



## **Pharmaceutical Annual Report**

January to December 2009

**Submitted to:** The Director of Waste Management  
Environmental Quality Branch  
Ministry of Environment  
PO Box 9341, STN PROV GOVT  
Victoria, BC V8W 9M1

**Prepared by:** Ginette Vanasse  
Executive Director  
PCPSA  
406-1111 Prince of Wales Dr.  
Ottawa, ON K2C 3T2

**Date:** *June 30, 2010*

## Table of Contents

<b>1. Executive Summary</b> .....	3
<b>2. Program Outline</b> .....	4
Purpose:.....	4
Governance Structure: .....	4
Product Category: .....	5
Collection System: .....	5
<b>3. Educational Materials and Strategies</b> .....	6
Publicity:.....	<b>Error! Bookmark not defined.</b>
Print Media: .....	7
Website: .....	<b>Error! Bookmark not defined.</b>
Brochures/Posters: .....	<b>Error! Bookmark not defined.</b>
Ambassador Program:.....	7
<b>4. Collection System Information</b> .....	9
<b>5. Life Cycle Management</b> .....	10
<b>6. Recovery Rate</b> .....	11
<b>7. Fee Information</b> .....	11
<b>8. Performance Targets</b> .....	11
<b>9. Disposal</b> .....	15
<b>9. Conclusion</b> .....	15

### APPENDICIES

Appendix 1	Brand-owners participating in the MRP
Appendix 2a	BCPhA Pharmacist Awareness Week
Appendix 2b	CRD Source Control Program
Appendix 2c	MOE Product Life Cycle Management
Appendix 2d	PCPSA MRP e-news
Appendix 2e	Articles
Appendix 3a	Registered Community Pharmacies
Appendix 3b	Monthly changes in Collection Sites
Appendix 4	Table 1 Collection by Regional Districts
	Table 2 Quarterly reports by Regional Districts
	Table 3 Website year-to-year comparison
Appendix 5	Promotion & Communication Material from RD's and Municipalities
	Supporting documents

## 1. Executive Summary

Activities are notably higher than previous years. Collection across BC increased from 35,704 kg in 2009 to 51,297 kg of returns through community pharmacies; a 44% increase in medications collected. We also increase the quantity of products returns per capita from .008 kg to .0115 kg representing.

Total costs for the program have going up due to increased costs associated with environmentally appropriate destruction. Rates from the consumer-health sector industry have decreased slightly due to the steady increase of companies contributing to the program.

PCPSA achieved several goals with promotion and education on a safe, efficient and secure drug returns.

- **Collection Points:** In 2009, PCPSA were able to maintain pharmacy participation rates at 97.5% with accessibility and convenient access to over 1080 locations. Consumer convenience, attractive and accessible pharmacies are fundamental components to our program.
- **Information:** Easy to find links for pharmacists and the public on the British Columbia Pharmacy Association's website; guidance on how to dispose of unused or expired medications on the Recycling Council of British Columbia's website, and our own directory or comparable search engine on the majority of Regional District or Municipalities' websites have help direct the public to proper disposal of products.
- **Promotion:** British Columbia had increased media coverage on safe disposal for waste medications. Information on the *Medications Return Program* was published with Annual Recycling Calendars; in addition to brochures, flyers bookmarks and posters are available in different parts of the province.

This program continues to focus on unused and expired medications from households and continue to offer multiple solutions to reflect local/regional differences. Permanent collection programs provide ongoing, year-round drop-off services for consumers.

Once approved, this report will be available on the medications return website at [www.medicationsreturn.ca](http://www.medicationsreturn.ca)

## 2. Program Outline

### Purpose:

The Post-Consumer Pharmaceuticals Stewardship Association (PCPSA) is the Industry Funding Organization (IFO) created to manage safe disposal of unused or expired medications returned from the public. PCPSA is formed under the Society Act (BC) and registered nationally as a not for profit association. The association's role is to act as a steward for environmental waste management programs of pharmaceutical and consumer health products from the public. This program provides the pharmaceutical and consumer health products industries with a collective means of adhering to the requirements of the British Columbia *Recycling Regulation*.

### Governance Structure:

**Brand-owner:** (i) a person who manufactures a pharmaceutical product and sells, offers for sale or distributes a pharmaceutical product in British Columbia under its own brand, or;  
(ii) a person who is not the manufacturer of a pharmaceutical product but is the owner or licensee of a trademark under which the pharmaceutical product is sold or distributed in British Columbia, whether or not they own the Drug Identification Number.

**Board of Directors:** The affairs of the Association are managed by a board of directors (maximum of twelve (12)). The board of directors shall be comprised of at least one (1) representative from each of the sectors. All nominees for the board of directors shall declare with which sector he or she is affiliated. No one member and its affiliates may have more than one (1) representative on the board of directors.

