

Canadian Battery Association

Annual Report to the Director

2016 Calendar Year

Submitted to: Director, Extended Producer Responsibility Programs
PO Box 9341, STN PROV GOVT
Victoria, BC V8W 9M1

Prepared by: Colin McKean, Executive Director
Canadian Battery Association
Mailing Address: 1415 Broad Street
Victoria, BC, V8W 2B2
250-216-3664

June 30, 2017

2016 Annual Report Summary

Products within plan	All lead-acid batteries sold in British Columbia
Program website	www.canadianbatteryassociation.ca and www.recyclemybattery.ca

Recycling Regulation Reference	Topic	Summary (5-bullet maximum)
Part 2, section 8(2)(a)	Public Education Materials and Strategies	<ul style="list-style-type: none"> • Phone and web based recycling information through www.recyclemybattery.ca and RCBC's Recycling Hotline, Recyclepedia and Recyclepedia for Smart Phones. • Development of National Phone App for Return Collection Facilities (RCFs) for consumers. Download the App at www.recyclemybattery.ca
Part 2, section 8(2)(b)	Collection System and Facilities	<ul style="list-style-type: none"> • CBA members visit thousands of retailers and IC&I customers on a weekly to monthly basis as part of their reverse distribution system of dropping off new and collecting used lead-acid batteries (LABs). This is the principle mechanism of the collection of lead-acid batteries; • Distributor core charge of \$15 on most automotive batteries to promote the recovery of LABs by the distributor; • An increase of 7 Return Collection Facilities (RCFs) to 185 for consumers (Appendix 1) plus 21 warehouse operations for industrial batteries (Appendix 2). • Calculated average distance to RCFs for different sized communities: <ul style="list-style-type: none"> ○ 2.2km for Communities - >30,000 ○ 5.6km for Communities - 4,000 to 30,000 ○ 29.2km for Communities - 1,000 to 4,000
Part 2, section 8(2)(c)	Product Environmental Impact Reduction, Reusability and Recyclability	<ul style="list-style-type: none"> • Implemented <i>The Management of Recyclable Lead-Acid Batteries - Collection, Storage & Transportation in Canada</i> in most of BC's 21 warehouse locations; • Worked with MoE to revise the definition of "hazardous waste" to ensure that reuse options for used LABs are available to CBA members; • Worked with other Stewardship Agencies to develop a program to recover LABs from BC's remote and First Nations communities.
Part 2, section 8(2)(d)	Pollution Prevention Hierarchy and Product / Component Management	<ul style="list-style-type: none"> • all LABs collected by CBA members were sent to permitted smelters for recycling – 100% compliance with Basel Convention regarding the shipment of hazardous waste to non-OECD countries; • 99% of lead in LABs recovered in smelting process. 1% of dross is privately landfilled; • 100% of electrolyte (H₂SO₄) is reused in other production processes; • 30% of plastic battery casings used for energy recovery and creating anoxic conditions during the smelting process; • 70% of plastic LAB casings recycled into new LAB casings.

