# BC BREWERS RECYCLED CONTAINER COLLECTION COUNCIL 

## Annual Report to the Director

2019 Calendar Year



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## 1. Executive Summary

| Products within plan: | Refillable Glass Beer, Cider \& Cooler Containers, Metal Beverage Alcohol Cans and Secondary <br> Packaging |
| :--- | :--- |
| Program website: | http://www.EnviroBeerBC.com |


| Recycling Regulation Reference | Topic | Summary (5 Bullet Maximum) |
| :---: | :---: | :---: |
| Part 2, Section 8(2)(a) | Public Education Materials \& Strategies <br> Schedule 1 \& 5 | - Consumer awareness survey results indicate $93 \%$ awareness in Schedule 1 program and 61\% awareness in Schedule 5 program <br> - Released can and bottle recycling videos providing tips on returning empty containers and associated packaging and showed what happens to those containers after they have been returned <br> - Updated posters displayed at return locations to include messaging around returning secondary packaging |
| Part 2, Section 8(2)(b) | Collection Systems \& Facilities <br> Schedule 1 \& 5 | - BRCCC delivers beer to retail locations and licensed establishments and collects containers at retail locations, licensed establishments and container depots <br> - BDL operates a warehouse facility and delivery vehicles in BC <br> - There are 1,140 container redemption facilities for BRCCC program containers in the province; see tables 1 and 2 for breakdown by return location type and by regional district, respectively |
| Part 2, Section 8(2)(c) | Product Environmental Impact Reduction, Reusability \& Recyclability <br> Schedule 1 \& 5 | - All primary containers are either reused or recycled <br> - All associated secondary packaging is returnable and recyclable <br> - Estimated waste diversion rate of 20,378 TN, avoided 86,532 TN of $\mathrm{CO}_{2} \mathrm{E}$ associated with containers |
| Part 2, Section 8(2)(d) | Pollution Prevention Hierarchy \& Product Component Management <br> Schedule 1 \& 5 | - Reduction of new materials used continues to be recognised through the reuse of refillable bottles <br> - Brewers receiving bottles for refilling have expressed intent to continue to refill those containers <br> - $100 \%$ of aluminum containers collected were recycled in 2019 <br> - $100 \%$ of refillable glass collected is either sent for intended reuse by brewers or recycling ( $99 \%$ sent to brewers for re-use, $1 \%$ sent directly to a glass recycler for recycling) <br> - $100 \%$ of material reported as collected packaging, sent to a recycler for recycling |
| Part 2, Section 8(2)(e) | Product Sold and Collected \& Recovery Rate | 1. 708.9 million containers sold and 643.4 million containers recovered <br> 2. $90.76 \%$ recovery rate <br> 3. For over a decade, the overall return rate has been maintained well over the recovery target for containers <br> 4. $78.32 \%$ Secondary Packaging recovery rate |
| Part 2, Section 8(2)(e.1) |  | See Section 7 for estimated breakdown per regional district. |


|  |  | Deposits Received: $\$ 73,021,937$ <br> Deposits Refunded: $\$ 64,397,788$ |
| :--- | :---: | :--- |
| Part 2, Section 8(2)(f) | Deposits \& Refunds | Audit of B.C. Brewers' Recycled Container Collection Council Financial <br> Statements and audit procedures in connection with Sections 8(2)(b), <br> (d), and (e) of the Recycling Regulation and deposits received and <br> refunds paid conducted by KPMG LLP. |

## Comparison of Key Performance Targets

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

| Priority Stewardship Target <br> (as agreed with Ministry File Lead) | Performance | Strategies for Improvement |
| :---: | :---: | :---: |
| 1. Container Return Rates <br> 87.5\% recovery/collection rate in each container category | Targets Partially Achieved: <br> - $101.86 \%$ return rate for refillable industry standard bottles (ISB) <br> - $86.41 \%$ return rate for refillable proprietary glass bottles <br> - $90.38 \%$ return rate for aluminum cans <br> - $90.76 \%$ return rate overall | - Improve strategy for collection of refillable proprietary glass bottles <br> - Continue to communicate with brewers and collection network regarding categorization of containers |
| 2. Secondary Packaging Return Rates <br> 75\% Recovery/Collection rate of secondary packaging material | Target Achieved: <br> - $78.32 \%$ recovery/collection rate attained for secondary packaging | N/A |
| 3. Consumer Accessibility for Containers <br> Improve consumer access to BRCCC return locations to 385 (305 LRS, 80 depots) with at least 1 contracted return location in each regional district | Targets Partially Achieved: <br> - 183 return locations ( 112 LRS, 71 depots) <br> - 26 of 28 regional districts with at least 1 contracted return location | - Reviewing current coverage levels to identify key areas for depot expansion <br> - Perform additional drive time studies to identify potential areas that require increased coverage |
| 4. Consumer Accessibility for Secondary Packaging <br> 1,152 total return locations | Target Partially Achieved: <br> - 1,140 total return locations in the BRCCC network <br> - Materials received from Recycle BC are collected through the Recycle BC network which includes additional collection locations not included in the 1,140 reported in the BRCCC network | - Add incremental collection sites to the BRCCC collection network in potential areas that require increased coverage. |


