

BC Refrigeration Units Stewardship Plan

Annual Report to the Director

2018

Submitted to: Director, Extended Producer Responsibility Programs

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Executive Summary

Products within Plan	Vending Machines, Refrigeration Coolers, Beverage Dispensing Systems operated for commercial purposes only by Canadian Beverage Association (CBA) members.	
Program website	http://www.canadianbeverage.ca/environment/stewardship/	

Recycling Regulation Reference	Topic	Summary
Part 2, section 8(2)(a)	Public Education Materials and Strategies	 Stewardship Plan and annual reports continue to be posted on the CBA's website. The CBA will continue to provide any third-party instructions on where refrigeration units can be properly disposed for end-of-life management.
Part 2, section 8(2)(b)	Collection System and Facilities	 Refrigeration units are collected by CBA members at three locations in BC. Once collected, units destined for end-of-life management are transported to one of two processing facilities.
Part 2, section 8(2)(c)	Product Environmental Impact Reduction, Reusability and Recyclability	 CBA members continue to retrofit or refurbish refrigeration units throughout their lifecycle to extend their useful life in-trade. Further efforts are being undertaken to reduce environmental impacts, including: the recycling and reuse of old parts removed from units during refurbishment/repairs, as well as phasing out the use of hydrofluorocarbons in refrigeration equipment.
Part 2, section 8(2)(d)	Pollution Prevention Hierarchy and Product / Component Management	 Refrigeration units that are collected are either refurbished/reused or sent for recycling to metal processors in British Columbia (See table 5). Approximately 82% of the components in each beverage vending machine are recycled (See table 4). Approximately 84% of the components in each beverage cooler are recycled (See table 4). Approximately 75% of the components in each beverage dispensing unit are recycled (See table 4).
Part 2, section 8(2)(e)	Product Sold and Collected and Recovery Rate	 4,041 refrigeration units were introduced into trade in 2018 (See table 6). 3,360 refrigeration units were collected in 2018 for end-of-life management, collected for refurbishment and sold to third parties (See table 7). The collection rate for 2018 was 72% (See table 7).
Part 2, section 8(2)(e.1)		 All units were collected at three locations in the Metro Vancouver Regional District.
	Compariso	n of Key Performance Targets

Part 2 section 8(2)(g); See full list of targets in Plan Performance

Recycling Regulation Reference	Topic	Summary
Priority Stewardship Plan Targets	Performance	Strategies for Improvement
Annual Collection Target: 80%	Collection Rate: 72%	Reporting issues impacted this year's collection rate. One member determined it had a high number of units lost-in-trade following an audit of existing units in trade. Another member encountered data deficiencies after switching over its information-technology system used to track refrigeration units. As a result, a number of units could not be accounted for. The CBA will be working with members to further standardize and improve reporting systems to prevent data deficiencies and ensure consistent reporting and auditing practices among the members of this plan.

Program Outline

The Canadian Beverage Association (CBA)¹ is the national industry association representing the broad spectrum of brands and companies that manufacture and distribute the majority of non-alcoholic refreshment beverages consumed in Canada.

In 2012, the CBA submitted a Stewardship Plan, in accordance with Part V of British Columbia's (BC) Recycling Regulation, for beverage refrigeration units, including coolers, vending machines and beverage dispensing systems, which exhibit their branding or are owned outright by a participating CBA member beverage company. This report is the sixth annual report of the Stewardship Plan (hereafter "the Plan") and includes our program performance and collection rates for the year of 2018.

The four members participating in the Plan, include:

- > Coca-Cola Refreshments Canada (Now Coca-Cola Canada Bottling Limited)
- Cott Beverages Canada (Now Refresco Group)
- PepsiCo Beverages Canada
- Red Bull Canada

All beverage refrigeration units covered under this Plan are used for commercial purposes and are managed through internal processes by CBA member companies and/or their distributors throughout the units' lifecycle. The products covered under the Plan include the following CBA member-owned and branded refrigeration units in Table 1.