Canadian Battery Association 2016 Report to Director, Waste Management

Part 2, section 8(2)(e)	Product Sold and Collected and Recovery Rate	<ul style="list-style-type: none"> • 24.7M kg of LABs sold in BC in 2016 by CBA members– >95% market share (note – sales from one CBA member was estimated from previous data – the estimates were sales of 0.8M kgs of industrial batteries). • 23.5M kg of LABs recovered by CBA members for overall recovery rate of 95.0% of CBA sales. 																																																																																							
Part 2, section 8(2)(e.1)	Recovery by Regional District	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Name</th> <th style="text-align: center;">Population</th> <th style="text-align: center;">2016 kg</th> </tr> </thead> <tbody> <tr><td>Alberni-Clayoquot</td><td style="text-align: right;">31,542</td><td style="text-align: right;">145,061</td></tr> <tr><td>Bulkley-Nechako</td><td style="text-align: right;">38,860</td><td style="text-align: right;">178,716</td></tr> <tr><td>Capital</td><td style="text-align: right;">367,572</td><td style="text-align: right;">1,690,451</td></tr> <tr><td>Cariboo</td><td style="text-align: right;">65,047</td><td style="text-align: right;">299,149</td></tr> <tr><td>Central Coast</td><td style="text-align: right;">3,118</td><td style="text-align: right;">14,340</td></tr> <tr><td>Central Kootenay</td><td style="text-align: right;">59,756</td><td style="text-align: right;">274,816</td></tr> <tr><td>Central Okanagan</td><td style="text-align: right;">184,411</td><td style="text-align: right;">848,100</td></tr> <tr><td>Columbia-Shuswap</td><td style="text-align: right;">53,713</td><td style="text-align: right;">247,024</td></tr> <tr><td>Comox Valley</td><td style="text-align: right;">64,084</td><td style="text-align: right;">294,720</td></tr> <tr><td>Cowichan Valley RD</td><td style="text-align: right;">81,689</td><td style="text-align: right;">375,685</td></tr> <tr><td>East Kootenay</td><td style="text-align: right;">59,954</td><td style="text-align: right;">275,726</td></tr> <tr><td>Fraser Valley</td><td style="text-align: right;">280,210</td><td style="text-align: right;">1,288,676</td></tr> <tr><td>Fraser-Fort George</td><td style="text-align: right;">95,652</td><td style="text-align: right;">439,900</td></tr> <tr><td>Metro Vancouver</td><td style="text-align: right;">2,318,526</td><td style="text-align: right;">10,662,823</td></tr> <tr><td>Kitimat-Stikine</td><td style="text-align: right;">39,380</td><td style="text-align: right;">181,107</td></tr> <tr><td>Kootenay-Boundary</td><td style="text-align: right;">32,111</td><td style="text-align: right;">147,677</td></tr> <tr><td>Mount Waddington</td><td style="text-align: right;">12,042</td><td style="text-align: right;">55,381</td></tr> <tr><td>Nanaimo</td><td style="text-align: right;">147,866</td><td style="text-align: right;">680,031</td></tr> <tr><td>North Okanagan</td><td style="text-align: right;">83,179</td><td style="text-align: right;">382,537</td></tr> <tr><td>Northern Rockies</td><td style="text-align: right;">6,003</td><td style="text-align: right;">27,608</td></tr> <tr><td>Okanagan-Similkameen</td><td style="text-align: right;">83,337</td><td style="text-align: right;">383,264</td></tr> <tr><td>Peace River</td><td style="text-align: right;">62,244</td><td style="text-align: right;">286,258</td></tr> <tr><td>Powell River</td><td style="text-align: right;">20,207</td><td style="text-align: right;">92,931</td></tr> <tr><td>Skeena-Queen Charlotte</td><td style="text-align: right;">19,438</td><td style="text-align: right;">89,395</td></tr> <tr><td>Squamish-Lillooet</td><td style="text-align: right;">39,209</td><td style="text-align: right;">180,321</td></tr> <tr><td>Strathcona</td><td style="text-align: right;">44,189</td><td style="text-align: right;">203,224</td></tr> <tr><td>Sunshine Coast</td><td style="text-align: right;">29,551</td><td style="text-align: right;">135,904</td></tr> <tr><td>Thompson-Nicola</td><td style="text-align: right;">131,675</td><td style="text-align: right;">605,569</td></tr> </tbody> </table>	Name	Population	2016 kg	Alberni-Clayoquot	31,542	145,061	Bulkley-Nechako	38,860	178,716	Capital	367,572	1,690,451	Cariboo	65,047	299,149	Central Coast	3,118	14,340	Central Kootenay	59,756	274,816	Central Okanagan	184,411	848,100	Columbia-Shuswap	53,713	247,024	Comox Valley	64,084	294,720	Cowichan Valley RD	81,689	375,685	East Kootenay	59,954	275,726	Fraser Valley	280,210	1,288,676	Fraser-Fort George	95,652	439,900	Metro Vancouver	2,318,526	10,662,823	Kitimat-Stikine	39,380	181,107	Kootenay-Boundary	32,111	147,677	Mount Waddington	12,042	55,381	Nanaimo	147,866	680,031	North Okanagan	83,179	382,537	Northern Rockies	6,003	27,608	Okanagan-Similkameen	83,337	383,264	Peace River	62,244	286,258	Powell River	20,207	92,931	Skeena-Queen Charlotte	19,438	89,395	Squamish-Lillooet	39,209	180,321	Strathcona	44,189	203,224	Sunshine Coast	29,551	135,904	Thompson-Nicola	131,675	605,569
Name	Population	2016 kg																																																																																							
Alberni-Clayoquot	31,542	145,061																																																																																							
Bulkley-Nechako	38,860	178,716																																																																																							
Capital	367,572	1,690,451																																																																																							
Cariboo	65,047	299,149																																																																																							
Central Coast	3,118	14,340																																																																																							
Central Kootenay	59,756	274,816																																																																																							
Central Okanagan	184,411	848,100																																																																																							
Columbia-Shuswap	53,713	247,024																																																																																							
Comox Valley	64,084	294,720																																																																																							
Cowichan Valley RD	81,689	375,685																																																																																							
East Kootenay	59,954	275,726																																																																																							
Fraser Valley	280,210	1,288,676																																																																																							
Fraser-Fort George	95,652	439,900																																																																																							
Metro Vancouver	2,318,526	10,662,823																																																																																							
Kitimat-Stikine	39,380	181,107																																																																																							
Kootenay-Boundary	32,111	147,677																																																																																							
Mount Waddington	12,042	55,381																																																																																							
Nanaimo	147,866	680,031																																																																																							
North Okanagan	83,179	382,537																																																																																							
Northern Rockies	6,003	27,608																																																																																							
Okanagan-Similkameen	83,337	383,264																																																																																							
Peace River	62,244	286,258																																																																																							
Powell River	20,207	92,931																																																																																							
Skeena-Queen Charlotte	19,438	89,395																																																																																							
Squamish-Lillooet	39,209	180,321																																																																																							
Strathcona	44,189	203,224																																																																																							
Sunshine Coast	29,551	135,904																																																																																							
Thompson-Nicola	131,675	605,569																																																																																							
Part 2, section 8(2)(f)	Summary of Deposits, Refunds, Revenues and Expenses	The CBA does not charge an Eco-Fee to the consumer.																																																																																							

