



# RR-3(b)

## ADMINISTRATIVE REPORT

Report Date: November 13, 2012  
Contact: Albert Shames  
Contact No.: 604.873.7300  
RTS No.: 9793  
VanRIMS No.: 08-2000-20  
Meeting Date: November 27, 2012

TO: Vancouver City Council  
FROM: General Manager of Engineering Services  
SUBJECT: 2013 Solid Waste Utility (SWU) Rates and By-law Changes

### RECOMMENDATION

A.

- (i) THAT, for properties that receive garbage cart collection service, the 2013 annual garbage collection rates be established as follows:

<u>Cart Size</u>	<u>2012 Rate</u>	<u>2013 Rate</u>	<u>Change (\$)</u>	<u>Change (%)</u>
75 litres	\$99	\$84	(\$15)	(15%)
120 litres	\$117	\$97	(\$20)	(17%)
180 litres	\$142	\$115	(\$27)	(19%)
240 litres	\$166	\$133	(\$33)	(20%)
360 litres	\$216	\$169	(\$47)	(22%)

- (ii) THAT, for properties that receive garbage can collection service, the 2013 annual garbage collection rate for each collection point be increased by \$3 from \$67 to \$70 and the collection rate for each garbage can allocated or purchased be decreased by \$12 from \$42 to \$30.

- (iii) THAT the 2013 annual recycling collection rates remain at \$24 for each dwelling unit and \$8 for each collection point.

- (iv) THAT the 2013 annual green bin collection rate be established as follows:

<u>Cart Size</u>	<u>2012 Rate</u>	<u>2013 Rate</u>	<u>Change (\$)</u>	<u>Change (%)</u>
120 litres	\$46	\$78	\$32	70%
180 litres	\$54	\$92	\$38	70%
240 litres	\$61	\$105	\$44	72%
360 litres	\$75	\$131	\$56	75%

- (v) THAT the annual rate for storage of recycling carts on City streets and lanes be increased by \$1.43 from \$71.40/cart to \$72.83/cart.
- B. THAT the 2013 fee for demolition materials dropped off at the Vancouver Landfill in volumes greater than 50 cubic metres per load be increased by \$10/tonne from \$40/tonne to \$50/tonne.
- C. THAT the Director of Legal Services be instructed to bring forward for enactment revisions to the Solid Waste By-law to increase rates as described in Recommendations A and B, clarify the powers of the City Engineer to supply solid waste services, support the existing green bin program, and implement the Council-approved expansion of the green bin program, substantially as referred to in these recommendations and as substantially set out in Appendix A.

### ***REPORT SUMMARY***

The purpose of this report is to obtain Council authority to set 2013 Solid Waste Utility (SWU) rates and amend the Solid Waste By-law.

SWU rates pay for the cost of residential garbage, recycling, and green bin collection services. These services are a part of the overall operations of the SWU; the utility as a whole also includes the operation of the Vancouver South Transfer Station (VSTS) and the Vancouver Landfill (VLF). Because residential collections customers benefit from the City's operation of the VSTS and the VLF, a portion of the costs of operating these facilities is attributed to the collections programs. Otherwise, VSTS and VLF costs are recovered through fees charged for the drop-off of garbage and other materials. The total expenditure budget for the residential collections programs is \$30.3 million, which represents about 54% of the \$56.1 million total SWU budget.

The SWU garbage, recycling, and green bin collection programs continue to evolve to meet Greenest City Action Plan (GCAP) and Metro Vancouver Regional targets for waste reduction and diversion. This report describes the rate impact of 2013 program changes, most significantly the full implementation of food scraps recycling including a mid-year switch to weekly collection of green bins and bi-weekly collection of garbage for single-family and duplex homes. Because this change will be implemented over a ten-week period starting May 1, the cost structure relating to the new collections schedule will be in effect starting June 1. Therefore, the 2013 collections programs budgets incorporate seven-twelfths of the budget changes described in the food scraps recycling report approved by Council on October 17, 2012.

### **2013 Collection Rates**

The SWU operates on a break-even principle. Due to variability beyond the City's direct control (such as changes to market pricing of recycling commodities, the amount of material requiring collection, fuel prices, and processing and disposal cost variations), each year's actual results vary from budget to some extent. Accordingly, the SWU carries an accumulated net surplus or deficit balance in the Solid Waste Capital Reserve, which resides in the Capital Financing Fund. Annual SWU fees are set to take into account the prior years' accumulated

net surplus or deficit position. Budget estimates for 2013 therefore reflect projected year-end actual costs for 2012.