¹ www.canadianbeverage.ca

Table 1: Products covered under Stewardship Plan

Product Type	Further Description
Beverage Coolers	Countertop, 1 door units, 2 door units, 3 door units
Beverage Vending Machines	72" and 79" high machines that distribute cans and/or PET bottles
Beverage Dispensing Systems	Bar guns, Counter units, Drop-in units, Combo units

General Disclosure:

Due to system limitations and operational disruptions during the year, we disclose that there were some deficiencies in the data and supporting documentation available during the verification process.

One member self-reported this year because there was insufficient supporting documentation to verify the data it submitted. We are working with the member to ensure adequate reporting is in place for future reports. The member has committed to developing a new internal tracking system. Rather than reporting the weight of refrigeration units collected, the member has implemented a system, as of October 2018, to report the number of units collected.

Another member self-reported because there was insufficient supporting documentation to verify data from Jan. 1, 2018, to May 31, 2018, following a switchover of the company's information-technology system used for asset tracking. The member also removed bar guns from its asset tracking system because they do not have a refrigeration or electrical component. Data was tested using the new IT system from June 1, 2018, to Dec. 31, 2018, to ensure that the member can fully report for next year. The CBA is confident the member will be able to provide full reporting next year.

The CBA will be working with members to further standardize and improve reporting systems in order to prevent data deficiencies and ensure consistent reporting and auditing practices among the members of this plan.

Public Education Materials and Strategies

The Stewardship Plan only includes commercial products managed and processed internally by CBA members and distributors. To ensure public awareness of our industry's efforts to properly manage our refrigeration units, the CBA will continue to post the Plan and annual reports on our website. The link to the website is the following: http://www.canadianbeverage.ca/environment/stewardship/.

CBA members will continue to place a notification sticker on all refrigeration units if sold to a third-party in order to direct the third-party to contact the CBA for instructions on where the unit can be properly disposed of for end-of-life management.

Collection System and Facilities

There has been a decrease in the number of collection facilities used since the 2017 Annual Report. The number of collection facilities has decreased from four to three.

CBA members continue to operate a closed-collection network and any maintenance or refurbishments (parts replacements, etc.) are undertaken by the beverage company or its local distributor. Therefore, when a unit requires retrofitting or refurbishment, it is collected and transported by the member or distributor to their facility for further triage and maintenance.

Units are collected for end-of-life management and refurbishment at three collection locations depending on the steward of the unit. The three collection locations are located in the Metro Vancouver Regional District. Two of these locations are CBA member facilities, and the third location is the facility of a distributor, which manages units on behalf of the steward. The collection location are:

In house collection facility 2450 United Blvd. Coquitlam, BC V3K 6G2 PUR Brands Inc 2642 Nootka St. Vancouver, BC V5M 3M5

In house collection facility 747 Chester Rd, Delta, BC V3M 6E7

When it has been determined that a piece of refrigeration equipment can no longer be used by the CBA member, a decision is made to remove the equipment as an asset from the company's list of assets and to have the unit recycled and processed by a contracted BC third party (referred to as a processor).

Two processing facilities were used by stewards for end-of-life management, which are located in the Metro Vancouver Regional District. These facilities include the following locations:

ABC Recycling 8081 Meadow Avenue Burnaby, BC V3N 2V9 Joss Brothers Recycling Limited 12195 Industrial Rd.

Surrey, BC V3V 3S1

Product Environmental Impact Reduction, Reusability and Recyclability

Most CBA members' refrigeration units undergo more than one retrofit or refurbishment throughout their lifecycle to extend their useful life in trade. Furthermore, CBA members increasingly use units that depreciate much slower, delaying the need for disposal. Additional efforts undertaken to reduce environmental impacts include the recycling and reuse of old parts removed from units during refurbishment/repairs.