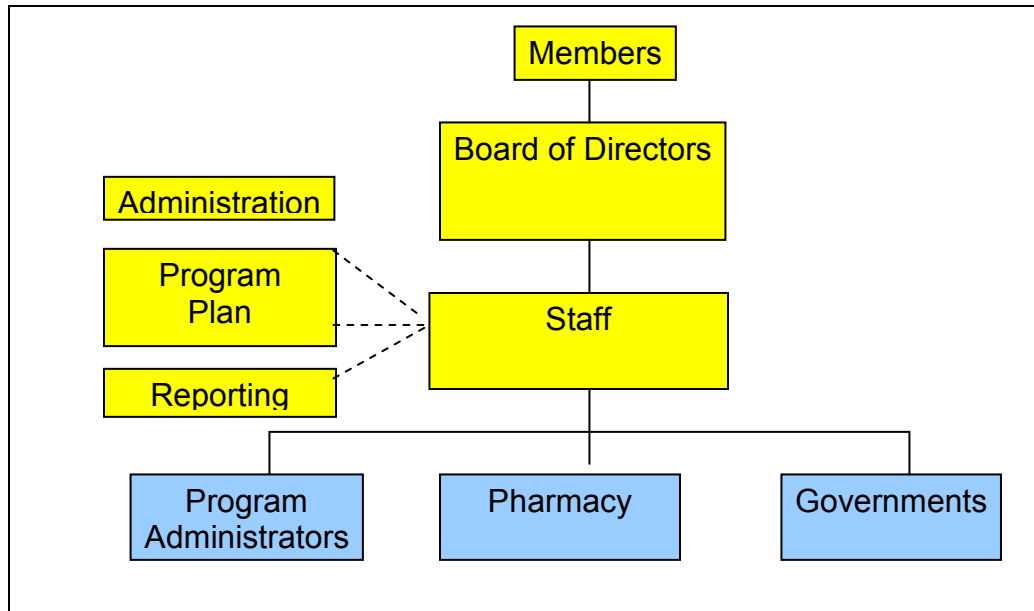
**Members:** Brand-owner of pharmaceuticals and consumer health products industries are members of the association.

**Pharmacy:** Community pharmacies registered with PCPSA to collect unused and expired medications from the public.

**Service Provider:** The business contracted to manage the *Medications Return Program* in British Columbia.

**Program Plan:** The Pharmaceutical Stewardship Plan approved by the Ministry.

**Staff:** Individuals employed by the association.



Product Category:

The pharmaceutical product category consists of all unused or expired drugs, as defined in the Food and Drugs Act (Health Canada),

- ✓ including prescription and nonprescription drugs,
- ✓ Including ingested natural health products (NHP) as defined in the *Natural Health Products Regulation* (Health Canada),
- ✓ excluding disinfectants, sanitizers with disinfectant claims,
- ✓ excluding veterinary products,
- ✓ excluding topical or skin care products,
- ✓ excluding foods, and
- ✓ limited to household quantities.

Collection System:

The collection sites for the *Medications Return Program* are community pharmacies. Pharmacies offer a logical and convenient system for the public to return unused or expired medications. They offer easy access to those with special needs and varying degrees of personal mobility. Many of these pharmacies are open extended hours, offering a convenient place for consumer disposal year-round. Pharmacist participation is voluntary. We work with the B.C. Pharmacy Association and the B.C. College of Pharmacists to advertise and promote the program to their members.

The pharmacy is responsible for the safekeeping of the *Medications Return Program* container and its contents while on their premises. The containers are handled and stored properly to ensure that they are not subject to spilling, loss or theft. Once the container is full, the pharmacist contacts the service provider who arranges for pick up and replacement of containers within 7 days.

All containers returned from a pharmacy are tracked by pickup date, weight, location and stored in a secure location until a shipment ready for safe destruction through a licensed destruction facility.

#### Environmental Assessment:

Expired medications do not represent a serious threat to public health. Medications returned under this program do not meet the criteria for hazardous material. Persistence, bio-accumulation and toxicity are universally recognized criteria for protection of the environment from adverse chemical contamination. Ingredients are reviewed and assessed under the Canadian Environmental Protection Act and Regulations. Environment Canada and Health Canada websites will provide recent information at:

<http://www.ec.gc.ca/substances/ese/eng/dsl/dslprog.cfm>, and  
<http://www.hc-sc.gc.ca/dhp-mps/index-eng.php>

#### Fee Structure:

PCPSA's members, brand-owners of pharmaceuticals and consumer health products, are contributing based on a sample of returns conducted in 2006. Rates were reviewed in 2009 and adjusted accordingly for next year. PCPSA continues to invoice brand-owners of affected products once a year. Their contributions is based on prescriptions dispensed (brand-name and generic) and/or percentage of sales of affected consumer health products. Rates are set yearly by the Board of Directors in relation to projected costs. The *Medications Return Program* is fully funded by industries Appendix 1.

There are no fees to the public for returning medications to participating pharmacies. In addition, individual pharmacies can sign up voluntarily (no fees charged) to be a collection and storage point for the program.

### **3. Educational Materials and Strategies**

- ❖ *to ensure citizens of British Columbia are informed of the Program and are provided with current information regarding the availability of a system for the collection of unused and expired medications.*

In 2009, we focused on advertising in recycling calendar and Regional District's websites. Appendix 3 provides the actual distribution (269,000) by RD's and Municipalities.

PCPSA has contracted with the Recycling Council of British Columbia's "recycling hotline" service to provide information on medications disposal. The RCBC Hotline is open during normal business hours, accessible to the public by a toll free telephone number (1-800-667-4321). The RCBC Recycling Hotline is a comprehensive, toll-free personal service that provides information on waste reduction, recycling, disposal and pollution prevention throughout the entire province. Approximately 120 calls regarding medication disposal are received annually, representing less than 1% of their total calls.

Information booth was set up at the Vancouver Landfill Open House (June), magnets, along with posters, brochures and flyers were handed out to approximately 150,000.