| 5. Consumer Accessibility for Drive Time <br> $80 \%$ of population within 10 minute drive of BRCCC authorized return location | Target Achieved: <br> - $80 \%$ of population within a 10 minute drive of a BRCCC authorized return location | N/A |
| :---: | :---: | :---: |
| 6. Consumer Awareness: <br> Promotion/Education Initiatives <br> 3 net new consumer promotion/education initiatives throughout the Schedule $1 \& 5$ plans | Target Achieved: <br> - At least one net new consumer promotion/education initiative rolled out in each program year | - Continue to promote the collection system and educate the public to increase awareness |
| 7. Consumer Awareness: Level of Consumer Awareness <br> $60 \%$ level of consumer awareness on consumer awareness survey | Target Achieved: <br> - $61 \%$ consumer awareness survey result | N/A |
| 8. Pollution Prevention <br> $100 \%$ of collected materials for reuse or to recycling commodity markets <br> Secondary Packaging: <br> - Report in accordance with PHP <br> - $\quad$ Track end fate of materials in annual stewardship audit | Targets Achieved: <br> - Aluminum: 100\% processed for metal recovery <br> - Refillable Glass Bottles: <br> - $99 \%$ of material shipped, sent to brewers for reuse ( $100 \%$ of which were intended to be refilled) <br> - $1 \%$ of material shipped, sent directly to a glass recycler for recycling by BDL <br> - $100 \%$ of material reported as collected, sent to a recycler for recycling | - Continue to ensure service providers meet processing standards <br> - Work with brewers and other collection locations to strengthen reporting and tracking systems |

## 2. Program Outline

The BC Brewers Recycled Container Collection Council (BRCCC) is a not-for-profit BC society, whose members represent over 95\% of overall beer production in BC and the majority of import production. Those producers appointing BRCCC as their stewardship agency under Schedule 1 and Schedule 5 of the Recycling Regulation are comprised of breweries and other beverage alcohol manufacturers, including those operating in the province in addition to import brewers who designate BRCCC as their product steward when they obtain LDB approval to sell their products in BC.

Brewers Distributor Limited (BDL) is a joint venture company owned by Labatt Breweries of Canada and Molson Coors Canada that provides distribution services throughout Western Canada for the majority of brewers that sell into British Columbia. BDL operates warehouses and distribution facilities throughout British Columbia and distributes beer to provincially licenced liquor stores including government-run Liquor Distribution Branch (LDB) outlets, private licensee retail stores (LRS) and LDB rural agency stores (private businesses authorized by the LDB to sell liquor with other goods in small or remote communities) as well as bars, restaurants, and other licensed establishments.

BDL acts as the service provider to BRCCC, operating the stewardship program. On behalf of the BRCCC, BDL collects refillable glass beer, cider, and cooler bottles as well as imported \& domestic metal beverage alcohol cans sold in British Columbia and the secondary packaging that accompanies those items (beer cases etc.). This recovery happens predominately in conjunction with the distribution of full goods, with container returns occupying trailers returning from delivering full goods to retail and private sites.

BDL's return collection includes the beer industry standard refillable glass bottle (ISB), non-standard proprietary refillable beer, cider, and cooler bottles and metal beverage alcohol cans as well as the packaging that accompanies these containers, and the packaging associated with non-refillable beer containers as applicable. BDL's distribution and collection also extends to beer kegs. Beverage alcohol sold in these containers includes a deposit which is paid by the consumer at the point of purchase and returned at the point of return. BRCCC has also established a cost recovery mechanism for cans and secondary packaging, which funds BRCCC's product stewardship functions through its subscribers. All costs associated with BRCCC and its container recovery system are internalized in brewers' operating costs and are not passed on to the consumer in addition to retail prices.

Consumers are able to return all program containers and associated packaging to any retail location where beer is sold or to a BRCCC authorized container return depot. BDL collects containers and packaging from these retail locations and authorized depots, as well as from licensees like bars and restaurants. Intact refillable containers are returned to the brewers to be reused in the brewing process, while damaged or broken bottles are sent to be recycled into new, high-end products including new bottles and fibreglass insulation. Aluminum cans are compacted and were sent to be recycled into new cans and other aluminum based products. Paper packaging is sent to a number of recyclers to be turned into liner board used to make drywall, boxboard rolls to create packaging such as cereal boxes and tissue rolls.