An area of continuous improvement relates to the manufacturers and beverage companies as a whole. Efforts in the industry to increase the useful life of all refrigeration equipment through enhanced durability and the use of modular systems that can be more easily replaced and repaired will reduce the number of units managed for end-of-life over time.

Leadership on Halocarbon Management

CBA members actively take steps to manage halocarbons, and play a leadership role in reducing the use of hydrofluorocarbons (HFCs) in refrigeration equipment. HFCs are powerful greenhouse gases (GHGs) with global warming potentials (GWP) thousands of times greater than carbon dioxide. These chemicals were introduced for use as refrigerants and blowing agents to replace ozone-depleting substances (ODS).

As part of the CBA's efforts to address climate change, CBA member companies with facilities in BC are phasing out the use of HFCs in refrigeration units. These efforts include transitioning to natural refrigerants or refrigerants with a low GWP, and installing HFC-free insulating foam in new beverage machines.

For existing machines that still contain ODSs and HFCs, CBA members track and manage these chemicals in accordance with BC Regulation 387/99. Member companies either have their own trained, licensed technician remove refrigerants from the compressors of beverage machines or have a licensed service provider do so for them. The refrigerant is safely recovered into a container that is then returned to the supplier for reclamation or destruction.

Pollution Prevention Hierarchy and Product / Component Management

Beverage coolers, beverage vending machines and beverage dispensing system units are owned by beverage companies and placed in commercial facilities for use. Therefore, CBA members are individually responsible for maintenance and end-of-life management. All CBA members in the Plan have internal processes, which ensure the collected product is managed appropriately as per the pollution prevention hierarchy.

Generally, if a unit breaks down in use, the machine will either be repaired on-site, or removed to a member's off-site triage facility to be repaired. When the equipment is removed, it is replaced with either a used machine or a new machine.

The average lifespan of these types of machines tends to be extensive, although maintenance and servicing is required to ensure longevity and developments in technology have increased the lifespan of machines. The following table shows the average lifespan of the different types of refrigeration equipment.

Table 2: Average lifespan of different types of refrigeration equipment

Product Type	Average Product Lifespan
Beverage Coolers – Small (countertop)	3-6 years
Beverage Coolers – Larger	13 -15 years
Beverage Vending Machines	9 - 12 years
Beverage Dispensing Systems	7 – 9 years

Before a beverage machine is recycled, the refrigerant is removed from the compressor by a licensed technician for reclamation or destruction in accordance with provincial regulations. The oil and fluorescent lightbulbs, as well as any other useful parts, are also removed to be reused or recycled. Once refrigeration units are ready for end-of-life management, they are shipped to intermediary scrap metal processors. Refrigeration equipment from CBA members is a very small percentage of the overall metal managed by intermediary processors. As a result, beverage refrigeration equipment is mixed with other scrap metal, including major appliances (such as washers, dryers, and freezers), car bodies and other light mixed metals (e.g. bicycle frames, barbeques, metal sheets and siding, metal doors, and shelving) from various residential and commercial sources.

The intermediary processors based within BC then sell the baled metal to downstream scrap metal processors where the equipment is shredded to recover the various ferrous and non-ferrous metals. These scrap metal processors use large electric-powered hammer mill shredders to pulverize bales of mixed metals, which are composed of automobile bodies, appliances, and other light mixed scrap metal. Once the scrap metal is pulverized into small pieces, they are then sorted by different "downstream" metal separation processes including magnets, trommels, screens, optical scanners, eddy currents, and other types of proprietary process equipment. Shredder output, which is known as "aggregate" in the industry, is an intermediate process material that contains significant amounts of valuable ferrous and non-ferrous metal that is separated and sold as commodities. In total, ferrous and non-ferrous metals recovered through these operations account for approximately 75% of the inbound material.