PCPSA continued to use an e-bulletin to communicate with participating community pharmacy managers and staff. Program information and provincial initiatives on the *Medications Return Program* is circulated in the spring and fall (Appendix 2).

#### Print Media:

- Bookmarks to replace brochures were developed and available in English, Traditional Chinese and Punjabi (Appendix 2);
- Distribution of e-newsletter through chains (Safeway, Katz Group of Company, Costco, Overwaitea, Wal-Mart and London Drugs) as well as registered independent retailers.
- EPR brochure (Appendix 4)
- Reader's Digest (April 2009) Time to take your meds: But where to? (Appendix 4)
- Cariboo Regional District Flyer and Brochure on Product Stewardship circulated to residents
- Rogers's publishing (pharmacists network)
- Yellow Pages ad in their Eco Guide

#### Annual Calendar promotion

Spaces for articles were purchased in the five (5) 2009 Annual Recycling Calendars where collections were below the provincial average. (Appendix 3)  
(269,000)

#### Request for Brochures and posters

In addition to our posters and brochures that can quickly be supplied to participating pharmacies, we have a new bookmarks available for events. The brochure provides directions on what is accepted and not accepted; how to return unused or expired medications and where to go in an easy to follow fashion. Posters and bookmarks help develop and promote awareness of the *Medications Return Program*

Twelve (12) public display locations requested flyers/posters for their information areas. Metro Vancouver was the most active with workshops on stewardship programs for surrounding municipalities (26).

#### Ambassador Program:

PCPSA collaborated once again with British Columbia Used Oil Management Association for a province-wide communications campaign. A team of two university students embarked on a tour of the province spreading the message on safe disposal of expired medications with municipalities, government officials, and at community events throughout the course of the summer. In several municipalities, they also stopped into local pharmacies to drop off promotional signage and provide additional information on the program. They participated in 5+ community events, 3000 brochures were offered with visits to 83 municipalities including communities in Peace River, Fort St. John, Quesnel, Cariboo, and Prince George.

Websites

As anticipated, the traffic on our website was up (64.86%) and the numbers of e-mails and calls received for information continues to grow. Our website is updated to reflect new information on EPR programs are also published on RD with links to our website.

Regional Districts	Website	Annual Calendar	Link to PCPSA
Alberni - Clayoquat			
Bulkley - Nechako			
Capital	yes		yes
Cariboo	yes		yes
Central Kootenay	yes		yes
Central Okanagan		yes	
Columbia Shuswap	yes		
Comox-Strathcona	yes		yes
Cowichan Valley	yes		
East Kootenay			
Fraser - Fort George	yes		
Fraser Valley	yes		Mission
Metro Vancouver	yes	Richmond, Vancouver North/West	yes
Central Coast			
Kitimat - Stikine	yes		
Kootenay Boundary		Yes	
Mount Waddington	yes		yes
Nanaimo	yes		yes
North Okanagan	yes	Yes	yes
Northern Rockies			
Okanagan - Similkameen	yes	yes	yes
Peace River	yes		
Powell River			
Skeena-Queen Charlotte			
Squamish-Lillooet			
Strathcona	yes		yes
Sunshine Coast	yes		yes
Thompson-Nicola		yes	

Table 1. MRP information found on Regional Districts in 2009

Awards

The Medications Return Program was awarded the 2009 British Columbia Pharmacy Association **Award of Excellence**, in recognition for environmentally responsible destruction of consumer medication waste, at the BCPhA Annual Conference in Victoria, B.C.





#### 4. Collection System Information

The collection sites for the *Medications Return Program* are community pharmacies. Community pharmacies currently participating in the program can be easily located by the public on the association's website at [www.medicationsreturn.ca](http://www.medicationsreturn.ca) or by phoning RCBC hotline services.

At the end of the year, we had 1080 registered pharmacies representing 97.5% of licensed community pharmacies in B.C (Appendix 3). This represents a net change of 138 collection sites from 2009.

Since the participation of pharmacists is central to the success of this program, we track the rotation of managers or relocation of stores within the province. All recently opened pharmacies and pharmacies with a change in address and/or manager are contacted and receive information on the program in a timely fashion.

To accommodate safe disposal practices, PCPSA has agreed to provide take-back containers for unused or expired medications from the public to sites with special needs, such as a community hospital located in a remote area as well as 2 retirement/care facilities and one clinic.

2008 Planned Target Set in Approved Stewardship Plan	2008 Report on the Planned Target	
Collection Points: Target until 2011:	Maintain a pharmacy program participation rate of 90%.	
Performance measure: Report percentage of participating pharmacies yearly.	95%	
2009 planned strategies:  1. Contact new licensed community pharmacies from amended list purchased from the B.C. College of Pharmacists on a monthly basis.  2. Contact existing pharmacies with ownership and/or manager changes on a quarterly basis.  3. Contact pharmacies with a significant change in collection pattern.	Since July 2009, we no longer have reports of changes in community pharmacies.  Completed as planned  Completed as required	We compare locations from list published on Internet by the College on a quarterly basis.

## 5. Life Cycle Management

The Canadian Council of Ministers of the Environment in their Extended Producer Responsibility Product Evaluation Tool proposed several criteria to measure the impact of pharmaceutical waste on human and environment health.

Does the product or its components or by-products contain toxics or other substances that are hazardous to human health or to the environment?

Researchers have found some classes of drugs in the Canadian environment, primarily in surface water. However, the potential effects are considered to be very low.