Information on BRCCC's product stewardship systems can be found at www.EnviroBeerBC.com.

## 3. Public Education Materials \& Strategies

BRCCC continues to enjoy high consumer awareness levels in BC for its recovery program, with very high levels of consumer satisfaction with regard to service at return locations. In 2019, the BRCCC undertook a consumer awareness survey with respect to its container (Schedule 1) and secondary packaging (Schedule 5) stewardship programs in BC. Based on these results, BRCCC's
program for beer containers was very well-known with $93 \%$ of respondents being aware of the deposit program for beverage alcohol containers. BRCCC also hit the consumer awareness target in the Schedule 5 plan with $61 \%$ of respondents knowing that the original packaging of these containers can also be returned. With the Schedule 5 program being in its early years, the BRCCC will continue to create awareness about packaging recovery in BC .

In 2017, BRCCC's consumer awareness strategy focused on reinforcing the effectiveness of the container recovery program while at the same time introducing the complimentary secondary packaging program that was approved by the B.C Ministry of Environment in late 2016. The secondary packaging program was launched in 2017 and saw a number of announcements and updates made to help educate stakeholders about the program. To aid in the education of consumers, new posters (shown below) were developed in 2019 to display at return locations to include messaging around returning secondary packaging. Overall, BRCCC continued efforts to a) educate stakeholders - principally the consumer - about BRCCC and how its stewardship system operates and the environmental benefits it delivers; and b) promoting the authorized return locations within its stewardship network.


BRCCC continued to work with ABLE BC to secure additional private retail liquor locations to support collections. ABLE BC regularly informs their members of this benefit through newsletters, publications and surveys.

In 2019, the BRCCC released can and bottle recycling videos on its website www.EnviroBeerBC.com providing tips on returning empty containers and associated packaging and showed what happens to those containers after they have been returned. BRCCC continued supply program "swag" such as coasters, beer cozies, and frisbees to several events and conferences to drive awareness of the programs.

Finally, BRCCC continues to maintain its membership in the Stewardship Agencies of $B C$ (SABC). As a member of SABC, BRCCC funds the Recycling Council of BC's (RCBC) various consumer information vehicles, such as the Recycling Hotline, the RCBC website and the Recyclepedia. BRCCC also directs consumers to the ' $B C$ Recycles' portal as a one-stop location for information on recycling in BC.

## 4. Collection System and Facilities

Consumers can return all program containers and related secondary packaging to BRCCC Authorized Depots, Licensee Retail Stores (LRS), Government Liquor Stores (GLS) and Rural Agency Locations (RAL) for their deposit redemption. BRCCC, through BDL, also provides on-site collection services through thousands of licensed establishments (i.e. restaurants and bars). Table 1 provides the number and type of operating collection facilities within the province. In 2019, BDL performed the collection, sorting, and storage of containers from one warehouse location. Transport and distribution of product and collection of containers is supported by a fleet of BDL vehicles as well use of third party carriers, where required. BRCCC also accepts all secondary packaging associated with containers for return and recycling.

Table 1 - BC Container Redemption Locations for Beer Containers \& Secondary Packaging

| Return Location Type | $\mathbf{2 0 1 9}$ | $\mathbf{2 0 1 8}$ |
| :--- | ---: | ---: |
| BDL Authorized Depots | 71 | 73 |
| Licensee Retail Stores | 651 | 649 |
| Government Liquor Stores | 198 | 200 |
| Rural Agency Locations | 220 | 223 |
| Grand Total | $\mathbf{1 1 4 0}$ | $\mathbf{1 1 4 5}$ |

Currently, there are 1,140 retail and authorized depot redemption centres available for container collections across British Columbia. This is a reduction of 5 locations from 2018 due to a location move or changes to ownership. BRCCC, through BDL, continues to monitor coverage levels to identify key areas for LRS contracted expansion that would improve the consumer experience as well as overall productivity of the program. BRCCC facilitates a high rate of return of containers through its convenient and numerous collection facilities within all regional districts of British Columbia, as outlined in Table 2.