Canadian Battery Association 2016 Report to Director, Waste Management

Comparison of Key Performance Targets		
Priority Stewardship Plan Targets	Performance	Strategies for Improvement
1. Awareness: No Target	<p>69% of All Respondents*</p> <p>78% of Respondents that have Lead-Acid Batteries*</p> <p>80% of Respondents that have Unwanted Lead-Acid Batteries*</p> <p>*2016 Survey by Insights West</p>	<p>Continue to use RBC’s Hotline and Recyclepedia as the primary tool for consumer outreach and information.</p> <p>Developed National Phone App for consumers</p> <p>Will continue to participate in the SABC Consumer Awareness Study. The next study is scheduled for 2018.</p>
<p>2. Accessibility:</p> <ul style="list-style-type: none"> - 150 RCFs; - 30 minutes in urban* - 45 minutes in rural** - No Target for small*** <p>* Urban: >30,000 ** Rural <30,000 - >4,000 ***Small <4,000 - >1,000</p>	<ul style="list-style-type: none"> - 185 RCF for public drop off (Appendix 1)– an increase of 6 new locations - recyclemybattery.ca - Time to RCF based on Average Distance and estimated driving speeds <ul style="list-style-type: none"> Urban: 4.4 min -- 30km/hr; Rural: 7.5 min -- 45km/hr; Small: 29 min -- 60km/hr. - 21 warehouse operations for IC&I sector (Appendix 2). 	<p>Serviced and underserved communities were identified in 2016.</p> <p>Add new RCFs in rural underserved communities in 2017.</p> <p>Continue to work with other Stewardship Agencies to develop recycling programs for small and remote communities.</p>
3. Recovery Rate: 95%	<ul style="list-style-type: none"> - 95.0% recovery for all CBA LAB sales broken down by type: <ul style="list-style-type: none"> - 100.5% recovery for automotive type batteries sold; - 101.1% recovery of motive batteries; - 8.0% recovery of stationary batteries. 	<ul style="list-style-type: none"> - continue to obtain the private recycling sector to provide their data to the CBA. Two private battery recyclers were added to the CBA’s 2016 data base and the data base has become very comprehensive and robust. - CBA Members that sell industrial batteries are becoming more aggressive with their take-back programs with customers (note that industrial batteries do not have a “core charge”).

Canadian Battery Association 2016 Report to Director, Waste Management

Comparison of Key Performance Targets		
Priority Stewardship Plan Targets	Performance	Strategies for Improvement
4. Generation, Storage and Transportation – 100% compliance with Federal and Provincial laws.	<ul style="list-style-type: none"> - developed compliance and emergency response manual to ensure compliance with Provincial Hazardous Waste Regulations and Federal Transportation of Dangerous Goods Regulations. - all LABs collected by CBA members were sent to permitted smelters for recycling. - 100% compliance with Basel Convention regarding the shipment of hazardous waste to non-OECD countries. 	<ul style="list-style-type: none"> - CBA members now have up to date BC Generator Numbers (BCG#); - the MoE has clarified when the lead-acid battery becomes a waste hazardous waste promoting the refurbishing of used lead-acid batteries and that information has been circulated to CBA Members.

Appendix 1: Return Collection Facilities for Consumer-Type Lead-Acid Batteries

Facility	Address	City	Postal Code	Telephone
Kal Tire	360 Taylor Avenue	100 Mile House	V0K 2E0	250-395-2496
Canadian Tire	32513 South Fraser Way	Abbotsford	V2T 4N5	604-870-4132
Edmonds Batteries	33177 South Fraser Way	Abbotsford	V2S 2B1	604.852.8774
Kal Tire	975 Coumts Way	Abbotsford	V2S 7M2	604-853-5981
Kal Tire	31716 South Fraser Way	Abbotsford	V2T 1T9	604-850-6772
Armstrong Bottle Depot	3730 Pleasant Valley Blvd	Armstrong	V0E 1B0	250-546-2466
Gilbert Parts Depot	3155 Smith Drive	Armstrong	V0E 1B1	250-546-3167
Kal Tire	48075 Trans Canada Hwy	Boston Bar	V0K 1C0	604-867-9614
Canadian Energy	114 - 4238 Lozells Avenue	Burnaby	V5A 0C4	604-420-7737
Canadian Tire	7200 Market Crossing	Burnaby	V5J 0A2	604-451-5888
Edmonds Batteries	7471 Edmonds Street	Burnaby	V3N 1B3	604-525-8144
Kal Tire	4860 Bennett Street	Burnaby	V5H 2G9	604-433-6928
Kal Tire Truck Centre	1390 Boundary Road	Burnaby	V5K 4T6	604-291-2804
Polar Battery	1258 Boundary Road	Burnaby	V5K 4T6	604-294-1891
Kal Tire	774 Highway #16 West	Burns Lake	V0J 1E0	250-692-7542
Kal Tire	1330 Cariboo Highway	Cache Creek	V0K 1H0	250-457-9333
Canadian Tire	1444 Island Highway	Campbell River	V9W 8C9	250-286-0188
Kal Tire	1581 - 15th Avenue	Campbell River	V9W 4J4	250-287-8489
Canadian Tire	2000 Columbia Avenue	Castlegar	V1N 2W7	250-365-7737
Kal Tire	4280 Minto Road	Castlegar	V1N 4C1	250-365-3311
Kal Tire	2107 Keating X Road	Central Saanich	V8M 2A5	250-652-6641
Kal Tire	4809 South Access Road	Chetwynd	V0C 1J0	250-788-2067
Canadian Tire	7560 Vedder Road	Chilliwack	V2R 4E8	604-858-9055
Kal Tire	44408 Yale Road West	Chilliwack	V2P 6J4	604-795-3388
Kal Tire	45585 Luckakuck Way	Chilliwack	V2R 1A1	604-824-2859
Kal Tire	511 East Yellowhead Hwy	Clearwater	V0E 1N0	250-674-3388
Kal Tire	5621 180th Street	Cloverdale	V3S 5M6	604-576-8255
Gilbert Parts Depot	1220A Waddington Drive	Coldstream	V1T 8T3	250-545-9440
Kal Tire	1460 Kal Lake Road	Coldstream	V1T 1M1	250-545-2729
Interstate Batteries	1651 Old Island Hwy	Colwood	V9B 1H9	250-391-9748
Canadian Tire	1200 Seguin Avenue	Coquitlam	V3K 6W8	604-527-8828
Kal Tire	641 Loughheed Hwy	Coquitlam	V3K 3S5	604-931-6241
Kal Tire	1851 Loughheed Highway	Coquitlam	V3K 3T7	604-524-1166
Kal Tire	2573 Runnel Drive	Coquitlam	V3E 1S3	604-464-7752
Canadian Tire	2801 Cliffe Avenue	Courtenay	V9N 2L8	250-338-0101
Kal Tire	2215 Cliffe Avenue	Courtenay	V9N 2L5	250-338-5411
Canadian Tire	1100 Victoria Avenue N.	Cranbrook	V1C 6G7	250-489-3300
Kal Tire	1396 Theatre Road	Cranbrook	V1C 7G1	250-426-4258
Kal Tire	1816 Canyon Street	Creston	V0B 1G0	250-428-5396
Canadian Tire	11628 - 8th Street	Dawson Creek	V1G 4R7	250-782-5451
Kal Tire	800 - 107 Avenue	Dawson Creek	V1G 2R1	250-782-5544
Kal Tire	969 Cliveden Avenue	Delta North	V3M 5R6	604-526-1854
Magnacharge Batteries	1279 Derwent Way	Delta North	V3M 5V9	604-525-0391
Canadian Tire	2724 Beverley Street	Duncan	V9L 5C7	250-748-0161