For December 31, 2012, staff project a total accumulated net surplus of \$940,000 consisting of \$410,000 for the garbage collection program, \$370,000 for the recycling program, and \$160,000 for the green bin program. Staff recommend that \$580,000 of this accumulated surplus be used to offset the overall rate increase for 2013.

The SWU rates charged to individual homeowners for garbage and green bin collection vary depending on the size of cart used. To maximize a recycling incentive, the SWU recycling collection rate is a flat rate based on the cost of providing the service. Each year, staff calculate for both the garbage and green bin collection programs a weighted average rate based on expected collections revenue and the number of bins in use. Assuming that the recommended 2013 rates are approved, the average homeowner will see a weighted average increase of about \$16 or 6.6% in their total solid waste utility rate (i.e., from \$241 in 2012 to \$257 in 2013). This increase is the net effect of a \$27 weighted average reduction in garbage and a \$43 weighted average increase in green bin collection rates, both of which reflect the upcoming change in collection frequencies and the overall cost of implementing the move to full food scrap collection and processing to compost. These initiatives are part of GCAP and Metro Vancouver Solid Waste Plan objectives.

#### Solid Waste Utility Rate Structure

Current SWU rates are based on allocating a fixed cost of service and a volume-based user pay charge based on cart size. Since the implementation of automated collection involving different-sized carts, cart fees have been based on allocating total program costs 50:50 between fixed and volume cost components. Last year's SWU rate report contemplated introducing full volumetric pricing starting in 2013, for the purpose of providing a greater waste diversion incentive through a price signal. Given that the switch to bi-weekly garbage collection will mean significant change for residents, staff recommend delaying the introduction of this change in rate structure and reconsidering it for 2014, once residents have adjusted to the collection service changes to be implemented in 2013.

#### Landfill and Transfer Station Fees

Staff recommend increasing the disposal fee for demolition materials dropped off at the Vancouver Landfill by \$10/tonne to \$50/tonne to reflect market rates and encourage recycling and deconstruction.

#### ***COUNCIL AUTHORITY/PREVIOUS DECISIONS***

On October 7, 1997, Council approved the implementation of the Solid Waste Utility effective January 1, 1998.

On September 30, 2004, Council adopted a rate structure for automated garbage and yard trimmings collection services, including a fixed rate (Service Fee) and a price per unit volume fee (Cart Fee) for each cart.

Solid Waste Utility rates are set annually to recover the full cost of providing services. Rate increases require Council approval.

On July 14, 2011, Council adopted in principle the GCAP including Long-Term Goal 5, "Create Zero Waste," with a 2020 Target to reduce total solid waste going to landfill or incinerator by 50% from 2008 levels.

On October 17, 2012, Council approved full implementation of food scraps recycling including a switch to weekly collection of green bins and bi-weekly collection of garbage for single-family and duplex homes.

### *CITY MANAGER'S/GENERAL MANAGER'S COMMENTS*

City Manager and General Manager of Engineering Services RECOMMEND approval of A through C above.

### *REPORT*

#### *Background/Context*

The SWU operates on a break-even basis. Its costs are recovered through annual utility rates, which are based on a user pay concept and made up of fixed and variable (volumetric based on cart size) components. A surplus (savings) or deficit (cost overrun) accrued in a given year is normally reflected in the following years' rates.

Most of the change in 2013 SWU rates involves the implementation of food scraps recycling, including the switch to weekly collection of green bins and bi-weekly collection of garbage for single-family and duplex homes scheduled for May 2013. Due to fact that the implementation of food scraps recycling will take place mid-year, 2013 rates will only partially reflect the rate changes projected in the food scraps recycling Council report. The full impact of food scraps recycling will be reflected in the 2014 rates.

2014 rates will also be affected by initiatives relating to the City of Vancouver's Extended Producer Responsibility (EPR) strategy. EPR is an environmental policy approach in which the corporate responsibility of producers is extended across the whole life cycle of their products and packaging, from selection of materials to end-of-life. EPR for packaging and printed paper will result in fundamental changes to the administration and delivery of the City's curbside recycling program. Administrative changes are also expected with the City's recycling depots, abandoned garbage, and on-street litter and recycling collections programs.