Are the anticipated duration effects on human health or the environment likely to be significant?

The anticipated duration of the effects could be considered medium-term. There is scientific evidence that the risk to human is very low, however there are concerns about the effects of those low levels on aquatic life, therefore research on the chronic toxicity potential of pharmaceuticals in the environment is important, but outside the scope of responsibilities of the *Medications Return Program*.

Is this product a significant component to municipal waste stream?

Pharmaceuticals products are not significant by volume or weight to the waste stream.

The bulk of human pharmaceuticals found in waterways most likely got there by way of sewage. It is questioned whether take backs have any real environmental and safety benefit. Taking unused pharmaceuticals out of landfills may make only a small difference in the concentrations found in water. But take-back programs may help prevent leftover pharmaceuticals from being misused.

### Pollution Prevention Hierarchy:

The pollution prevention hierarchy requirements outlined in the *Recycling Regulation* to reduce the environmental impact are not feasible for pharmaceutical products; consequently, PCPSA disposes of the waste at government approved facilities.

## 6. Recovery Rate

While PCPSA agrees that recovery rate provides some means to measure program success; we are clearly very limited in reporting the recovery rate and any efforts taken to normalize the recovery rate due to the nature of the product. Medications may have a long period between purchase and return and prescriptions drugs dispensed should be fully consumed unless otherwise directed by a health professional. The PCPSA *Medications Return Program* collects medications; not the container used to market the product or vial used to dispense and identify the prescription. We recommend that containers be recycled.

We are currently recording collection in kilograms by Regional Districts. The absolute collection per capita by Regional Districts appears Table 2; while Table 3 is the absolute collection of medication in kilogram (mass recovered) on a quarterly basis. The average rate of returns per capita for the province is 0.0115 kg. The highest return of returns is once again with the Capital Regional District at .019 with the lowest rate remain with Columbia-Shuswap at 0.0018.

## 7. Fee Information

- (i) No fee collected or charges for this product

## 8. Performance Targets

2009 Planned Target Set in Approved Stewardship Plan	2009 Report on the Planned Target
<b>Waste composition Study Target from 2007 to 2011:</b>	<b>Decrease the presence of pharmaceuticals in RD's that conduct waste composition studies.</b>
Performance measure: Report amounts of pharmaceuticals estimated in statistically significant RD's waste composition studies	For the Regional Districts that conduct waste composition studies, the waste composition studies should be statistically significant to establish the presence of pharmaceuticals within the HHW category, as more is collected through the MRP significantly less should appear in waste collection.  No reports were received in 2009.
2009 Planned Strategies	
Review information collected from composition study to investigate the benefits of participating in a composition study with selected regional districts	RCBC is to investigating with the BCPSC and will come back to stewardship agencies with a plan for sharing costs.
Amendments to the plan's performance target/goal:	Followed up with RCBC and other Stewardship Agencies at annual RCBC AGM.

2009 Planned Target Set in Approved Stewardship Plan	2009 Report on the Planned Target
<b>Public Awareness Target from 2007 to 2011:</b>	<b>50% increase in public awareness of the program compared to 2007 awareness. Baseline program awareness level at 31% SD ± 4.3%.</b>
Performance measure: Percentage of public awareness of the program	MOE engaged Ipsos Reid Public Affairs to conduct an online consumer awareness survey of 1000 B.C. residents. Results were quite encouraging 55% are familiar with the program compared to 31% in 2007 and 25% have used the program in the last 5 years compared to 21% in 2007.
2009 planned strategies:  Increase publicity in another 2 RD annual calendar and continue to support special events (4).	Report of 2009 strategies:  Promotion of program by advertising in 5 RD's recycling calendars; 40% have a link to the Medications Return's website.
Support Regional Districts/Municipalities initiatives with promoting safe disposal of medications.	<p>Annual Calendar: two years in a row with: City of Richmond (2009 calendar) Vancouver Recycling (insert flyers)</p> <p>Brochures and posters circulated to: Pharmacies (3) Mission Cariboo Fraser Valley Langley</p> <p>Local Newspapers: BCPhA/Metro Vancouver safe disposal campaign Press conference - Spring clean up March 20. Numerous community and ethnic papers during spring clean up events Board member at press conference Hamilton Spectator (June) Research at Ryerson College</p> <p>Information booth was set up at the Vancouver Landfill Open House (June).</p>
Use the BC Used Oil Ambassador Program to promote safe disposal for medications to municipal representatives and at community events.	PCPSA collaborated once again with British Columbia Used Oil Management Association for a province-wide communications campaign. Two ambassadors toured the province promoting through distribution of material to municipal officials during meetings as well as to the public at community events. In several municipalities, they also stopped into local pharmacies to drop off promotional signage and provide additional information on the program. They participated in 5+ community events, 3000 brochures

	were offered with visits to 83 municipalities including communities in Peace River, Fort St. John, Quesnel, Cariboo, and Prince George.
Amendments to the plan's performance target/goal:	PCPSA will conduct a public survey in 2010 since there was a survey in late 2008.