Canadian Battery Association 2016 Report to Director, Waste Management

Kal Tire	5295 Trans Canada Hwy	Duncan	V9L 5J2	250-746-9815
Kal Tire - Elko Tire	5385B Highway 3	Elko	V0B 1J0	250-529-7433
Gilbert Parts Depot	513 Hubert Avenue	Enderby	V0E 1V0	250-838-6820
Kal Tire - Tony's Tire Ltd	606 Old Vernon Road	Enderby	V0E 1V0	250-838-7226
Canadian Energy	791 Cave Street	Esquimalt	V9A 5T6	250-361-3933
CSRD - Transfer Station	2830 Wataskiwin(Dump) R	Falkland		
Canadian Tire	1791A 9th Avenue	Fernie	V0B 1M0	250-423-4222
Kal Tire	4504 - 55 Street	Fort Nelson	V0C 1R0	250-774-7030
Kal Tire	206 Douglas Avenue	Fort St. James	V0J 1P0	250-996-8266
Canadian Tire	9820 93rd Avenue	Fort St. John	V1J 6J8	250-787-1142
Kal Tire	10107 116th Street	Fort St. John	V1J 4H6	250-785-5626
By-Pass Auto Recycling	1178 Stewart Road	Gibsons	V0N 1V0	604-886-3880
CSRD - Transfer Station	3125 McTavish Road	Glenemma		
CSRD - Landfill	350 Golden-Donald Upper	Golden		
Kal Tire	1002 10 Avenue North	Golden	V0A 1H2	250-344-5213
Kal Tire	2691 Highway 3	Grand Forks	V0H 1H0	250-442-2141
Kal Tire	2420 Millstream Road	Highlands	V9B 3R3	250-391-6132
Kal Tire	595 Raab Street	Hope	V0X 1L4	604-869-2426
Kal Tire	2289 Tweedie	Houston	V0J 1Z0	250-845-7341
Canadian Tire	4862 Athalmer Road	Invermere	V0A 1K3	250-342-4433
Canadian Energy	1440 Battle Street	Kamloops	V2C 2N8	250-374-8914
Canadian Tire	944 8th Street	Kamloops	V2B 2X5	250-376-4134
Canadian Tire	1441 Hillside Drive	Kamloops	V2E 1A9	250-374-9747
Kal Tire	825 Notre Dame Drive	Kamloops	V2C 5N8	250-372-3302
Kal Tire Auto Centre	1032 Victoria Street	Kamloops	V2C 2C4	250-374-6248
Kal Tire Truck Centre	788 Mount Paul Way	Kamloops	V2H 1B5	250-374-6258
Canadian Energy	1891 Springfield Road	Kelowna	V1V 5V5	250-765-6120
Canadian Tire	1655 Leckie Road	Kelowna	V1X 6E4	250-860-5744
East Penn Batteries	1505 Hardy Street	Kelowna	V1Y 7W9	604-455-0355
Interstate Batteries	311 Banks Road	Kelowna	V1X 6A1	250-860-3444
Kal Tire	2233 Leckie Road	Kelowna	V1X 6Y5	250-860-5977
Kal Tire	3482 Highway 97 North	Kelowna	V1X 5C2	250-765-7181
Kal Tire	1997 Kirschner Road	Kelowna	V1Y 4N7	250-861-4558
The Battery Doctors	1972 Windsor Road	Kelowna	V1Y 4R5	250-860-2866
Anchor Tire Sales Ltd.	236 Enterprise Avenue	Kitimat	V8C 2C7	250-632-2151
Kal Tire	4826 Elliot Street	Ladner	V4K 2X8	604-946-6133
Canadian Tire	855 Attree Avenue	Langford	V9B 4V5	250-474-2291
Kal Tire - Sooke Road	2681 Sooke Road	Langford	V9B 1Y5	250-474-6333
Canadian Tire	6312 200th Street	Langley	V2Y 1A1	604-532-4411
East Penn Batteries	26988 56th Ave	Langley	V4W 1N9	604-455-0355
Edmonds Batteries	101 20131 Industrial Ave	Langley	V3A 4K6	604-534-7995
Interstate Batteries	20148 102nd Ave	Langley	V1M 4B4	604-888-3446
Kal Tire	20520 Langley By-Pass	Langley	V3A 6K8	604-533-3905
Kal Tire	19705 Fraser Highway	Langley	V3A 7E9	604-530-7571
Infinity Trading Company	6249 205th St	Langley Township	V2Y 1N7	604-530-9992
Kal Tire	20140 98 Avenue	Langley Township	V1M 3G1	604-882-3911
Kal Tire	249 Main Street	Lillooet	V0K 1V0	250-256-4131
Gilbert Parts Depot	2111 Shuswap Avenue	Lumby	V0E 2G0	250-547-2363