Table 2 - Number of Collection Locations by Regional District

| Regional Districts | $2019 \text { (All }$ <br> Locations) | $2018 \text { (All }$ <br> Locations) | 2019 (Contracted Locations) | 2018 (Contracted Locations) |
| :---: | :---: | :---: | :---: | :---: |
| Alberni - Clayoquot | 17 | 17 | 7 | 7 |
| Bulkley - Nechako | 20 | 19 | 6 | 5 |
| Capital | 83 | 85 | 16 | 16 |
| Cariboo | 41 | 40 | 6 | 6 |
| Central Coast | 4 | 4 | 0 | 0 |
| Central Kootenay | 42 | 42 | 5 | 5 |
| Central Okanagan | 50 | 50 | 7 | 7 |
| Columbia - Shuswap | 36 | 37 | 2 | 2 |
| Comox Valley | 24 | 24 | 5 | 5 |
| Cowichan Valley | 29 | 30 | 8 | 8 |
| East Kootenay | 33 | 35 | 2 | 2 |
| Fraser - Fort George | 38 | 36 | 14 | 14 |
| Fraser Valley | 77 | 74 | 9 | 8 |
| Metro Vancouver | 295 | 297 | 45 | 45 |
| Kitimat - Stikine | 17 | 17 | 8 | 8 |
| Kootenay Boundary | 17 | 17 | 0 | 0 |
| Mount Waddington | 17 | 18 | 1 | 1 |
| Nanaimo | 48 | 47 | 6 | 6 |
| North Okanagan | 32 | 32 | 2 | 2 |
| Northern Rockies | 4 | 4 | 2 | 2 |
| Okanagan - Similkameen | 38 | 37 | 5 | 5 |
| Peace River | 31 | 31 | 4 | 3 |
| qathet | 12 | 12 | 1 | 1 |
| North Coast | 11 | 12 | 3 | 4 |
| Squamish - Lillooet | 19 | 20 | 4 | 4 |
| Strathcona | 28 | 31 | 6 | 7 |
| Sunshine Coast | 15 | 15 | 4 | 4 |
| Thompson - Nicola | 62 | 62 | 5 | 5 |
| Grand Total | 1140 | 1145 | 183 | 182 |

In 2018, the BRCCC conducted a drive time study and concluded that $80 \%$ of British Columbia residents are within a 10 minute drive of a BRCCC authorized return location. Consumers can visit www.EnviroBeerBC.com/Locations/ to search for the closest authorized BRCCC Depot or retail location by postal code.

With the introduction of Schedule 5, secondary packaging, some material is also sourced in accordance with contractual arrangements between BRCCC and other recyclers. In 2019, a large portion, 1,000 tonnes (2018: 1,250 tonnes) of material was acquired from Recycle $B C$ in the calendar year. This helps to capture the secondary packaging associated with one-way glass containers and other beer and cider packaging that may not have otherwise come back with the containers. This material was collected via the Recycle BC network and therefore collected at even more collection locations than outlined in the tables above.

## 5. Product Environmental Impact Reduction, Reusability and Recyclability

The brewers of British Columbia hold environmental awareness and preservation in high regard. The industry has taken back containers and packaging since brewers started brewing in the province over 130 years ago; the practice continues today. The foundation of BDL's business strategy remains the efficient collection and recycling of containers and packaging and maximizing return rates, which helps achieve environmental goals, and ensures fewer raw materials are in use in the brewing process. Providing consumers with the ability to take-back returns at retail establishments generates high returns on containers and packaging and does so in a cost-effective manner. Coordinating the redistribution of trailer space between full goods and returned containers reduces fuel consumption, which minimizes environmental impact and operating costs. The cost-effectiveness of the system enables the brewing sector to maintain production in refillable containers and encourages new brewers in $B C$ to use refillable over non-refillable containers. Each new entrant who chooses to use refillable containers continues to shrink the environmental impact of the industry and contributes to its exceptional return rates.

The pillar of BDL's business model is the recovery rates of the containers and by extension the related secondary packaging as the majority of the bottles returned to a collection location are done so in their original packaging. All secondary packaging produced by brewers in BC is $100 \%$ recyclable and by returning it to a collection location along with the containers, it ensures that cardboard and plastic are being kept out of landfills. Through the network of return locations, these resources are able to be optimized for high-end recycling and sold back to industry to be used again.

In order to maximize the efficiency of the production cycle, the Canadian beer industry has developed an industry standard bottle (ISB), which is available to every brewer in the country. The use of a standard bottle limits the need and cost for specialized handling and storage of bottles returning to different brewers and significantly improves the production efficiencies by eliminating the need for brewers to perform costly packaging line changeovers. Presently there are numerous western Canadian breweries that are signatories to the Standard Mould Bottle Agreement (sometimes referred to as the Industry Standard Bottle Agreement) and sell their products in the ISB. The economic efficiency of the British Columbia brewers' reuse and recycling system extends its benefits as savings to the consumers and to the environment.

BRCCC's container redemption system generates one of the highest return rates for aluminum cans in North America. Producing cans from recycled aluminum instead of virgin aluminum reduces the energy resources used and pollution produced.

The secondary packaging (the outer box) is more than just packaging in this circular economy. As long as the case is intact, these cases also act as the transportation vessel that the refillable containers travel back to brewers in.