<b>2009 Planned Target Set in Approved Stewardship Plan</b>	<b>2009 Report on the Planned Target</b>
Quantity Collected performance target 2007-2011	Maintain a minimum quantity collected of 14,000 kg.
Performance measure	
Report total quantity collected on a yearly basis with quarterly results by regional districts	Total collection for 2009 is 51,297 kg Regional district distribution Table 2 and 3,
2009 planned strategies:	Report of 2009 strategies:
Continue to work with members and participating pharmacies to organize special collection events and promotion	Activities are notably higher than previous years. Collection across BC increased from 35,704 kg to 51,297 kg of returns through community pharmacies; a 44% increase in medications collected..
Amendments to the plan's performance target/goal:	None at this time. The strategies in place for 2010 should provide us with the expected outcome.
Confirming next year's strategies	2010 strategies will target Regional districts with lower returns.
Year 4 and 5	Continue to work with members and community pharmacies with special collection events and retailer publicity.

<b>2009 Planned Target Set in Approved Stewardship Plan</b>	<b>2009 Report on the Planned Target</b>
<b>Promotion performance target 2007-2011</b>	<b>Publicity on the MRP in 14 regional districts or municipalities' websites with recycling sections.</b> <b>Indication of program in 13 recycling calendars.</b>
Performance measure:	
Increase in awareness of program to dispose of medications.	Contact regional districts and municipalities with information for the website/recycling directory/annual calendar on the <i>Medications Return Program</i> .
2009 planned strategies	Report of 2009 strategies:
Follow up on advertising on RD/municipalities websites and annual calendars and contact another 5 municipalities.	Contact regional districts with promotional material and key messages for their websites. Follow up with e-mail  1. Found 21 websites with information on <i>Medications Return Program</i> . Abbotsford, Buckley-Nechako, Capital,

Contact 10 municipalities and 28 RD's to advertise the program in the garbage and municipal calendars.	<p>Central Kootanay, Columbia Shuswap, Comox-Strackcona, Cowichan Valley, Fraser-Fort George, Fraser Valley, Kitamat-Stikine, Mission, Nanaimo, Kitimat-Stikine, Chilliwack, North Okanagan, Okanagan-Similkameen, Peace River, Mount Waddington and the Municipality of Golden, MoE, RCBC as well as the North Shore Recycling Program.</p> <p>2. Contact 12 regional districts with key messages for their websites and annual recycling calendars.</p>
Develop contact list for RD's	2. RCBC will provide Stewards with a list of Municipal Waste Coordinators for RD's.
Website information	As anticipated the traffic on our website was up (20% and the numbers of e-mails and calls received for information continues to grow. The website was updated to reflect new information as it became available.
Amendments to the plan's performance target/goal:	None at this time. The strategies in place for 2010 should provide us with the expected outcome.
Confirming next year's strategies	Follow up on advertising on RD/municipalities websites and annual calendars and contact another 5 municipalities.
Year 4	Evaluate the outcome of our promotional program through a public survey.
Year 5	TBD

## **9. Disposal**

There are less options for disposing drugs collected through this program. Waste incinerators in Canada are very limited and we cannot export controlled drugs even once denaturalize to the US. We continue to look at viable alternative for responsible disposal.

In 2009, PCPSA used incinerators, in Alberta and in Ontario.

## **9. Conclusion**

As drug abusers often obtain medications from the home of friends or family members, it is extremely important to address the safe and proper disposal of unused medication. PCPSA is committed to working other stakeholders to offer a safe and effective drug disposal that will help reduce the risk of drug abuse and environmental pollution in our communities.