Canadian Battery Association 2016 Report to Director, Waste Management

Kal Tire	1931 Shuswap Avenue	Lumby	V0E 2G0	250-547-9251
Kal Tire	1107 Mill Road	Mackenzie	V0J 2C0	250-997-6521
Kal Tire	20803 Lougheed Highway	Maple Ridge	V2X 2R2	604-466-9694
Canadian Tire	11969 200th Street	Maple Ridge	V2X 3M7	604-460-4664
Canadian Tire	2761 Forksdale Avenue	Merritt	V1K 1R9	250-378-1818
Kal Tire	2601 Nicola Avenue	Merritt	V1K 1H3	250-378-5141
Canadian Tire	32545 London Avenue	Mission	V2V 6M7	604-826-5840
Kal Tire	95 6th Avenue NW	Nakusp	V0G 1R0	250-265-4155
Canadian Tire	4585 Uplands Drive	Nanaimo	V9T 6M8	250-585-8045
Kal Tire	2294 McCullough Road	Nanaimo	V9S 4M8	250-756-3611
Kal Tire - Edwards Tire	837 Old Victoria Road	Nanaimo	V9R 5Z9	250-754-4456
Kal Tire	6590 Island Highway N	Nanaimo	V9V 1K8	250-390-4211
Kal Tire	2800 Norwell Drive	Nanaimo	V9T 1X3	250-758-9128
Kal Tire	76 Baker Street	Nelson	V1L 4G8	250-354-4494
Canadian Tire	1350 Main Street	North Vancouver	V7J 1C6	604-982-9100
Kal Tire	440 Brooksbank Avenue	North Vancouver	V7J 2C2	604-985-4221
Kal Tire	1830 Marine Drive	North Vancouver	V7P 1V4	604-985-8294
Canadian Tire	34017 Highway 97	Oliver	V0H1T0	250-498-8473
Canadian Tire	960 Railway Street	Penticton	V2A 8N2	250-492-3576
Kal Tire	1780 Dartmouth Road	Penticton	V2A 4B9	250-493-0414
Canadian Tire	3550 Johnston Road	Port Alberni	V9Y 7W8	250-720-0085
Kal Tire - Pearson Tire Ltd.	4938 Dunbar Street	Port Alberni	V9Y 3G7	250-724-4465
Canadian Tire	2850 Shaughnessy Street	Port Coquitlam	V3C 6K5	604-468-6951
Boris Mobile Mechanic	7050 Byng Road	Port Hardy	V0N 2P0	250-949-6416
Kal Tire	1680 Campbell Way	Port McNeill	V0N 2R0	250-956-4407
Canadian Tire	4720 Joyce Avenue	Powell River	V8A 3B5	604-485-4649
Kal Tire - Aero Powell River	7327 Duncan Street	Powell River	V8A 1W5	604-485-2711
Canadian Energy	541 1st Avenue	Prince George	V2L 2Y2	250-564-1551
Canadian Tire	5008 Domano Blvd.	Prince George	V2N 4V8	250-964-8258
Kal Tire	1073 West Central Street	Prince George	V2M 3C9	250-562-2105
Kal Tire	750 Boundary Road	Prince George	V2N 5T2	250-561-1525
Seaport Tire Ltd	943 Chamberlin Avenue	Prince Rupert	V8J 4J4	250-624-8550
Kal Tire	307 Culbertson Way	Princeton	V0X 1W0	250-295-7171
Canadian Tire	570 Newman Road	Quesnel	V2J 6Z8	250-747-5274
Kal Tire	1949 Cariboo Highway 97	Quesnel	V2J 3P2	250-992-6534
CSR – Landfill	330 Westside Road	Revelstoke		
Canadian Tire	35010 No. 3 Road	Richmond	V6X 2C1	604-273-2939
Canadian Tire	11388 Steveston Highway	Richmond	V6X 2C2	604-271-6651
Exide Technologies	14480 Knox Way	Richmond	V6V 2Z5	604-273-9779
Kal Tire	2633 No. 5 Road	Richmond	V6X 2S8	604-278-9181
Kal Tire - No 3 Rd	6551 No. 3 Road	Richmond	V6Y 2B7	604-207-1203
RME Energy Ltd	3155 21331 Gordon Way	Richmond	V6W 1J9	604-241-4470
Sota Battery Canada Ltd	1137-11871 Horseshoe W	Richmond	V7A 5H5	604-271-9727
Canadian Tire	801 Royal Oak Drive	Saanich	V8X 4V1	250-727-6561
Canadian Tire	3993 Cedar Hill Road	Saanich	V8N 4M9	250-721-1125
Scrap King Autowreckers	1660 Airport Road	Salmo	V0G 1Z0	888-357-2091
Canadian Tire	2090 10th Street S.W.	Salmon Arm	V1E 4M2	250-832-9600
Kal Tire	1160 TC Highway 1 SW	Salmon Arm	V1E 4P2	250-832-6077