## 6. Pollution Prevention Hierarchy and Product / Component Management

The Schedule 1 product stewardship plan outlines two types of containers to be used by the BRCCC brand owners: refillable glass bottles and recyclable metal (principally aluminum) cans. According to the expanded hierarchy of material management, reuse and recycle are among the most favourable forms of prevention (see Figure 1 ) ${ }^{1}$. BRCCC remains committed to ensuring the use of $100 \%$ recyclable and non-toxic containers, each with their own wellestablished secondary markets. The long-standing history of the refillable glass bottle along with its substantial environmental benefits sets its precedent as the preferred container type among brewers, especially when compared to one-way glass containers. Each time a


Figure 1 Pollution Prevention Hierarchy glass bottle is reused, the total amount of raw materials needed is reduced, as well as the energy resources needed to produce new glass stock. This helps the beer industry significantly reduce its $\mathrm{CO}_{2}$ emissions and save significant amount of energy. Operationally, the washing and cleaning of refillable bottles requires much less energy and water than that of producing new glass. For each tonne of aluminum recycled, over 200 GJ of energy are saved in avoided production processes including: bauxite mining, alumina refining, and electrolysis ${ }^{2}$.

The number of refillable glass bottles shipped to brewers for re-use is tracked and recorded by BDL, as well as the weight of broken or culled glass shipped directly to glass recyclers. BDL's records also include the weights of aluminum cans that are crushed into "biscuits" and shipped to aluminum recyclers. In 2019, 100\% of the aluminum and glass containers sent from BDL to recyclers was recycled. By reusing and recycling containers and packaging, then releasing the containers back into the market, brewers maintain their commitment to the environment and ensure that the recycling operations done by BDL are utilized to the fullest. Table 3 shows the results for the materials recovered in 2019.

Table 3: Results of Recovered Containers \& Packaging $2019^{3}$

| Type of Container | Results of Recovered Material |
| :---: | :--- |
| Aluminum Cans | $100 \%$ Processed for metal recovery |
| Refillable Glass Bottles | $100 \%$ of the material sent to brewers were intended to be refilled |
|  | $99 \%$ of material shipped, sent to brewers <br> for reuse |
|  | $1 \%$ of material shipped, sent directly to a glass recycler for <br> recycling by BDL |

BRCCC's product stewardship system for containers also results in energy savings and reduced greenhouse gas (GHG) emissions, which are significant and are outlined in Table 4. The estimated GHG reductions associated with the program's recycling and reuse in 2019 are equivalent to pulling over $18,695^{4}$ cars off of provincial roads.

[^1]Table 4 - Energy, Greenhouse Gas, and Avoided Pollutants Associated with BRCCC Container Recovery 2019

| Pollution Prevention Metric |  <br> Recycling | Aluminum Recycling | Total Diversion |
| :--- | :---: | :---: | :---: |
| Weight of Materials Diverted (tonnes) | 11,888 | 8,490 | 20,378 |
| Avoided GHG Emissions (MT-CO2-eq) | 4,517 | 82,014 | 86,532 |
| Avoided Energy Consumption (GJ) | 80,836 | 741,696 | 822,532 |
| Avoided Pollution - Nitrogen Oxides (tonnes) | 21 | 267 | 287 |
| Avoided Pollution - Sulphur Oxides (tonnes) | 73 | 775 | 848 |
| Avoided Pollution - Particulate Matter (tonnes) | 44 | 269 | 313 |
| Avoided Pollution - Solid Waste (tonnes) | 792 | 36,482 | 37,274 |

Note: Figures in table have been rounded

The significant environmental savings associated with recycling aluminum extend from energy reduction to direct atmospheric emissions. Nitrogen oxides, sulphur dioxides, and particulate matter emissions are reduced by over 60\%, $90 \%$ and $95 \%$ respectively when aluminum products are made from recycled materials. In 2019, the estimated total emission reductions of nitrogen oxides, sulphur oxides and particulate matter from recycling aluminum and reusing glass bottles in BC are 287, 848, and 313 metric tonnes respectively.

Additionally, the production of aluminum generates solid waste that is four and a half times heavier than the resulting aluminum. The BRCCC container recovery system ensures the reduction of significant quantities of virgin aluminum or glass production through reuse and recycling. An estimated 37,274 metric tonnes of solid waste were prevented in 2019 as a result of BRCCC's container management. The prevented waste is also in addition to the approximately 20,378 tonnes of reused or recycled materials already diverted from provincial landfills in 2019 as a result of BRCCC's efforts. Combined, these totals represent BRCCC's accumulative impact of roughly 57,652 tonnes of reduced solid waste production annually - equivalent to approximately $\$ 6.2$ million in Vancouver tipping fees ${ }^{5}$. In summary, BRCCC continues to deliver outstanding results for British Columbia's environment through its product stewardship program.