#### *Strategic Analysis*

The City's SWU budgets are influenced by various factors, some of which are beyond the direct control of the City. Examples include:

- Specific market-driven costs of solid waste collection service such as fuel and processing costs;
- Prices of recycling materials on commodity markets;

- Growth in the number of dwelling units requiring solid waste collection services;
- Metro Vancouver solid waste management operational decisions (e.g. the quantity of regional waste transferred to Vancouver's disposal system, which influences per tonne landfill operating costs); and
- Changes in Metro fees and levies.

Operating and maintenance costs currently comprise 97% of the total cost of the SWU collections programs, with debt charges comprising 2% and the Metro Vancouver solid waste levy comprising 1%. The key budget driver is changes in operations and maintenance of collection program equipment, the VSTS, and the VLF.

### Solid Waste By-law Changes

In addition to rate changes required for the Solid Waste By-law for 2013, staff recommend changes to clarify the powers of the City Engineer to supply solid waste services, support the existing green bin program, and implement the Council-approved extension of the green bin program. A draft of Solid Waste By-law amendments is shown in Appendix A.

### *Implications/Related Issues/Risk (if applicable)*

### *Financial*

### 2013 Collection Rates

SWU rates are set to recover budgeted expenditures in each of the three collections programs. As previously approved by Council, the switch to weekly green bin collection entails \$5 million in capital costs to build transfer capacity to handle the expected increase in organic materials, and \$5.4 million to implement the necessary operational changes for collections and processing and to provide a comprehensive communications program. Costs are to be funded through a loan from the Solid Waste Capital Reserve (SWCR) in the Capital Financing Fund. They will be amortized over 10 years and eight years, respectively, and a proportional amount of the interest and principal will be recognized each year until the loans are repaid. This funding arrangement means that start-up costs will impact collections rates even after the initial year of full food scraps recycling.

The 2013 budget impact of these and other collection program changes is as follows:

- Savings of about \$2.3 million resulting from the change from weekly to bi-weekly garbage collection;
- Incremental costs of \$3.4 million relating to the implementation of full food scraps recycling, including weekly collection of green bin materials;
- Debt repayment of \$900,000 relating to the loans for start-up costs;
- An allocation of \$200,000 for initiatives relating to EPR strategy, including analysis and planning necessary to position the City's recycling collections operations in advance of new provincial stewardship initiatives being implemented for industry's management of waste packaging and printed paper starting in 2014; and
- An allocation of \$100,000 to support hiring a divisional health and safety coordinator, to be distributed between the operational budgets for the three collections programs as well as the budgets for the Transfer Station and Landfill. The Waste Management and Resource Recovery Division has one of the higher WSBC rates in the City due to the

physical nature of the work and requires a dedicated resource to minimize health and safety risks and reduce injuries.

The rate impact of start-up capital repayment and operational changes in the garbage and green bin collection programs will be a weighted average increase of \$16 per household. Nine dollars of this weighted average increase relates to start-up capital repayment and \$7 relates to operational changes in collection programs. This weighted average increase assumes status-quo bin distribution for the first five months of 2013 and a modified bin distribution for the subsequent seven months based on the results of our pilot study of 2,000 homes (see report to Council RTS 9761).

Existing waste collection frequencies (weekly garbage, weekly recycling, and bi-weekly green bin / yard trimmings and food scraps) are planned for the first four months of 2013. Weekly green bin, weekly recycling, and every-other-week garbage collection will be implemented over a ten-week period starting May 1. Due to fact that the change in collection frequencies will take place mid-year, 2013 rates will only partially reflect the rate changes projected in the food scraps recycling Council report. The full impact of the change in collection frequencies will be reflected in the 2014 rates.

As mentioned in the Report Summary, staff project a total accumulated surplus balance of about \$940,000 as at December 31, 2012. This surplus is mainly due to higher than budgeted revenue in the recycling program.

Table 1: 2012 Revenues - Budget vs. Forecast

Collections Program	2012 Budget	2012 Forecast	Variance
Garbage	\$13,898,600	\$13,912,000	\$13,400
Recycling	\$8,898,600	\$9,128,700	\$230,100
Green Bin	\$5,128,200	\$5,140,300	\$12,100
Total	\$27,925,400	\$28,181,000	\$255,600

Some cost savings were realized in the garbage collection program.