## APPENDICIES



**Appendix 1**

**PCPSA 2009 Membership**

<b><u>Company</u></b>	<b><u>Name</u></b>	<b><u>City</u></b>	<b><u>PCPSA Categories</u></b>	<b><u>PCPSA</u></b>
Abbott Laboratories Limited	Abbott Laboratories Limited	Saint-Laurent	Brand Name	November 8, 2006
Abraxis BioScience Inc.	Abraxis BioScience Inc.	Richmond Hill	Generic	December 4, 2006
Advantage Sales and Marketing Canada	Advantage Sales and Marketing	Markham	Self-care	June 22, 2001
Afexa Life Sciences Inc.	Afexa Life Sciences Inc.	Edmonton	Self-care	October 26, 2006
Alcon Canada Inc.	Alcon Canada Inc.	Mississauga	Brand Name	March 7, 2007
Amgen Canada Inc.	Amgen Canada Inc.	Mississauga	Brand Name	March 9, 2007
Apotex Inc.	Apotex Inc.	Toronto	Generic	September 16,
Astellas Pharma Canada Inc.	Astellas Pharma Canada Inc.	Markham	Brand Name	November 10, 2006
AstraZeneca Canada Inc.	AstraZeneca Canada Inc.	Mississauga	Brand Name	December 14, 2001
Axcan Pharma Inc.	Axcan Pharma Inc.	Mont St-Hilaire	Brand Name	April 6, 2005
Bayer Inc.	Bayer Inc.	Toronto	Brand Name, Self-care	February 5, 2004
Bioforce Canada Inc.	Bioforce Canada Inc.	Dollard-des-Ormeaux	Self-care	August 27, 2007
Biogen Idec Canada Inc	Biogen Idec Canada Inc	Mississauga	Brand Name	March 11, 2010
Biovail Pharmaceuticals Canada	Biovail Pharmaceuticals	Mississauga	Brand Name	
Boehringer Ingelheim Canada Ltd.	Boehringer Ingelheim Canada	Burlington	Brand Name, Self-care	July 21, 2004
Boiron Canada Inc.	Boiron Canada Inc.	Longueuil	Self-care	May 9, 2007
Bristol-Myers Squibb Pharmaceutical Group	Bristol-Myers Squibb	Montreal	Brand Name	
Canada Safeway Ltd.	Canada Safeway Ltd.	Calgary	Self-care	November 5, 2007
Chattem (Canada) Inc.	Chattem (Canada) Inc.	Mississauga	Self-care	April 23, 2004
Church & Dwight Canada	Church & Dwight Canada	Mississauga	Self-care	August 14, 2001
Cobalt Pharmaceuticals Inc.	Cobalt Pharmaceuticals Inc.	Mississauga	Generic	November 15, 2006
Combe Incorporated	Combe Incorporated	White Plains	Self-care	December 5, 2006
Costco	Costco	Ottawa	Self-care	
Cytex Pharmaceutical Inc.	Cytex Pharmaceutical Inc.	Halifax	Generic	July 30, 2007
Eli Lilly Canada Inc.	Eli Lilly Canada Inc.	Toronto	Brand Name	September 9, 2001
EMD-Serono Canada Inc.	EMD-Serono Canada Inc.	Mississauga	Brand Name	October 1, 2008
Enzymatic Therapy	Enzymatic Therapy	Vancouver	Self-care	
Ferring Inc.	Ferring Inc.	Toronto	Brand Name	
Gaia Garden Herbs Inc.	Gaia Garden Herbs Inc.	Vancouver	Self-care	
Galderma Canada	Galderma Canada	Thornhill	Brand Name	September 14,
General Nutrition Centres Canada	General Nutrition Centres	Mississauga	Self-care	March 20, 2008
GlaxoSmithKline Consumer Healthcare	GlaxoSmithKline Consumer	Oakville	Self-care	August 30, 2001
GlaxoSmithKline Inc.	GlaxoSmithKline Inc.	Mississauga	Brand Name	December 12, 2001
Graceway Pharmaceuticals	Graceway Pharmaceuticals	London	Brand Name	November 8, 2006
Helix BioPharma Corp.	Helix BioPharma Corp.	Aurora	Generic	June 19, 2009
Herbalife of Canada	Herbalife of Canada	Calgary	Self-care	December 11, 2006
Hospira Healthcare Corporation	Hospira Healthcare Corporation	Saint-Laurent	Generic	April 11, 2007

**Appendix 1**

**PCPSA 2009 Membership**

<u>Company</u>	<u>Name</u>	<u>City</u>	<u>PCPSA Categories</u>	<u>PCPSA</u>
Hudson's Bay Company	Hudson's Bay Company	Brampton	Self-care	October 16, 2006
Indigene Pharma Inc.	Indigene Pharma Inc.	Mississauga	Self-care	
Institut Rosell	Institut Rosell	Montreal	Self-care	October 31, 2008
Jamieson Laboratories	Jamieson Laboratories	Windsor	Self-care	June 9, 2005
Janssen-Ortho Inc.	Janssen-Ortho Inc.	Toronto	Brand Name	May 17, 2004
Johnson & Johnson Inc.	Johnson & Johnson Inc.	Markham	Self-care	May 30, 2001
Katz Group Canada Ltd	Katz Group Canada Ltd	Mississauga	Self-care	November 3, 2006
King Pharmaceuticals	King Pharmaceuticals	Mississauga	Brand Name	December 6, 2006
Kripps Pharmacy	Kripps Pharmacy	Vancouver	Pharmacies, Self-care	
Laboratoires Riva	Laboratoires Riva	Blainville	Generic	
Leo Pharma Inc.	Leo Pharma Inc.	Thornhill	Brand Name	May 5, 2004
Loblaw Companies Ltd	Loblaw Companies Ltd	Brampton	Self-care	
London Drugs Limited	London Drugs Limited	Richmond	Self-care	
Lundbeck Canada Inc.	Lundbeck Canada Inc.	Montreal	Brand Name	
Mead Johnson Nutritionals	Mead Johnson Nutritionals	Ottawa	Self-care	November 8, 2001
Merck Frosst Canada Ltd.	Merck Frosst Canada Ltd.	Kirkland	Brand Name, Self-care	November 20, 2004
Mylan Canada	Mylan Canada	Etobicoke	Generic	
Natural Factors Nutritional Products Ltd	Natural Factors Nutritional	Coquitlam	Self-care	
Nature's Sunshine Products	Nature's Sunshine Products	Brampton	Self-care	
Northwest Natural Products	Northwest Natural Products	Vancouver	Self-care	January 29, 2010
Novartis Consumer Health Canada Inc.	Novartis Consumer Health	Mississauga	Self-care	May 25, 2001
Novartis Pharma Canada Inc.	Novartis Pharma Canada Inc.	Dorval	Brand Name	November 13, 2006
Novo Nordisk	Novo Nordisk	Mississauga	Brand Name	October 31, 2006
Novopharm Ltd. / Teva Neuroscience	Novopharm Ltd. / Teva	Toronto	Generic	September 20,
Nu-Pharm Inc	Nu-Pharm Inc	Richmond Hill	Generic	September 12,
Nycomed Canada Inc.	Nycomed Canada Inc.	Oakville	Brand Name, Self-care	April 28, 2008
Odan Laboratories Ltd.	Odan Laboratories Ltd.	Pointe Claire	Generic	
Omega Alpha Pharmaceuticals	Omega Alpha Pharmaceuticals	Scarborough	Self-care	
Omega Laboratories Ltd.	Omega Laboratories Ltd.	Montreal	Generic	June 7, 2007
Organika Health Products Inc.	Organika Health Products Inc.	Richmond	Self-care	August 4, 2009
Overwaitea Food Group Ltd Partnership	Overwaitea Food Group Ltd	Langley	Self-care	July 3, 2007
Paladin Labs Inc.	Paladin Labs Inc.	Montreal	Brand Name	May 3, 2004
Peoples Drug Mart (B.C.) Ltd	Peoples Drug Mart (B.C.) Ltd	Burnaby	Self-care	
Pfizer Canada Inc	Pfizer Canada Inc	Kirkland	Brand Name	September 21,
Pharmasave Drugs (National) Ltd.	Pharmasave Drugs (National)	Langley	Self-care	May 4, 2007
Pharmascience Inc.	Pharmascience Inc.	Montreal	Generic	September 20,
Platinum Naturals	Platinum Naturals	Richmond Hill	Self-care	March 22, 2004