Canadian Battery Association 2016 Report to Director, Waste Management

CSRD - Transfer Station	3508 Squilax-Anglemont R	Scotch Creek		
Canadian Tire	4380 Sunshine Coast Hwy	Sechelt	V0N 3A0	604-885-6611
Kal Tire - Wharf Tire	5633 Wharf Road	Sechelt	V0N 3A0	604-885-7927
CSRD - Transfer Station	950 2 Mile Road	Sicamous		
East Penn Batteries	2050 Mills Road	Sidney	V8L 5X4	250-812-1219
CSRD - Transfer Station	2281 Skimikin Lake Road	Skimikin		
Canadian Tire	3221 Highway #16 & 15 th	Smithers	V0J 2N0	250-847-3117
Kal Tire	4320 Highway #16 West	Smithers	V0J 2N0	250-847-2665
RCU Auto Parts	2374 Sooke River Road	Sooke	V9Z 0X6	250-642-1524
Sooke Total Auto Recycling	6228 Sooke Road	Sooke	V9Z 0G7	250-642-4206
Kal Tire	601 Sparwood Drive	Sparwood	V0B 2G0	250-425-2562
Canadian Tire	1851 Mamquam Road	Squamish	V0N 3G0	604-898-2227
Kal Tire	1117 Industrial Way	Squamish	V8B 0H1	604-892-1070
Canadian Tire	7878 120th Street	Surrey	V3W 3N2	604-591-3914
Kal Tire	13443 72nd Ave.	Surrey	V3W 2N7	604-597-8826
Kal Tire - Fraser Hwy	16139 Fraser Highway	Surrey	V4N 0G2	604-592-2300
Kal Tire - King George Blvd	2315 King George Blvd.	Surrey	V4A 5A4	604-531-7195
Canadian Tire - Newton	7599 King George Hwy	Surrey	V3W 5A8	604-501-7159
Canadian Tire - North	13665 102nd Street	Surrey	V3T 1N4	604-583-8473
Edmonds Batteries	6468 King George Blvd	Surrey	V3W 4Z3	604-596-8774
EnerSys Canada	13303 78th Avenue	Surrey	V3W 4N1	604-591-3683
Phil's Batteries and More Inc.	12332 Pattullo Place	Surrey	V3V 8C3	604-588-7445
Canadian Tire	5100 Hwy. 16 West	Terrace	V8G 5K4	250-635-7178
Kal Tire	4929 Keith Avenue	Terrace	V8G 1K7	250-635-6170
Canadian Tire	8238 Hwy 3B	Trail	V1R 4W4	250 364 3333
Canadian Tire	2290 Cambie Street	Vancouver	V5Z 2T7	(604)707-2290
Kal Tire	8130 Ontario Street	Vancouver	V5X 3E3	604-322-4060
Kal Tire - Arbutus St	2790 Arbutus Street	Vancouver	V6J 3Y6	250-260-0374
Kal Tire - Main St	1670 Main Street	Vancouver	V6A 2X1	604-669-3124
Canadian Tire	2820 Bentall Street	Vancouver	V5M 4H4	604-431-3570
Canadian Tire	2220 Kingsway	Vancouver	V5N 2T7	604-257-6510
Canadian Tire	8277 Ontario Street	Vancouver	V5X 0A7	604 336 1086
Kal Tire	429 West 1st Street	Vanderhoof	V0J 3A0	250-567-4224
Canadian Tire	4510 27th Street	Vernon	V1T 4Y6	250-549-2131
Kal Tire - Anderson Way	5451 Anderson Way	Vernon	V1T 9V1	250-542-1156
Vernon Battery Ltd.	4313 25th Avenue	Vernon	V1T 1P5	250-542-4275
Canadian Tire	1610 Hillside Avenue	Victoria	V8T 2C5	250-361-3152
Kal Tire	2882 Douglas Street	Victoria	V8T 4M9	250-383-1711
Canadian Tire	1519 Admirals Road	View Royal	V9A 2P8	250-381-3111
Kal Tire	2180 Elk Road	West Kelowna	V4T 2H5	250-707-1320
Kal Tire - Industrial Rd	1225 Industrial Road	West Kelowna	V1Z 1G4	250-769-5265
Canadian Tire	3550 Carrington Road	West Kelowna	V4T 2Z1	250-707-3901
Canadian Tire	3059 152nd Street	White Rock	V4P 3K1	604-454-5602
Canadian Tire	1050 S. Lakeside Drive	Williams Lake	V2G 3A6	250-392-3303
Kal Tire	1055 Mackenzie Avenue S	Williams Lake	V2G 3X9	250-392-7147

Appendix 2: Return Collection Facilities for Industrial-Type Lead-Acid Batteries

Canadian Energy	Unit 114 - 4238 Lozells Ave	Burnaby	V5A 0C4	604-420-7737
Edmonds Batteries	7471 Edmonds Street	Burnaby	V3N 1B3	604-525-8144
Magnacharge Battery Corp	1279 Derwent Way	Delta	V3M 5V9	604-525-0391
Canadian Energy	1440 Battle Street	Kamloops	V2C 2N8	250-374-8914
Canadian Energy	Unit 190 - 1891 Springfield Road	Kelowna	V1V 5V5	250-765-6120
East Penn Batteries	1505 Hardy Street	Kelowna	V1Y 7W9	604-455-0355
Interstate Batteries	311 Banks Road	Kelowna	V1X 6A1	250-860-3444
The Battery Doctors	1972 Windsor Road	Kelowna	V1Y 4R5	250-860-2866
East Penn Batteries	Unit 110 - 26988 56th Avenue	Langley	V4W 1N9	604-455-0355
Edmonds Batteries	Unit 101 - 20131 Industrial Avenue	Langley	V3A 4K6	604-534-7995
Interstate Batteries	20148 102nd Avenue	Langley	V1M 4B4	604-888-3446
Canadian Energy	541 1st Avenue	Prince George	V2L 2Y2	250-564-1551
Exide Technologies	Unit 115 - 14480 Knox Way	Richmond	V6V 2Z5	604-273-9779
RME Energy Ltd	Unit 3155 - 21331 Gordon Way	Richmond	V6W 1J9	604-241-4470
East Penn Batteries	2050 Mills Road	Sidney		604-455-0355
Edmonds Batteries	Unit 1 - 6468 King George Boulevard	Surrey	V3W 4Z3	604-596-8774
EnerSys Canada	Unit 408 - 13303 78th Avenue	Surrey	V3W 4N1	604-591-3683
Phil's Batteries & More	Unit 114 - 12332 Pattullo Place	Surrey	V3V 8C3	604-588-7445
Vernon Battery Ltd.	4313 25th Avenue	Vernon	V1T 1P5	250-542-4275
Canadian Energy	791 Cave Street	Victoria	V9A 5T6	250-361-3933
Interstate Batteries	1651 Old Island Hwy	Victoria	V9B 1H9	250-391-9748