In 2017, BRCCC began to run a schedule 5 program to recover secondary packaging associated with beer and cider (refillable and one-way containers), the vast majority of this packaging is boxboard/cardboard, such as can cases and beer boxes. These materials are then sent to a recycler and eventually make their way into a variety of products including cereal boxes and drywall components.

## 7. Product Sold and Collected and Recovery Rate

Return, reuse and recycling rates for all BRCCC container categories exceeded the 75\% mandated target set under the Environmental Management Act. Industry Standard bottles achieved a return rate of over 100\%, attributable to an increase in seasonal sales (December purchases returned in January). Refillable proprietary bottle return rate, which represent only $2.4 \%$ of total sales, were slightly below Plan targets at $86.41 \%$.

In 2019, BRCCC's product stewardship plan collected over 643 million containers with an overall program return rate of $90.76 \%$. For over a decade, the overall return rate has been maintained well over the recovery target. Table 5 outlines a summary of the recovery rate by container type for 2019.

[^2]Table 5a - BRCCC Container Recovery Rates $2019^{6}$

| Container Type | Sales Dozens | Returns Dozens | Recovery Rate (\%) |
| :--- | :---: | :---: | :---: |
| Cans | $55,210,900$ | $49,900,119$ | $90.38 \%$ |
| Refillable Glass Containers | $2,431,826$ |  |  |
| Industry Standard Bottles | $1,436,144$ | $2,476,963$ | $101.86 \%$ |
| Non-Standard Bottles | $3,867,970$ | $3,717,953$ | $86.41 \%$ |
| Total Refillables | $59,078,870$ | $53,618,072$ | $96.12 \%$ |
| Total All Containers |  | $90.76 \%$ |  |

Note: Figures in Table 5 have been rounded

Table 5b - BRCCC Secondary Packaging Recovery Rates $2019^{6}$

| Packaging Type | Tonnes Generated | Tonnes Recovered | Recovery Rate (\%) |
| :--- | :---: | :---: | :---: |
| Secondary Packaging | 3,893 | 3,049 | $78.32 \%$ |

## Secondary Packaging and Other Containers

BRCCC is proud to have been collecting and recycling secondary packaging now included in Schedule 5 (Packaging and Printed Paper) of the BC Recycling Regulation for decades prior to its enactment. Since 2017, in addition to refillable beer containers and alcohol containers, the BRCCC has been running a program that formally includes the collection of all secondary packaging associated with those containers as well as imported beer and ciders. BRCCC provides a return and recycle option for all associated packaging related to every product sold to customers.

BDL also sells and facilitates the collection and recycling of beer kegs. In 2019, BDL sold approximately 237,455 kegs primarily to licensed establishments. The efficiency of the closed loop collection system offered by BDL ensures similar results for kegs as other stewardship program containers. In 2019, the return rates for these container types were in excess of $101 \%$. This volume is equivalent to over 3.4 million cases of packaged beer ${ }^{7}$, which translates to approximately 539 tonnes of aluminum or 10,810 tonnes of glass bottles ${ }^{8}$.

Table 6 provides estimated values of program diversion by regional district. As BRCCC does not compile sales of collection data by Regional District, the values for diversion estimates were assumed to follow the per capita distribution for each district. Population distribution estimates for 2019 were obtained from the BC Stats website ${ }^{9}$.

[^3]Table 6-2019 Program Diversion Estimates by Regional District (Based on Collected Materials)