The remaining estimated 25% of the material from the shredded equipment cannot be recovered and is commonly referred to as shredder fluff. Shredder fluff, is a mixture of largely non-metallic materials resulting from the shredding of auto bodies, appliances and other scrap metal materials. It consists primarily of foam, fabric, plastics, rubber, tires, glass, wood, and debris materials, along with minute amounts of remaining metallic material that is too small to be economically separated and removed from the aggregate. This shredded fluff also consists of approximately 1% of non-recoverable ferrous and non-ferrous metals such as strips of copper or aluminum that are wrapped around parts of the equipment or metals imbedded in the insulation or plastic materials. This material cannot be recovered and is therefore sent for disposal.

Table 3: Acceptable Product End Fate Matrix

If possible, units are retrofitted or refurbished; if reuse is not possible the unit is destined for end-of-life management. This table only considers units sent for end-of-life management.

Unit	Reused	Recycle	Energy Recovery	Land Fill
Vending Machines	N/A	1st Preference	N/A	Х
Cooler Units	N/A	1st Preference	N/A	Х
Beverage Dispensing Systems	N/A	1st Preference	N/A	х

Table 4: Estimated Product End Fate Data for year ended December 31, 2018²

Unit	Reused	Recycle	Energy	Land Fill	Unknown
			Recovery		
Vending	0%	82%	0%	18%	N/A
Machines					
Cooler Units	0%	84%	0%	16%	N/A
Beverage					
Dispensing	0%	75%	0%	25%	N/A
Systems	078	73/6	0 /6	23/0	IV/A

Table 5: Processing Pathways for End-of-Life Management

The table below demonstrates the general nature of the processing pathway which occurs once a unit can no longer be used by the CBA member company (i.e. can't be refurbished/re-used) and is sent to a third-party processor for recycling and processing. The first phase of processing consists of the unit being sent to intermediary processor in BC, where the unit is baled and sold to a downstream processor located in province or elsewhere in North America. At the second phase of processing the bale is shredded to separate recyclable mixed metal components from non-recyclable mixed materials. Depending on the unit type, at least 75% of the unit's components are recycled while the remaining 16-25% of components are sent for landfill disposal.³

Unit	Nature of Processing	
	Phase#1 - Transfer to Intermediary Processor in BC.	Phase#2 - Transfer to direct processor in BC or elsewhere in North America
Vending Machines	100% of unit components	~82% of unit components recycled (mixed metal)
Cooler Units	100% of unit components	~84% of unit components recycled (mixed metal)
Beverage Dispensing Systems	100% of unit components	~75% of unit components recycled (mixed metal)

² Units sent for end-of-life management

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³ In response to a Ministry request to review the baseline study for the stewardship Plan, the CBA engaged Reclay StewardEdge (RSE). RSE had prepared the research for our association's original 2013 Baseline Study Report by conducting interviews with local scrap metal processors. After reassessing the baseline study and conducting additional research to ensure its accuracy, RSE confirmed in December 2017 that it "is confident the original recovery assumptions from the 2013 Baseline Study for CBA member refrigeration units remain valid and accurate." RSE's original baseline recycling rate analysis found that the average recycling rate for all refrigeration units is 83%.

Product Sold and Collected and Recovery Rate

The tables and information below show highlights of the Stewardship Plan for the year of 2018. In 2018, the total number of units collected was 3,360. The total number of units introduced and distributed into the province was 4,041.

Table 6 shows the total number of refrigeration units at the start of Quarter 1 2018 compared to the end of Quarter 4 2018 in-trade.

Table 6: Number of units' in-trade at start of Q1 2018 and at the end of Q4 2018

	Number in- trade: start of Q1 2018	Introduced into trade: Q1-Q4 2018 ⁴	Removed from trade: Q1-Q4 2018 ⁵	Number in- trade: end of Q4 2018	Net Change: 2018 Year End ⁶
Beverage Vending Machines	7,265	427	947	6,745	-520
Beverage Coolers	27,472	2,956	2,399	28,029	557
Beverage Dispenser Systems	5,588 ⁷	658	1,328	5,018	-670
Total	40,425	4,041	4,674	39,792	-633

The Recycling Regulation defines the recovery rate as the amount of product collected divided by the amount of product generated. However, the nature of our products as long-life assets and therefore the indirect correlation between products distributed into the province and collected in the year, results in the recovery rate not being applicable.