Table 2: 2012 Expenditures - Budget vs. Forecast

Collections Program	2012 Budget	2012 Forecast	Variance
Garbage	\$13,536,600	\$13,295,200	(\$241,400)
Recycling	\$8,898,600	\$9,193,000	\$294,400
Green Bin	\$4,984,800	\$5,134,700	\$149,900
Total	\$27,420,000	\$27,622,900	\$202,900

Given these positive budget variances and the resulting projected surplus as at December 31, 2012, it is recommended that 2013 fees be set on the assumption that a total of \$580,000 will be drawn from accumulated surplus:

Table 3: Accumulated Surplus (Deficit)

Collections Program	Projected as at Dec. 31/12 (\$million)	Projected as at Dec. 31/13 (\$million)	Budgeted 2013 Change (\$million)
Garbage	\$0.41	\$0.31	(\$0.10)
Recycling	\$0.37	\$0.05	(\$0.32)
Green Bin	\$0.16	\$0.00	(\$0.16)
Total	\$0.94	\$0.36	(\$0.58)

2013 expenditure budgets for the three collections programs are summarized as follows:

Table 4: Expenditure Budgets - 2012 vs. 2013

Collection Program	2012 Budget	Recommended 2013 Budget	Budget Increase (Decrease)
Garbage	\$13,536,600	\$11,739,500	(\$1,797,100)
Recycling	\$8,898,600	\$9,391,400	\$492,800
Green Bin	\$4,984,800	\$9,131,700	\$4,146,900
Total	\$27,420,000	\$30,262,600	\$2,842,600

As a result of these changes in budgeted expenditures, the average homeowner will see a weighted average increase of about \$16 or 6.6% in their total solid waste utility rate (i.e., \$257 in 2013 vs. \$241 in 2012), assuming that the recommended 2013 SWU fees are approved. This increase is the net effect of a \$27 weighted average reduction in garbage utility rates and a \$43 weighted average increase in green bin utility rates.

### Garbage Collection

Recommended 2013 garbage collection rates are as follows:

Table 5: Garbage Collection Rates - 2012 vs. 2013

Cart Size (litres)	2012 Approved Fees (\$/year)	2013 Recommended Fees (\$/year)	\$ Change (\$/year)
75	\$99	\$84	(\$15)
120	\$117	\$97	(\$20)
180	\$142	\$115	(\$27)
240	\$166	\$133	(\$33)
360	\$216	\$169	(\$47)
Weighted average	\$150	\$123	(\$27)

The overall weighted average decrease from 2012 is made up of a \$7 weighted average decrease in the fixed component of the rate (from \$68 in 2012 to \$61 in 2013) and a \$20 weighted average decrease in the variable component (from \$82 in 2012 to \$62 in 2013). Note that the total weighted average decrease reflects a mid-year change in collection frequencies and is consequently only part of the decrease that will be fully reflected in 2014. The fixed and variable components of the recommended 2013 garbage utility rates are shown in Table 6.

Table 6: Garbage Collection Rates - Fixed vs. Variable

Cart Size (litres)	Fixed Fee (\$/year)	Cart Volume Fee (\$/year)	\$ Total (\$/year)
75	\$61	\$23	\$84
120	\$61	\$36	\$97
180	\$61	\$54	\$115
240	\$61	\$72	\$133
360	\$61	\$108	\$169

These recommended rates assume that approximately \$100,000 will be drawn from accumulated surplus to minimize the impact of program changes. Without the use of this surplus, recommended garbage collection rates would be a weighted average of \$1 higher than those presented in this report.

For properties that are not serviced by automated collection because of lane access restrictions, for example, staff recommend that the rate per garbage can or bag be decreased by \$12 from \$42 to \$30 (since the maximum garbage can or bag size is 100 litres and the variable portion of automated collection rate is \$0.30 per litre). Staff recommend that the rate per stop be increased by \$3 from \$67 to \$70. Therefore, properties that set out two garbage cans per collection will be charged a total of \$127 in 2013 (vs. \$151 in 2012).