**Appendix 1**

**PCPSA 2009 Membership**

<u>Company</u>	<u>Name</u>	<u>City</u>	<u>PCPSA Categories</u>	<u>PCPSA</u>
Procter & Gamble Inc.	Procter & Gamble Inc.	North York	Self-care	October 16, 2001
Procter & Gamble Pharmaceuticals Canada Inc.	Procter & Gamble	Toronto	Brand Name	August 16, 2001
ProMedics Nutraceutical Tld	ProMedics Nutraceutical Tld	Vancouver	Self-care	December 21, 2009
Purdue Pharma	Purdue Pharma	Pickering	Brand Name, Self-care	June 14, 2001
Quixtar Canada Corporation	Quixtar Canada Corporation	London	Self-care	May 23, 2001
Ranbaxy Pharmaceuticals Canada Inc.	Ranbaxy Pharmaceuticals	Mississauga	Generic	November 9, 2007
Ratiopharm	Ratiopharm	Mississauga	Generic	November 8, 2006
Roche Limited	Roche Limited	Mississauga	Brand Name	December 19, 2001
Sandoz Canada	Sandoz Canada	Boucherville	Generic	November 16, 2006
Sanofi-Aventis	Sanofi-Aventis	Laval	Brand Name	August 7, 2001
Schering-Plough Canada Inc.	Schering-Plough Canada Inc.	Kirkland	Brand Name, Self-care	October 23, 2001
Seaford Pharmaceuticals Inc.	Seaford Pharmaceuticals Inc.	Mississauga	Self-care	
Sepracor Pharmaceuticals Inc.	Sepracor Pharmaceuticals Inc.	Mississauga	Brand Name	April 29, 2009
Servier Canada Inc.	Servier Canada Inc.	Laval	Brand Name	May 12, 2004
Shaklee Canada Inc.	Shaklee Canada Inc.	Burlington	Self-care	May 20, 2001
Shire Canada Inc.	Shire Canada Inc.	Markham	Brand Name	
Shoppers Drug Mart, Pharmaprix	Shoppers Drug Mart,	Calgary	Self-care	
SISU Inc.	SISU Inc.	Burnaby	Brand Name, Self-care	
Solvay Pharma Inc.	Solvay Pharma Inc.	Markham	Brand Name	
Stiefel Canada Inc., a GSK Company	Stiefel Canada Inc., a GSK	Montreal	Brand Name	August 7, 2001
Swiss Herbal Remedies Ltd.	Swiss Herbal Remedies Ltd.	Richmond Hill	Self-care	March 17, 2004
Taro Pharmaceuticals Inc.	Taro Pharmaceuticals Inc.	Brampton	Generic	September 12,
Tianshi Health Products	Tianshi Health Products	Markham	Self-care	December 3, 2007
Trophic Canada	Trophic Canada	Penticton	Self-care	February 13, 2006
UniPHARM Wholesale Drugs	UniPHARM Wholesale Drugs	Richmond	Self-care	September 12,
USANA Canada Co.	USANA Canada Co.	Woodbridge	Self-care	March 25, 2004
Valeant Canada Limited	Valeant Canada Limited	Montreal	Brand Name, Generic	September 27,
Vita Health Products Inc.	Vita Health Products Inc.	Winnipeg	Self-care	September 19,
Wal-Mart Pharmacy	Wal-Mart Pharmacy	Mississauga	Self-care	January 17, 2006
WellSpring Pharmaceutical Canada Corp.	WellSpring Pharmaceutical	Oakville	Self-care	July 22, 2005
Westcoast Naturals	Westcoast Naturals	Richmond	Self-care	July 31, 2009
WN Pharmaceuticals Ltd.	WN Pharmaceuticals Ltd.	Coquitlam	Self-care	
Wyeth Canada	Wyeth Canada	Montreal	Brand Name	August 29, 2001
Wyeth Consumer Healthcare Inc., a Pfizer	Wyeth Consumer Healthcare	Mississauga	Self-care	July 27, 2001