Canadian Battery Association
2016 Report to Director, Waste Management

INDEPENDENT REASONABLE ASSURANCE REPORT

To the Director of
Canadian Battery Association (the "Association")

We have been engaged by the management of Canadian Battery Association (the Association) to undertake a reasonable assurance engagement in respect of the following disclosures within the Company's Annual Report the Director (the Report) for the year ended December 31, 2016 (together the "Subject Matter"):

- Location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of BC Regulation 449/2004 (the Recycling Regulation);
- The description of how the product was managed in accordance with the pollution prevention hierarchy in accordance with Section 8(2)(d) of the Recycling Regulation;
- The total amount of the producer's product sold and collected and, if applicable, the producer's recovery rate in accordance with Section 8(2)(e) of the Recycling Regulation; and,
- The performance for the year in relation to approved targets under Sections 8(2)(b), (d) and (e) in accordance with Section 8(2)(g) of the Recycling Regulation.

The objective of this report is to disclose how the Association's management has discharged its responsibility to report on the Subject Matter in accordance with Section 8(2)(b), (d), (e) and (g) of the Recycling Regulation.

RESPONSIBILITIES

The Subject Matter is the responsibility of the Association's management who have prepared the Subject Matter in accordance with the evaluation criteria which are an integral part of the Subject Matter. Our responsibility in relation to the Subject Matter is to perform a reasonable assurance engagement and to express a conclusion based on the work performed. Our opinion does not constitute a legal determination on the Association's compliance with the Recycling Regulation.

EVALUATION CRITERIA

The suitability of the evaluation criteria is the responsibility of management. The evaluation criteria presented in Appendix 1 are an integral part of the Subject Matter and address the relevance, completeness, reliability, neutrality and understandability of the Subject Matter.

SCOPE OF THE AUDIT

We carried out our reasonable assurance engagement in accordance with the International Standard on Assurance Engagements (ISAE) 3000, Assurance Engagements other than Audit or Reviews of Historical Financial Information published by the International Auditing and Assurance Standards Board. This Standard requires, amongst others, that the assurance team possesses the specific knowledge, skills and professional competencies needed to understand the information included within the Subject Matter, and that they comply with the independence and other ethical requirements of the International Federation of Accountants Code of Ethics for Professional Accountants.

A reasonable assurance engagement includes examining, on a test basis, evidence supporting the amounts and disclosures within the Subject Matter. A reasonable assurance engagement also includes assessing the evaluation criteria used and significant estimates made by management, as well as evaluating the overall presentation of the Subject Matter. The main elements of our work were:

- Inquiring and discussing with the Association's management to obtain an understanding of the management and information systems, processes and relevant controls used to generate, aggregate and report the data in the Annual Reports;
- Performing walkthroughs to test the design, and where relevant the operating effectiveness, of internal controls relating to data collection and reporting of the Subject Matter;
- Agreeing the number of collection facilities to supporting documentation;
- Confirming the existence of collection facilities including address, types of product accepted and hours of operations;
- Investigating any significant fluctuation in the total number of collection facilities over the past three years;
- Agreeing the total amounts of the producers product sold and collected during the year to source records on a test basis;
- Verifying that all recovered product was received by permitted smelters in North America on a test basis;
- Agreeing data used in calculations to source records on a test basis;
- Agreeing the applicable Annual Report target data to the approved stewardship plan to ensure completeness and consistency;
- Reviewing the Report to determine whether it is consistent with our overall knowledge of, and experience with, the non-financial performance of the Association; and,
- Comparison of reported performance against targets to internal records and calculations of performance.

OPINION

In our opinion, the Subject Matter within Canadian Battery Association's Annual Report the Director for the year ended December 31, 2016 presents fairly in accordance with the evaluation criteria, in all material respects:

- Location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of the Recycling Regulation;
- The description of how the product was managed in accordance with the pollution prevention hierarchy in accordance with Section 8(2)(d) of the Recycling Regulation;
- The total amount of the producer's product sold and collected and, if applicable, the producer's recovery rate in accordance with Section 8(2)(e) of the Recycling Regulation; and,
- The performance for the year in relation to approved targets under Sections 8(2)(b), (d) and (e) in accordance with Section 8(2)(g) of the Recycling Regulation.

Our report has been prepared solely for the purposes of management's stewardship under the Recycling Regulation and is not intended to be and should not be used for any other purpose. Our duties in relation to this report are owed solely to Association, and accordingly, we do not accept any responsibility for loss occasioned to any other party acting or refraining from acting based on this report.