### Recycling Collection

Based on the results of our pilot study of 2,000 homes, staff expect to see an increase in the volume of recycling materials collected as a result of the change to bi-weekly garbage collection. The increase will result in additional costs (contractor payments) as well as revenues (proceeds from the sale of recycling commodities). The 2013 net budget impact is approximately \$320,000 in additional budgeted expenditures, which can be funded through the use of part of the accumulated surplus in the recycling collection program. Staff therefore recommend that recycling collection rates remain at current levels for 2013.

Recycling program fees are charged as an annual flat rate with no restrictions on quantity, which provides a waste diversion incentive.

Recommended 2013 recycling collection fees are as follows:

Table 7: Recycling Collection Rates - 2012 vs. 2013

Service Type	2012 Approved Fees (\$/yr)	2013 Recommended Fees (\$/yr)	\$ Change (\$/yr)
Single dwelling unit property:	\$32	\$32	\$0
Multiple dwelling unit property:			
- per dwelling unit	\$24	\$24	\$0
- per collection point	\$ 8	\$ 8	\$0

Staff also recommend that the 2013 annual fee for storage of recycling carts on City streets and lanes be increased by 2% from \$71.40 per cart to \$72.83/cart to match the Garbage Container Licence Program 2013 fee approved by Council on September 18, 2012 for placing commercial garbage and recycling containers of less than 1 cubic yard on City streets and lanes.



## Green Bin Collection

Recommended 2013 green bin collection rates are as follows:

Table 8: Green Bin Collection Rates - 2012 vs. 2013

Cart Size (litres)	2012 Approved Fees (\$/yr)	2013 Recommended Fees (\$/yr)	\$ Change (\$/yr)
120	\$46	\$78	\$32
180	\$54	\$92	\$38
240	\$61	\$105	\$44
360	\$75	\$131	\$56

The overall weighted average increase from 2012 is made up of a \$20 weighted average increase in the fixed component of the rate (from \$32 in 2012 to \$52 in 2013) and a \$23 weighted average increase in the variable component (from \$27 in 2012 to \$50 in 2013). Note that the total weighted average increase reflects a mid-year change in collection frequencies and is consequently only part of the increase that will be fully reflected in 2014. Approximately 17% of the 2013 increase reflects repayment of initial capital costs; green bin collection rates will fall relative to garbage and recycling collection rates once the start-up capital has been repaid (10 years for the \$5 million in capital costs to build transfer capacity and eight years for the \$5.4 million to implement operational changes and to provide a comprehensive communications program).

The fixed and variable fee components of the recommended 2013 green bin collection fees are shown in Table 9.

Table 9: Green Bin Collection Rates - Fixed vs. Variable

Cart Size (litres)	Fixed Fee (\$/year)	Cart Volume Fee (\$/year)	\$ Total (\$/year)
120	\$52	\$26	\$78
180	\$52	\$40	\$92
240	\$52	\$53	\$105
360	\$52	\$79	\$131

These recommended rates assume that approximately \$160,000 will be drawn from accumulated surplus to minimize the impact of program changes. Without the use of this surplus, recommended green bin collection rates would be a weighted average of \$2 higher than those presented in this report.

## Landfill and Transfer Station Fees

Staff recommend changing the Landfill fee for loads of demolition material greater than 50 cubic metres in volume from \$40/tonne to \$50/tonne to reflect market rates and encourage material diversion. The increase will also cover the Regional Services Rate of \$6/tonne on demolition materials to be paid to the Greater Vancouver Sewerage and Drainage District (GVS&DD) starting in 2013.

*CONCLUSION*

Based on budgeted 2013 expenditures, staff recommend that the SWU rates and by-law changes described in this report be adopted for 2013.

\* \* \* \* \*

Proposed Changes to the Solid Waste By-law

BY-LAW NO. \_\_\_\_\_

A By-law to amend Solid Waste By-law No. 8417  
regarding source-separated organic waste, green cart service  
and miscellaneous related amendments

THE COUNCIL OF THE CITY OF VANCOUVER, in public meeting, enacts as follows:

1. This By-law amends the indicated provisions and schedules of the Solid Waste By-law.
2. In section 2:
  - (a) Council strikes out the definition of "food waste", and substitutes:

" "food waste" means coffee grounds, coffee filters, tea bags and tea leaves; eggs and eggshells; dairy products; bread, other baked goods, and cooked or uncooked pasta, batter or dough; meat, poultry, fish, shellfish, and bones, fat, and shells; raw, cooked or processed fruit, vegetables, grains, nuts and seeds, and peelings and shells; oils, butter, and sauces, combined with food; but does not include liquid oils not combined with food, grease, diapers and animal carcasses,"
  - (b) Council strikes out the definition of "yard and food waste cart", and after the definition of "garbage container", Council adds:

" "green cart" means a wheeled container supplied by the city for the deposit of source-separated organic waste,

"green cart service" means the collection of source-separated organic waste by the city,";
  - (c) Council strikes out the definition of "garbage", and substitutes:

" "garbage" means solid waste that is not recyclable material, source-separated organic waste, or materials listed in Schedules F and G to this By-law,";
  - (d) Council adds the following definitions in alphabetical order:

" "private solid waste services" means the removal, collection, transfer, recycling, processing and disposing of solid waste by a person other than the City,

"source-separated organic waste" means food waste, yard waste, and food-soiled newspaper, cardboard, paper towels or paper,"; and

(e) Council strikes out the definition of "solid waste", and substitutes:

" "solid waste" includes garbage, recyclable material, source-separated organic waste, and materials listed in Schedules F and G of this By-law,".

3. Council strikes out sections 3.1 and 3.2, and substitutes:

**"3.1 Authority of City Engineer**

- (1) The City Engineer may provide solid waste services in the City.
- (2) The City Engineer may refuse to provide solid waste services to any person who fails to comply with the provisions of this By-law.

**3.2 Private solid waste services**

Despite section 3.1, a person who is the holder of a business license to provide private solid waste services in the city, may engage in the business of removing, collecting, transferring, recycling, processing and disposing of solid waste in the City, subject to compliance with all applicable by-laws, provincial and federal legislation."

4. Council strikes out section 4.1, and substitutes:

**"4.1 General garbage service**

(1) *Mandatory garbage service*

The owner or occupier of a house or strata duplex must use the garbage collection service provided by the city.

(2) *Additional garbage service*

The owner of a residential property other than a house or strata duplex, or the owner of a non-residential property, may request that the City Engineer provide garbage collection service at the applicable rates provided for in this by-law, and the City Engineer may provide such services if, in the opinion of the City Engineer, such services are compatible with the operation of existing city garbage services. "

5. In section 4.2, Council:

- (a) Strikes out subsection 4.2(1);
- (b) In subsection 4.2(2)(b), strikes out the words "Despite section 4.2(2)(a), but subject to 4.2(3), each", and substitutes "Each";
- (c) In subsection 4.2(2)(c), strikes out the words "Despite section 4.2(2)(a), but subject to 4.2(3), each", and substitutes "Each";
- (d) In subsection 4.2 (3):

- (i) strikes out the words "Despite sections 4.2(2)(a), (b), and (c):", and substitutes "In addition to the minimum garbage cart service:",
  - (ii) adds "and" after 4.2(3)(b), and
  - (iii) strikes out 4.2(3)(c); and
  - (iv) renames 4.2(3)(d) as 4.2(3)(c).
- (e) In subsection 4.2(4), Council strikes out the words "allocations set out in sections 4.2(2)(a), (b), and (c)", and substitutes "requirements in this By-law";
- (f) In subsection 4.2.(4) (a), Council strikes out the words "under section 4.2(3)"; and
- (g) Renumbers the subsections in section 4.2 in the correct numerical order.
6. In section 4.3, Council:
- (a) Strikes out subsection 4.3(1);
  - (b) In subsection 4.3(2)(a), strikes out the words "Subject to section 4.3(3), each", and substitutes "Each";
  - (c) In subsection 4.3(2)(b), strikes out the words "Despite section 4.3(2)(a), but subject to 4.3(3), each", and substitutes "Each";
  - (d) In subsection 4.3(2)(c), strikes out the words "Despite section 4.3(2)(a), but subject to 4.3(3), each", and substitutes "Each";
  - (e) In subsection 4.3 (3):
    - (i) strikes out the words "Despite sections 4.3(2)(a), (b), and (c), but subject to section 4.3(4):", and substitutes "In addition to the minimum garbage can service:",
    - (ii) adds "and" after 4.3(3)(b), and
    - (iii) strikes out 4.3(3)(c); and
    - (iv) renames 4.3.3(d) as 4.3.3(c).
  - (f) In subsection 4.3(4), Council strikes out the words "Despite sections 4.3(3)", and substitutes "Despite the provisions of this By-law:" ;
  - (g) In subsection 4.3(5), Council:
    - (i) strikes out the words "allocations set out in sections 4.3(2)(a), (b), and (c),", and substitutes "requirements in this By-law",
    - (ii) in subsection 4.3(5)(a), strikes out the words "under section 4.3(3)";
  - (h) In subsection 4.3(6), Council strikes out the "words "section 4.3(6)", and substitutes "By-law"; and
  - (i) Renumbers the subsections in section 4.3 in the correct numerical order.