| Regional District | $\begin{aligned} & \text { Aluminum } \\ & \text { Units } \\ & (000) \end{aligned}$ | Aluminum Weight (Tonnes) | Glass Units (000) | Glass <br> Weight (Tonnes) | Total Units (000) | Total Schedule 1 Weight (Tonnes) | Secondary Packaging Weight (Tonnes) | Total Weight (Tonnes) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alberni-Clayoquot | 3,934 | 54 | 293 | 78 | 4,227 | 132 | 20 | 152 |
| Bulkley-Nechako | 4,677 | 64 | 349 | 92 | 5,026 | 157 | 24 | 180 |
| Capital | 49,416 | 679 | 3,682 | 974 | 53,098 | 1,653 | 252 | 1,905 |
| Cariboo | 7,729 | 106 | 576 | 152 | 8,305 | 259 | 39 | 298 |
| Central Coast | 423 | 6 | 32 | 8 | 455 | 14 | 2 | 16 |
| Central Kootenay | 7,475 | 103 | 557 | 147 | 8,032 | 250 | 38 | 288 |
| Central Okanagan | 25,648 | 353 | 1,911 | 506 | 27,559 | 858 | 131 | 989 |
| Columbia-Shuswap | 6,591 | 91 | 491 | 130 | 7,082 | 221 | 34 | 254 |
| Comox | 8,575 | 118 | 639 | 169 | 9,214 | 287 | 44 | 331 |
| Cowichan Valley | 10,680 | 147 | 796 | 211 | 11,475 | 357 | 54 | 412 |
| East Kootenay | 7,639 | 105 | 569 | 151 | 8,208 | 256 | 39 | 294 |
| Fraser Valley | 39,146 | 538 | 2,917 | 772 | 42,063 | 1,310 | 199 | 1,509 |
| Fraser-Fort George | 12,208 | 168 | 910 | 241 | 13,118 | 408 | 62 | 471 |
| Metro Vancouver | 317,782 | 4,368 | 23,677 | 6,265 | 341,459 | 10,633 | 1,618 | 12,251 |
| Kitimat-Stikine | 4,709 | 65 | 351 | 93 | 5,060 | 158 | 24 | 182 |
| Kootenay-Boundary | 3,948 | 54 | 294 | 78 | 4,242 | 132 | 20 | 152 |
| Mount Waddington | 1,378 | 19 | 103 | 27 | 1,480 | 46 | 7 | 53 |
| Nanaimo | 20,068 | 276 | 1,495 | 396 | 21,563 | 671 | 102 | 774 |
| North Okanagan | 10,729 | 147 | 799 | 212 | 11,528 | 359 | 55 | 414 |
| Northern Rockies | 585 | 8 | 44 | 12 | 629 | 20 | 3 | 23 |
| Okanagan-Similkameen | 10,518 | 145 | 784 | 207 | 11,301 | 352 | 54 | 405 |
| Peace River | 7,897 | 109 | 588 | 156 | 8,485 | 264 | 40 | 304 |
| qathet | 2,492 | 34 | 186 | 49 | 2,677 | 83 | 13 | 96 |
| North Coast | 2,279 | 31 | 170 | 45 | 2,449 | 76 | 12 | 88 |
| Squamish-Lillooet | 5,474 | 75 | 408 | 108 | 5,881 | 183 | 28 | 211 |
| Strathcona | 5,796 | 80 | 432 | 114 | 6,228 | 194 | 30 | 223 |
| Sunshine Coast | 3,756 | 52 | 280 | 74 | 4,036 | 126 | 19 | 145 |
| Thompson-Nicola | 17,250 | 237 | 1,285 | 340 | 18,536 | 577 | 88 | 665 |
| British Columbia | 598,801 | 8,231 | 44,615 | 11,805 | 643,417 | 20,036 | 3,049 | 23,085 |

## Summary of Deposits, Refunds, Revenues and Expenditures

Costs associated with the collection systems are managed by BRCCC, which operates on a non-profit basis.

## a. Refillable Bottles

In the case of refillable bottles, manufacturers are assessed a per-dozen fee for the collection, sorting and return of containers based on projected and audited costs. Costs associated with cleaning and reusing refillable bottles are borne by the manufacturer.

## b. Recycled Cans

BRCCC retains unredeemed deposits with respect to can sales and BRCCC retains revenues from aluminum material sales to offset costs related to: administration, transportation, collection, sorting fees and infrastructure. In 2019, there was no additional container cost recovery charged to brewers for cans under the program. BDL, on behalf of BRCCC, has also entered into service agreements with several container return depots for collection and sorting services. BRCCC revenues collected from both cans and bottles pay return location partners for the collection, sorting and return of BRCCC containers.

In the case of the Liquor Distribution Branch, BRCCC continues to operate under an agreement with the agency to pay it handling fees for each container collected from its stores. Licensee retail stores that sign up as contracted collection partners are also paid a handling fee for each container collected.

In accordance with the Recycling Regulation, Table 7 outlines the deposits received and paid for each container type.

Table 72019 Deposit Summary

|  | Cans | Industry Standard Bottles (ISB) | Non-ISB Refillable Bottles | Total |
| :---: | :---: | :---: | :---: | :---: |
| Deposits Received $(\$)$ | $\$ 68,134,561$ | $\$ 3,088,067$ | $\$ 1,799,309$ | $\$ 73,021,937$ |
| Refunds Paid $(\$)$ | $\$ 59,923,035$ | $\$ 2,985,565$ | $\$ 1,489,188$ | $\$ 64,397,788$ |

Note: The figures are in accordance with an audit of B.C. Brewers' Recycled Container Collection Council Financial Statements and audit procedures in connection with Sections $8(2)(b),(d)$, and (e) of the Recycling Regulation and deposits received and refunds paid conducted by KPMG LLP.