Due to the closed-loop nature of stewards' refrigeration and vending operations, as well as the high monetary value of refrigeration units, they are directly managed and tracked throughout their lifecycle until they are sent to processors for end-of-life management.

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⁴ Includes both new and refurbished units as well as other adjustments with a net in-trade position.

⁵ Includes units sold to third-parties, collected for refurbishment, collected for end-of-life management or lost in trade and other adjustments with a net removed from trade position.

⁶ Net change equals Q1 number in-trade plus, new in trade plus other adjustments with a net in-trade position, less units lost in trade, units sold to 3rd party, units collected for end-of-life management, units in refurbishment/retro-fitting, and less other adjustments.

⁷ This is an adjusted opening balance from the prior year's closing balance. One member removed bar guns from its reporting this year because it has not defined bar guns as an electronic or electrical product as per BC regulations. As a result, the dispensers' category for the opening balance has been reduced by 2,553 for one member.

A small number of units annually are sold to retailers/customers for continued use and exit the Plan's tracking system. A number of units are also transferred out of province. However, stewards inform and educate retailers/customers where vending/refrigeration units can be properly managed at the end of their lifecycle. It is only when units are lost-in-trade (i.e. stolen or misplaced by customer/retailer) that they may not be properly managed (i.e. collected) at the end of their lifecycle. Therefore, the Plan's collection rate is calculated by the following:

Units Collected (Units sold to 3rd parties, units collected for refurbishment, units sent for end-of-life management and units transferred to other provinces)

Units Removed from Tracking System: (Nominator plus # of units lost in trade and other adjustments with a net removed from trade position)

Table 7: Collection Rate for the Year of 2018

	(a) # of Units Collected for End-of-Life Management	(b) # of Units Sold to 3 rd Party	(c) # of Units in Refurbishment	(d) # of Units Transferred to Other Provinces ⁹	(e) # of Units Collected	(f) # of Units Lost in Trade (2018)	(g) Other Adjustments	(h) Units Removed from Tracking System	Collection Rate (%)
Beverage Vending Machines	441	25	25	61	552	359	36	947	58.29%
Beverage Coolers	1,044	10	209	593	1,856	543	0	2,399	77.37%
Beverage Dispenser Systems	261	541	105	45	952	376	0	1,328	71.69%
Total	1,746	576	339	699	3,360 ⁸	1,278	0	4,674 ⁹	71.89%
Notes:					(a)+(b)+(c)+(d)			(e)+(f)+(g)	(e)/(h)

Table 8: Geographic Breakdown of Units Collected Based on Collection Facilities

	Beverage Vending Machines	Beverage Coolers	Beverage Dispenser Systems	Total
Metro Vancouver Regional District	952	1,856	552	3,360
Other BC Regional Districts	N/A	N/A	N/A	N/A
Other (Out-of-Province)	N/A	N/A	N/A	N/A

⁸ Of the 3,360 units collected, 2,202 are self-reported for 2018.

⁹Of the 4,674 units removed from tracking system, 2,717 are self-reported for 2018.

Plan Performance

Summary of Program Performance Measures:

Measures	Targets/Goal						
	2012	2013	2014	2015	2016	2017	2018
Collection	75% target	Collection	Collection	Collection	Collection	Collection	Collection
	committed to in Plan.	Target is 80%	Target is 80%	Target is 80%	Target is 80%	Target is 80%	Target is 80%
		Collection	Collection	Collection	Collection	Collection	Collection
	Gather	Rate: 81%	Rate : 95.39%	Rate: 94.01%	Rate: 90.52%	Rate: 87.06%	Rate: 71.89
	baseline						
	collection						
	data.						
Collection	No specific targ	get was committe	ed for 2018. CBA	members to con	tinue to maintair	n complete rever	se logistics for
System	refrigeration units.						
	For products sold to third-parties for continued use (~2% of products available at end-of-life), the CB					CBA is	
	committed to providing education and collection options.						
Consumer	No specific target was committed for 2018. CBA members to maintain current processes. Given product						
Awareness	longevity and specificity of the market, the CBA commits to continue to make third-parties aware of the stewardship program through notification on refrigeration units and details included in purchase agreements.					of the	
						greements.	
Product Life	Depends on	No specific	No specific	No specific	No specific	No specific	No specific
Cycle	product type	target was	target was	target was	target was	target was	target was
	(see Pollution	committed	committed	committed	committed	committed	committed
	Prevention	for 2013.	for 2014.	for 2015.	for 2016.	for 2017.	for 2018.
	Hierarchy	Depends on	Depends on	Depends on	Depends on	Depends on	Depends on
	and Product /	product type	product type	product type	product type	product type	product type
	Component	(see Pollution	(see Pollution	(see Pollution	(see Pollution	(see Pollution	(see Pollution
	Management	Prevention	Prevention	Prevention	Prevention	Prevention	Prevention
	Section	Hierarchy	Hierarchy	Hierarchy	Hierarchy	Hierarchy	Hierarchy
	above)	and Product /	and Product /	and Product /	and Product /	and Product /	and Product /
		Component	Component	Component	Component	Component	Component
		Management	Management	Management	Management	Management	Management
		Section	Section	Section	Section	Section	Section
		above)	above)	above)	above)	above)	above)
Pollution	Target all	No specific	No specific	No specific	No specific	No specific	No specific
Prevention	products for	target was	target was	target was	target was	target was	target was
Hierarchy	collection	committed	committed	committed	committed	committed	committed
	and	for 2013.	for 2014.	for 2015.	for 2016.	for 2017.	for 2018.
	management	Target all	Target all	Target all	Target all	Target all	Target all
	according to	products for	products for	products for	products for	products for	products for
	the PPH.	collection	collection	collection	collection	collection	collection
		and	and	and	and	and	and
		management	management	management	management	management	management
		according to	according to	according to	according to	according to	according to
		the PPH.	the PPH.	the PPH.	the PPH.	the PPH.	the PPH.

APPENDIX A:

Third Party Assurance Statement for Non-Financial Information



Independent practitioner's reasonable assurance report on non-financial information included in CBA's Annual Report to the Director, Environment Quality Branch, British Columbia Ministry of Environment and Climate Change Strategy

To the Management of Canadian Beverage Association

We have undertaken a reasonable assurance engagement on the 2018 Annual Report to the Director, Environment Quality Branch, British Columbia Ministry of Environment and Climate Change Strategy ("the Report") of Canadian Beverage Association ("CBA"), as part of CBA's commitments under the Extended Producer Responsibility ("EPR") program for the year ended December 31, 2018.

Management's responsibility

Management is responsible for the preparation of the Report in accordance with sections 8(2)(b), 8(2)(d), 8(2)(e) and 8(2)(g) established in the British Columbia Regulation 449/2004 Recycling Regulation ("the criteria"), as further detailed in Appendix A. Management is also responsible for such internal control as management determines necessary to enable the preparation of the Report that is free from material misstatement.

Our responsibility

Our responsibility is to express a reasonable assurance opinion on the Report based on the evidence we have obtained. We conducted our reasonable assurance engagement in accordance with the Canadian Standard on Assurance Engagements (CSAE) 3000, Attestation Engagements Other than Audit or Reviews of Historical Financial Information.

This standard requires that we plan and perform this engagement to obtain reasonable assurance about whether the Report is free from material misstatement.

Reasonable assurance is a high level of assurance, but is not a guarantee that an engagement conducted in accordance with this standard will always detect a material misstatement when it exists. The nature, timing and extent of procedures selected depends on our professional judgment, including an assessment of the risks of material misstatements, whether due to fraud or error, and involves examining evidence about management's preparation of the Report in accordance with the criteria.