7. In **PART V - RECYCLING CONDITION:**

- (a) Council strikes out section 5.1, and renumbers the subsequent sections in the correct numerical order; and
- (b) In section 5.4, at the end, Council strikes out the quotation mark.

8. In **PART VI - YARD AND FOOD WASTE SERVICE:**

- (a) Council strikes out the title “**YARD AND FOOD WASTE SERVICE**”, and substitutes: “**GREEN CART SERVICE**”;
- (b) Council strikes out sections 6.1 and 6.2, and substitutes:

**“6.1 General green cart service**

(1) *Mandatory green cart service*

The owner or occupier of a house or strata duplex must use the green cart service provided by the city.

(2) *Additional green cart service*

The owner of a residential property other than a house or strata duplex, or the owner of a non-residential property, may request that the City Engineer provide green cart service at the applicable rates set out in this by-law, and the City Engineer may provide such services if, in the opinion of the City Engineer, such services are compatible with the operation of existing city green cart services.

**6.2 Minimum cart size for green cart service**

- (1) The owner or occupier of residential premises which receive green cart service from the City must:
  - (a) obtain from the City the minimum number of green carts required by this by-law; and
  - (b) pay the applicable rates for green carts as set out in Schedule B.
- (2) The owner or occupier of residential premises which receive green cart service from the City must obtain and provide:
  - (a) for houses, rowhouses, apartments, and rental apartments, a minimum of one 120 litre green cart per property; and
  - (b) for strata duplexes, a minimum of one 120 litre green

cart per dwelling unit.”

- (c) In section 6.3, Council:
- (i) strikes out the title “**Additional Yard and Food Waste Cart Service**” and substitutes: “**Additional Green Cart Service**”; and
  - (ii) strikes out the words “yard and food waste”, and substitutes “green”, wherever those words occur in the section;
- (d) Council strikes out section 6.4, 6.5, 6.6, 6.7, and 6.9, and substitutes:

**“6.4 Green cart service to apartments and rowhouses**

- (1) The City may provide full or limited green cart service to apartments and rowhouses if, in the opinion of the City Engineer, such services are compatible with the operation of existing City green cart services.
- (2) Green cart service for apartments and rowhouses will be provided by the City to the strata corporation or cooperative association.

**6.5 Green cart service to non-residential premises**

The City may provide full or limited green cart service to non-residential premises if, in the opinion of the City Engineer, such services are compatible with the operation of existing City green cart services.

**6.6 Responsibilities of owner or occupier**

The owner or occupier of premises to which the City provides green cart service:

- (a) must maintain green carts in a clean and sanitary condition;
- (b) must only dispose of source-separated organic waste in a green cart, except for fall leaves disposed of in accordance with section 6.7;
- (c) must ensure that the cover of a green cart remains completely closed at all times, except when it is necessary to open the cover to dispose of source-separated organic waste;
- (d) must not dispose of source-separated organic waste in a garbage container, except for fall leaves disposed of in accordance with section 6.7;
- (e) must not fill a green cart to a gross weight greater than the applicable weight listed in the following table:

Green cart size	Maximum gross weight
120 litres	50 kg
180 litres	75 kg
240 litres	100 kg
360 litres	150 kg