## Secondary Packaging

Costs related to the recovery of secondary packaging are assessed to program brewers based on a per tonne rate set annually which is intended to cover any costs related to the collection of secondary packaging. The efficient collection method in place for decades assists in keeping the program costs relatively low.

## 8. Plan Performance

| Target | 2018 Performance | Strategies for Improvement |
| :---: | :---: | :---: |
| 87.5\% recovery/collection rate in each container category | - 101.86\% return rate for refillable industry standard bottles (ISB) <br> - $86.41 \%$ return rate for refillable proprietary glass bottles <br> - $90.38 \%$ return rate for aluminum cans <br> - $90.76 \%$ return rate overall | - Improve strategy for collection of refillable proprietary glass bottles <br> - Continue to communicate with brewers and collection network regarding categorization of containers |
| 75\% Recovery/Collection Rate of secondary packaging material | - $78.32 \%$ recovery/collection rate attained for secondary packaging | N/A |
| Accessibility Targets: Containers <br> - Improve consumer access to BRCCC return locations to 385 ( 305 LRS, 80 depots) with at least 1 contracted return location in each regional district | - 183 return locations (112 LRS, 71 depots) <br> - 26 of 28 regional districts with at least 1 contracted return location | - Reviewing current coverage levels to identify key areas for depot expansion <br> - Perform additional drive time studies to identify potential areas that require increased coverage |
| Accessibility Targets: Secondary Packaging <br> - 1,152 total return locations | - 1,140 total return locations in the BRCCC network <br> - Materials received from Recycle BC are collected through the Recycle BC network which includes additional collection locations not included in the 1,140 reported in the BRCCC network | - Add incremental collection sites to the BRCCC collection network in potential areas that require increased coverage |
| Accessibility Targets: Drive Time <br> - $80 \%$ of population within 10 minute drive of BRCCC authorized return location | - $80 \%$ of population is within a 10 minute drive of a BRCCC authorized return location | N/A |
| Consumer Awareness: <br> Promotion/Education Initiatives <br> - 3 net new consumer promotion/education initiatives throughout the Schedule $1 \& 5$ plans | - At least one net new consumer promotion/education initiative rolled out in each program year | - Continue to promote the collection system and educate the public to increase awareness |
| Consumer Awareness: Level of Consumer Awareness <br> - $60 \%$ level of consumer awareness on consumer awareness survey | - 61\% consumer awareness survey result | N/A |
| Pollution Prevention Hierarchy/ Product Life Cycle Targets: <br> $100 \%$ of collected materials for reuse or to recycling commodity markets <br> Secondary Packaging: <br> - Report in accordance with PHP <br> - Track end fate of materials in annual stewardship audit | - Aluminum: $100 \%$ Processed for metal recovery <br> - Refillable Glass Bottles: <br> - $99 \%$ of material shipped, sent to brewers for reuse ( $100 \%$ of which were intended to be refilled) <br> - $1 \%$ of material shipped, sent directly to a glass recycler for recycling by BDL <br> - $100 \%$ of material reported as collected, sent to a recycler for recycling | - Continue to ensure service providers meet processing standards <br> - Work with brewers and other collection locations to strengthen reporting and tracking systems |

In closing, BRCCC would like to thank all of our partners and the residents of British Columbia for making the programs successful and for ensuring that container reuse is possible in the province. While the impacts of the COVID-19 crisis remain uncertain at this time, BRCCC looks forward to continued success in the 2020 program and strives to heighten consumer awareness of the packaging recovery system.


[^0]:    Submitted to: Executive Director
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[^1]:    ${ }^{1}$ See Zero Waste SA: South Australia's Waste Strategy 2011-2015. 2011 Report
    ${ }^{2}$ PE Americas. Life Cycle Impact Assessment of Aluminum Beverage Cans. 2010 Report.
    ${ }^{3}$ Results of Recovered Containers reviewed by KPMG LLP
    ${ }^{4}$ https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator

[^2]:    ${ }^{5}$ Based on Vancouver 2019 tipping fee of $\$ 108$ per tonne for waste disposal.
    http://www.metrovancouver.org/boards/Bylaws1/GVSDD_Bylaw_323_Amendment_306.pdf

[^3]:    ${ }^{6}$ Data reviewed by KPMG LLP. Sales were provided by the BC Liquor Distribution Branch (LDB)
    ${ }^{7}$ Assumed 58.67L Kegs and $12 \times 341$ glass bottles as a package
    ${ }^{8}$ Assumed 7lbs/case of glass bottles and 1lbs per 33355 ml cans
    ${ }^{9}$ Source: https://www2.gov.bc.ca/gov/content/data/statistics/people-population-community/population/population-estimates June 30, 2020