We believe the evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Inherent limitations

Non-financial performance information is subject to more inherent limitations than financial information, given the characteristics of the Selected Information and the methods used for determining and calculating such information. Qualitative interpretations of relevance, materiality and the accuracy of data are subject to individual assumptions and judgements. Furthermore, the nature and methods used to determine such information, as well as the evaluation criteria and the precision thereof, may change over time. It is important to read our report in the context of evaluation criteria.

Our independence and quality control

We have complied with the relevant rules of professional conduct/code of ethics applicable to the practice of public accounting and related to assurance engagements, issued by various professional accounting



bodies, which are founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior.

The firm applies Canadian Standard on Quality Control 1, *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance Engagements* and, accordingly, maintains a comprehensive system of quality control, including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Opinion

In our opinion, CBA's 2018 Annual Report to the Director, Environment Quality Branch, British Columbia Ministry of Environment and Climate Change Strategy for the year ended December 31, 2018 has been properly prepared, in all material respects, in accordance with the criteria.

Emphasis of matter

Without qualifying our opinion, we draw your attention to Appendix B which describes why certain items required by the Assurance Requirements have been excluded. Our opinion is not qualified in respect of this matter.

Purpose of statement and restriction of use and distribution

The Report has been prepared to report to the BC Ministry of Environment and Climate Change Strategy as part of CBA's commitments under the Recycling Regulation. As a result, the Report may not be suitable for another purpose.

Our report is intended solely for CBA and the BC Ministry of Environment and Climate Change Strategy, in accordance with the terms of our engagement, and should not be distributed to or used by parties other than CBA and the BC Ministry of Environment and Climate Change Strategy.

Chartered Professional Accountants

Pricewaterhouse Coopers LLP

Vancouver, BC July 2, 2019



Appendix A – Criteria

1. Section 8(2)(b) of the Recycling Regulation - the location of collection facilities, and any changes in the number and location of collection facilities from the previous report

CBA's reported result:

The number of collection facilities have decreased by 1 in 2018. The number of collection facility locations is 3 (2017: 4) for the year ended December 31, 2018.

The collection locations are located in Greater Vancouver Regional District.

The locations are:

In house collection facility 2450 United Blvd, Coquitlam, BC v3K 6G2 PUR Brands Inc 2642 Nootka St, Vancouver, BC V5M 3M5

In house collection facility 747 Chester Rd, Delta, BC, V3M 6E7

Reference: page 6 of CBA's 2018 Annual Report to the Director

- **Collection Facility:** Locations where refrigeration, dispensing and vending equipment are transferred to at end of life by member companies and/or contracted distributors for evaluation and end-of-life management processes, including preparation of units for transport to recycling processors for the year ended December 31, 2018.
- The number of collection facilities is obtained from the list of collection facilities as of December 31, 2018 maintained by management of the member companies.
- The calculation of the number of collection facilities is performed by adding up the total of collection facilities within the list of the collection facilities.
- The changes in the number of collection facilities are tracked and a summary of changes is provided at the end of the year.



2. Section 8 (2) (d) of the Recycling Regulation - the description of how the recovered product was managed in accordance with the pollution prevention hierarchy

CBA's reported result:

Table 3: Acceptable Product End Fate Matrix

Unit	Reused	Recycle	Energy Recovery	Land Fill
Vending Machines	N/A	1st preference	N/A	X
Cooler Units	N/A	1st preference	N/A	X
Beverage Dispensing Systems	N/A	1st preference	N/A	Х

Table 4: Estimated Product End Fate Data for year ended December 31, 2018

Unit	Reused	Recycle	Energy Recovery	Land Fill	Unknown
Vending Machines	0%	82%	0%	18%	N/A
Cooler Units	0%	84%	0%	16%	N/A
Beverage Dispensing Systems	0%	75%	0%	25%	N/A

The basis of evidence for product treatment is derived from the Baseline Study Report submitted to the British Columbia Ministry of Environment in 2013 and have been reviewed and reaffirmed in 2018 by the sustainability consultancy firm, Reclay StewardEdge.