Green Horwood & Co LLP

GREEN HORWOOD & CO LLP
CHARTERED ACCOUNTANTS

Victoria BC, Canada

June 30, 2017

Appendix 1 to the Independent Reasonable Assurance Report

Evaluation Criteria

COLLECTION FACILITIES

Specific Disclosures in the annual stewardship report for which evaluation criteria were developed		
Disclosed information	Claim in the Report	Reference
Number of collection facilities	<ul style="list-style-type: none"> 185 Return Collection Facilities (RCFs) for the public and 21 return locations for the IC&I sector 	<ul style="list-style-type: none"> Part 2, Section 8(2)(b), Page 2 and Appendix 1 and Appendix 2
Changes to number of collection facilities	<ul style="list-style-type: none"> There were 7 new RCF added in 2016. 	<ul style="list-style-type: none"> Part 2, Section 8(2)(b), Page 2 and Appendix 1

The following definitions were applied to the assessment of the location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of the Recycling Regulation:

- Collection Facility: any consumer or industrial facility that accepts Lead Acid Batteries.

The following evaluation criteria were applied to the assessment of the location of collection facilities, and any changes in the number and location of collection facilities from the previous report in accordance with Section 8(2)(b) of the Recycling Regulation:

- The number of collection facilities is determined based on the number of retail outlets or industrial depots that advertise they will accept lead acid batteries.
- Changes in the number of collection facilities are determined based on a review of retail outlets and CBA members self reporting industrial battery depots.

PRODUCT MANAGEMENT

Specific Disclosures in the annual stewardship report for which evaluation criteria were developed		
Disclosed information	Claim in the Report	Reference
A description of how the recovered product was managed in accordance with the pollution prevention hierarchy (S.8(2)(d))	<ul style="list-style-type: none"> All recovered LABs collected by CBA members are sent to recycling and smelting facilities that have valid permits, approvals and/or Export Permits 	<ul style="list-style-type: none"> Part 2, Section 8(2)(d), Pollution Prevention Hierarchy and Product/Component Management Page 2

The following definitions were applied to the assessment of the description of how the recovered product was managed in accordance with the pollution prevention hierarchy in accordance with Section S.8(2)(d):

- Total weight of LABs processed, by category, is determined based on scaled deliveries to licensed smelters in North America by CBA members or exported by permit to OECD countries.
- The recycling requirements and emission levels for recyclers and smelters are set by Provincial or State governments as part of their permit/approval processes for the recycling and smelting facilities.

The following evaluation criteria were applied to the assessment of the description of how the recovered product was managed in accordance with the pollution prevention hierarchy in accordance with Section S.8(2)(d):

1. All recovered LABs collected by CBA members are sent to recycling and smelting facilities that have valid permits, approvals and/or export permits.

PRODUCT SOLD AND COLLECTED

Specific Disclosures in the annual stewardship report for which evaluation criteria were developed		
Disclosed information	Claim in the Report	Reference
Product collected	<ul style="list-style-type: none"> CBA members reported 23.5M kgs of lead-acid batteries recovered in 2016. 	<ul style="list-style-type: none"> Part 2, Section 8(2)(e), Page3
Product sold	<ul style="list-style-type: none"> CBA members reported sales of 24.7M kgs of lead acid batteries in 2016. 	<ul style="list-style-type: none"> Part 2, Section 8(2)(e), Page 3
Recovery rate	<ul style="list-style-type: none"> See the evaluation criterion for performance for the year in relation to targets in the approved stewardship plan below 	

The following evaluation criteria were applied to the assessment of total amounts of the producer's product sold and collected and, if applicable, the producer's recovery rate has been calculated in accordance with Section 8(2)(e);

1. Product Sold: Product sold is determined based on self-reporting by each steward of units sold by category on a monthly/quarterly basis.
2. Product Collected: The weight of product collected is based on the weight of material shipped to smelters by CBA members for recycling
3. Product Collected: Adjustments for in-transit material and inventory at consolidation sites that are not yet invoiced by processors are made for annual reporting purposes.

TARGETS

Specific Disclosures in the annual stewardship report for which evaluation criteria were developed		
Disclosed information	Claim in the Report	Reference
Targets associated with Section 8(2)(b) per Approved Stewardship Plan: <ul style="list-style-type: none"> There will be over 180 retail families located in urban locations for the public to drop off LABs at no charge There will be a minimum of 20 large warehouse locations for drop off of industrial and commercial batteries at no charge. 	<ul style="list-style-type: none"> The CBA has identified 185 Return Collection Facilities (RCFs) for the public and 21 return locations for the IC&I sector. 	Section 2, page 4
Targets associated with Section 8(2)(d): <ul style="list-style-type: none"> Compliance with Basel Convention 	<ul style="list-style-type: none"> All LABs collected by CBA members were sent to permitted smelters in North America for recycling or exported to OECD countries for recycling 	Section 4, page 5
Targets associated with Section 8(2)(e): <ul style="list-style-type: none"> 95% Recovery Rate 	<ul style="list-style-type: none"> Product sold 24,700,000 kg Product recovered 23,500,000 kg Recovery rate 95.0% of CBA sales 	Part 2, Section 8(2)(e), Page 3 Part 2, Section 8(2)(e), Page 3 Section 3, page 4

The following evaluation criteria were applied to the description of performance for the year in relation to the specific targets associated with Section 8(2)(b), (d) and (e) of the Recycling Regulation in the approved stewardship plan:

1. Targets in the stewardship plan have been identified and reported on by management in the annual report; and
2. The description of progress against targets to date is supported by records maintained by the Canadian Battery Association.

3. The expected outcomes and target dates in the annual report are consistent with the targets in the approved stewardship plan
4. The facts disclosed in the annual update on progress are supportable by evidence, neutral and understandable.
5. All LABs are delivered to permitted smelters in North America or exported to OECD countries by Export Permits. This is intended to demonstrate that LABs are recycled in accordance with strict environmental standards. This is covered by the product management evaluation criteria above and no further evaluation criteria are necessary.