<b>Appendix 4 Table 1 2009 MRP Collection by Regional District</b>					
Absolute Collection					
	POPULATION	WEIGHT (kg)	CONTAINER	per capita/kg	Level
<b>British Columbia</b>	<b>4,455,207</b>	<b>51205</b>	<b>4145</b>	<b>0.0115</b>	
Alberni-Clayoquot	31,542	212	18	0.0067	low
Bulkley-Nechako	38,860	461	35	0.0119	norm
Capital	367,572	6994	558	0.0190	high
Cariboo	65,047	614	52	0.0094	norm
Central Coast	3,118				
Central Kootenay	59,756	595	50	0.0100	norm
Central Okanagan	184,411	1769	147	0.0096	norm
Columbia-Shuswap	53,713	326	29	0.0018	lowest
Comox-Strathcona	108,273	1419	114	0.0131	norm
Cowichan Valley	81,689	1118	88	0.0137	norm
East Kootenay	59,954	472	35	0.0079	norm
Fraser Valley	280,210	2934	220	0.0105	norm
Fraser-Fort George	95,652	594	44	0.0062	low
Island Trust		183	15		
Kitimat-Stikine	40,022	77	6	0.0019	lowest
Kootenay-Boundary	32,111	425	36	0.0132	norm
Metro Vancouver	2,318,526	25825	2077	0.0111	norm
Mount Waddington	12,042	135	13	0.0112	norm
Nanaimo	147,866	1991	156	0.0135	norm
North Okanagan	83,179	895	72	0.0108	norm
Northern Rockies	6,003	74	6	0.0123	norm
Okanagan-Similkameen	83,337	1020	83	0.0122	norm
Peace River	62,244	309	23	0.0050	lowest
Powell River	20,207	298	23	0.0147	norm
Skeena-Queen Charlotte	19,438	173	11	0.0089	norm
Squamish-Lillooet	39,209	274	21	0.0070	norm
Sunshine Coast	29,551	443	37	0.0150	norm
Thompson-Nicola	131,675	1575	176	0.0120	norm
BC STATS, Standard population estimates					

## B. C. MEDICATIONS RETURN PROGRAM

### RESULTS BY REGIONAL DISTRICT FOR 2009

	Q1		Q2		Q3		Q4		Total	
	Kg	Pails	Kg	Pails	Kg	Pails	Kg	Pails	Kg	Pails
<b>Metro Vancouver</b>	5,126	452	6,521	523	7,826	608	6,352	494	25,825	2,077
<b>Capital</b>	1,675	142	1,810	139	1,746	134	1,763	143	6,994	558
<b>Fraser Valley</b>	517	41	819	63	853	62	745	54	2,934	220
<b>Nanaimo</b>	352	30	567	44	590	46	482	36	1,991	156
<b>Thompson-Nicola</b>	366	48	398	45	452	45	359	38	1,575	176
<b>Comox-Strathcona</b>	403	36	432	34	349	26	235	18	1,419	114
<b>Central Okanagan</b>	391	36	411	33	510	40	457	38	1,769	147
<b>Okanagan - Similkameen</b>	259	24	259	20	306	22	196	17	1,020	83
<b>Cowichan Valley</b>	218	18	315	24	336	29	249	17	1,118	88
<b>North Okanagan</b>	208	18	244	19	204	16	239	19	895	72
<b>Fraser - Fort George</b>	147	12	149	11	136	9	162	12	594	44
<b>Cariboo</b>	116	10	157	14	168	13	173	15	614	52
<b>East Kootenay</b>	91	7	182	14	64	4	135	10	472	35
<b>Bulkley - Nechako</b>	143	11	82	8	132	9	104	7	461	35
<b>Kootenay Boundary</b>	125	10	104	9	122	11	74	6	425	36
<b>Peace River</b>	63	5	91	7	64	4	91	7	309	23
<b>Central Kootenay</b>	138	13	85	9	231	17	141	11	595	50
<b>Sunshine Coast</b>	78	7	94	8	157	13	114	9	443	37
<b>Columbia Shuswap</b>	69	7	117	9	63	7	77	6	326	29
<b>Squamish-Lillooet</b>	101	8	12	1	100	7	61	5	274	21
<b>Powell River</b>	61	5	64	5	91	6	82	7	298	23
<b>Islands Trust</b>	41	3	71	6	51	4	20	2	183	15
<b>Mount Waddington</b>	44	5	15	1	37	3	39	4	135	13
<b>Kitimat - Stikine</b>	14	1	39	3	0	0	24	2	77	6
<b>Alberni - Clayoquot</b>	15	1	60	6	63	5	74	6	212	18
<b>Skeena-Queen Charlotte</b>	64	4	33	2	14	1	62	4	173	11
<b>Northern Rockies</b>	25	2	8	1	13	1	28	2	74	6
	<b>10,850</b>	<b>956</b>	<b>13,139</b>	<b>1,058</b>	<b>14,678</b>	<b>1,142</b>	<b>12,538</b>	<b>989</b>	<b>51,205</b>	<b>4,145</b>

**Appendix 4 Table3 PCPSA Website Year to Year**

	2009		2008		
	Hits	Visits	Hits	Visits	Variation
January	35074	1361	57701	950	0.43
February	35306	1244	<b>34742</b>	588	1.12
March	49371	1479	<b>84259</b>	1145	0.29
April	44469	1297	<b>47230</b>	850	0.53
May	29294	1133	36445	960	0.18
June	33096	2107	36216	1436	0.47
July	30927	1857	35895	1603	0.16
August	26832	988	27905	1284	-0.23
Sept	30548	1074	31389	1238	-0.13
Oct	33010	1196	31924	1253	-0.05
Nov	32032	1140	34164	1312	-0.13
Dec.	25276	1093	31466	1430	-0.24
<b>TOTAL</b>	<b>947234</b>	<b>15969</b>	<b>489336</b>	<b>14049</b>	<b>0.2</b>