Table 5: Processing Pathways for EOL Management

Unit	Nature of Processing			
	Phase#1 - Transfer to	Phase#2 - Transfer to direct processor		
	Intermediary Processor in	in British Columbia or elsewhere in		
	British Columbia	North America		
Vending Machines	100% of unit components	~82% of unit components recycled		
		(mixed metal)		
Cooler Units	100% of unit components	~84% of unit components recycled		
		(mixed metal)		
Beverage Dispensing Systems	100% of unit components	~75% of units components recycled		
		(mixed metal)		

Reference: Pages 8 and 9 of CBA's 2018 Annual Report to the Director

- **Pollution Prevention Hierarchy:** Hierarchy in descending order of preference, such that pollution prevention is not undertaken at one level unless or until all feasible opportunities for pollution prevention at a higher level have been taken.
- **Product End Fate:** Units sent for end of life management, estimated on the recycled amount of scrap metal from a unit
- **Recycle:** The element of the unit that can be recycled.
- Landfill: The waste element of the unit that cannot be recycled is sent to the landfill.



Method of reporting:

- The use of sustainability consultancy firm, Reclay StewardEdge has been used for the basis of the estimated product end fate and processing pathway percentage values for the year ended December 31, 2018.
- **3.** Section 8 (2) (e) of the Recycling Regulation the description of the total amounts of the producer's product sold and collected and, if applicable, the producers' recovery rate

CBA's reported result:

Total number of units of product collected in 2018 was 3,360.

2,202 units of the 3,360 units of product collected was based on self reporting. Our assurance report does not extend to providing an opinion over the accuracy of the self-reported data.

Reference: Page 12 of the CBA 2018 Annual Report to the Director

Note:

Recovery rate has been excluded as it is not applicable (see page 10 of the Annual Report). In accordance with Section 3.5.3 of the BC EPR Non-financial third party assurance guidance 2018, assurance is not required for product sold data if the stewardship program does not report a recovery rate, as defined in the Regulation, in accordance with the approved stewardship plan.

- **Recovery Rate:** A calculated value derived from dividing total units collected by total units sold and measured as a percentage rounded to the first decimal point.
- **Product Sold:** Number of units distributed into the province as new units installed in-trade or refurbished/retrofitted units re-installed in-trade
- **Product Collected:** Number of units collected for refurbishment/retrofit, for end of life management or sold to third parties by the beverage companies.
- **Beverage Units:** Coolers, vending machines, and beverage dispensing systems which exhibit branding or are owned outright by the beverage company.
- **Beverage Company:** Producers as defined in Schedule 1 of the Recycling Regulation that are members of the Canadian Beverage Association.



4. Section 8 (2) (g) of the Recycling Regulation - the performance for the year in relation to targets in the approved stewardship plan under Sections 8(2)(b), (d), and (e)

CBA's reported result:

Collection Rate: 71.89%

2,202 of the 3,360 collection units included has been self reported and 2,717 of 4,674 of the units removed from the tracking system have been self reported.

Reference: Page 12 of the CBA 2018 Annual Report to the Director

- **Collection Rate:** A calculated value derived from dividing total units collected by total units removed from tracking system and measured as a percentage rounded to two decimal points.
- **Unit Collected:** Number of units collected for refurbishment/retrofit, for end of life management or sold to third parties by the beverage companies.
- Units Removed From Tracking System: Number of units collected plus units lost in trade and other adjustments.



Appendix B to the Independent Reasonable Assurance Report

CBA has not reported the recovery rate for the year in accordance with 8(2)(e) of the Recycling Regulations for the year ended December 31, 2018 as the approved stewardship plan does not outline the requirement to reporting recovery rates. If the stewardship program does not report a recovery rate in the approved plan, assurance for producers' product sold data is not required as outlined in the assurance requirements.