancillary use), creating and releasing Particulate Matter 10 and 2.5 to air.

## TRA Summary Table

Table 1. Club Coffee, Rexdale - TRA Public Reporting

Substance	CAS #	Reporting Year	Used tonnes	Created tonnes	Released tonnes	Recycled tonnes	Disposed tonnes	Contained in Product tonnes
Particulate Matter PM10	NA-09	2012	-	1 - 10	1 - 10	-	-	-
Particulate Matter PM2.5	NA-10	2012	-	1 - 10	1 - 10	-	-	-

## Description of Options

No options for reduction of the toxic substances were found. The seven categories of Toxic Substance Reduction options are assessed by equipment based on the current systems and practices in-place at Club Coffee. All categories are assessed and an explanation for why no option is available is stated.

Toxic Substance Reduction Category	Options
1. Material or Feedstock Substitution	Not Possible: Club Coffee is in the business of providing fresh roasted Coffee from raw green bean ingredient. Substituting for green bean would alter the business altogether. Currently available roasting technologies offer Natural Gas as the best source of energy for a heat to roast beans.
2. Product Design or Reformulation	Not possible as green coffee beans are our base ingredient and the main product cannot be reformed or re-designed without alteration of the product.
3. Equipment or Process Modification	Our catalytic incinerator and after burners are the required for this process and can not be modified. There is no currently available equipment or process modification to reduce the creation of the Substances.
4. Spill & Leak Prevention	The roasting and burner systems where the toxic substances are created, are closed systems and do not allow for spill or leak of the gas prior to the designed exhaust point. Club Coffee's maintenance system (7 i) ensures that regular preventative maintenance is carried out as required by the manufacturer.
5. Onsite Reuse or Recycling	The onsite reuse or recycling of the Substances is not possible.
6. Improved Inventory Management or Purchasing Techniques	Inventory management and purchasing techniques do not impact the creation of the Substances.
7. Training or Improved Operating Practices	Ongoing training on our Roasting and Grinding Techniques with all affected individuals to maintain optimum operating practices. We conform to internal Standard Operating Procedures and best practice.

Table 3. Identifying and Describing Options in Seven Categories for the reduction of Toxic Substances at the Facility	
Toxic Substance Reduction Category	Options : Natural Gas Combustion (Comfort heat and Cooling)
1. Material or Feedstock Substitution	Natural Gas is most economical, reliable and efficient fuel available. Other fuels would also need to be delivered to the site.
2. Product Design or Reformulation	Product is manufactured to governmental requirements and formulation is based on customer requirements.
3. Equipment or Process Modification	Equipment is current and maintained to operate efficiently. The heating and cooling requirements are met using the most efficient and cost effective equipment and fuel.
4. Spill & Leak Prevention	Heating and cooling equipment are maintained by a licenced contractor with a preventative maintenance program. Natural Gas valves are the property of the supplier and are maintained by their own staff.
5. Onsite Reuse or Recycling	It is not possible to reuse or recycle fuel, heat or substances from the process.
6. Improved Inventory Management or Purchasing Techniques	Natural Gas is supplied from pipeline as required.
7. Training or Improved Operating Practices	Operators and Engineers maintain equipment operation to set practices and are fully trained.

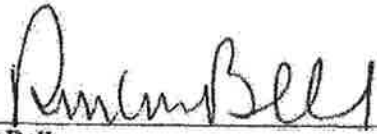
These Toxic Substance Reduction Plan Summaries accurately reflect the Plans they summarize.

## Plan Confirmations for Toxic Substance

### Confirmation by Highest Ranking Employee

As of Oct 3, 2014, I, Ross Bell, confirm that I have read the toxic substance plan for the toxic substances referred to below and am familiar with its contents, and to my knowledge the plan is factually correct and it complies with the Toxic Reduction Act, 2009 and Ontario Regulation 455/09 made under the Act, except for meeting the due date.

Toxic substances - Particulate Matter;  $\leq 10$  microns [PM10 - CAS Number: NA-M09]  
Particulate Matter;  $\leq 2.5$  microns [PM2.5 - CAS Number: NA-M10]

  
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Ross Bell  
Senior VP of Operations, Club Coffee L.P.  
(Highest Ranking Employee)

Oct 3<sup>rd</sup> 2014  
Date

I, Grahaem Capaldi confirm that I am familiar with the processes at Club Coffee L.P. that create the toxic substances referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv and v of subsection 4 (1) of the Toxics Reduction Act, 2009 that are set out in the plan dated July 30<sup>th</sup>, 2014 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act, except for meeting the due date.

[PM10 - CAS Number NA-M09]  
[PM2.5 - CAS Number: NA-M10]

  
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Grahaem Capaldi  
President - Environmental Reporting Systems Limited (Toxic Substance Reduction Planner)

0063 Oct. 8<sup>th</sup>, 2014  
TSRP# Date