- (f) must not fill a green cart so that the cover can not be completely closed;
  - (g) must not fill a green cart so that the contents cannot be completely emptied;
  - (h) must not place tree limbs larger than 10 cm in diameter and 0.5 m in length in a green cart; and
  - (i) must return a green cart to the city upon request.”;
- (e) In section 6.8, Council:
- (i) in subsection 6.8(1)(a), strikes out the words “yard and food waste”, and substitutes “green” ,
  - (ii) in subsection 6.8(2), strikes out the words “section 6.8(2)”, and substitutes “By-law” , and
  - (iii) renumbers section 6.8 as 6.7.
9. In **PART VII - SOLID WASTE SERVICE:**
- (a) In the title to section 7.2 and in sections 7.2 and 7.3, Council strikes out the words “**Yard and Food Waste**” and “yard and food waste”, and substitutes “**Green**” or “green”, as applicable, wherever those words appear;
  - (b) Council strikes out section 7.5;
  - (c) Council strikes out section 7.6, and substitutes:
 

**“7.5 Restricted materials**

An owner or occupier of premises which receives City solid waste services must not dispose of, or suffer, permit or allow the disposal of, more than 5% by weight or by volume of total container capacity, of materials listed in Schedule F this by-law, in a garbage container.”; and
  - (d) Council renumbers the subsequent section in the correct numerical order.
10. In **PART VIII - OTHER SOLID WASTE SERVICES AND CONDITIONS**, Council strikes out sections 8.8 and 8.9.



11. In **PART IX - RULES FOR PRIVATE SOLID WASTE COLLECTION**, Council:
- (a) renumbers section 9.3 as 5.8;
  - (b) moves the re-numbered section 5.8 to the end of **PART V - RECYCLING SERVICE**;
  - and, (c) strikes out "9.3", and substitutes "5.8", wherever it occurs in re-numbered section 5.8.
12. In **PART X - RATES, BILLING AND COLLECTION**:
- (a) In section 10.1(1), Council strikes out the words "as allocated by Sections 4.2, 4.3, 5.2, 6.2, and 6.3";
  - (b) In section 10.1(2)(a), Council strikes out the words "yard and food waste", and substitutes "green"; and
  - (c) In section 10.1(3), Council strikes out the words "pursuant to section 4.2(5) or (7)".
13. In Schedule A:
- (a) Council deletes the words "RATES FOR LANDFILL AND TRANSFER STATION" from the title, so that those words appear only once in the title;
  - (c) In Part I,
    - (i) after the words "No Charge", adds:

"Where any solid waste load disposed of at the Vancouver Landfill or the Vancouver South Transfer Station contains 5% or more by weight or by volume of materials listed in Schedule F, a 50% surcharge will be applied to the load.

A solid waste load disposed of the Vancouver Landfill or the Vancouver South Transfer Station , which contains any material listed in Schedule G, will be assessed a surcharge of \$50.00 per load." ; and
    - (ii) changes the rate for demolition materials from "\$40 per tonne" to "\$50 per tonne".
14. In Schedule B, Council:
- (a) In section **I.B**, Council changes garbage cart rates by striking out "\$99", "\$117", "\$142", "\$166", and "\$216", and substituting "\$84", "\$97", "\$115", "\$133", and "\$169" respectively;
  - (b) In section **II.B**, Council changes garbage can rates by striking out "\$67", "\$67", and "\$42", and substituting "\$70", "\$70", and "\$30" respectively ;
  - (c) In section **IV.C**, Council changes additional storage charges by striking out

“\$71.40”, and substituting “\$72.83”;

- (d) Council strikes out section **V - Yard and Food Waste Collection Service** and substitutes:

**“V. Green Cart Collection Service**

**A. Green Cart Rates**

For properties which receive green cart collection service under **PART VI - GREEN CART SERVICE**, per calendar year, payable concurrently with each year’s property taxes

Size of green cart	Rate
120 litres	\$78
180 litres	\$92
240 litres	\$105
360 litres	\$131

**B. Purchase of Additional Green Cart Service**

Each property owner will be allowed one change per calendar year in the level of service under this By-law, without charge. A fee of \$25.00 will be charged for any additional change in that calendar year.”

15. In Schedule F, Council strikes out the words “A surcharge of 50% on the tipping fee may be assessed on garbage loads disposed at the Vancouver Landfill or Vancouver South Transfer Station, that contain 5% or more by weight or by volume of one or more of the following materials:”.

16. A decision by a court that any part of this By-law is illegal, void, or unenforceable severs that part from this By-law, and is not to affect the balance of this By-law.

17. This By-law is to come into force and take effect on January 1, 2013.