

**METRO VANCOUVER REGIONAL DISTRICT  
ZERO WASTE COMMITTEE**

**MEETING**

**Thursday, July 13, 2023**

**1:00 pm**

**Meeting conducted electronically/in-person pursuant to the Procedure Bylaw  
28<sup>th</sup> Floor Committee room, 4515 Central Boulevard, Burnaby, British Columbia**

**REVISED AGENDA<sup>1</sup>**

**1. ADOPTION OF THE AGENDA**

**1.1 July 13, 2023 Meeting Agenda**

That the Zero Waste Committee adopt the agenda for its meeting scheduled for July 13, 2023 as circulated.

**2. ADOPTION OF THE MINUTES**

**2.1 June 15, 2023 Meeting Minutes**

That the Zero Waste Committee adopt the minutes of its meeting held June 15, 2023 as circulated.

*pg. 4*

**3. DELEGATIONS**

**4. INVITED PRESENTATIONS**

**5. REPORTS FROM COMMITTEE OR STAFF**

**5.1 Draft Solid Waste Services 2024 - 2028 Capital Plan**

That the Zero Waste Committee receive for information the report dated July 5, 2023, titled "Draft Solid Waste Services 2024 - 2028 Capital Plan".

*pg. 9*

**5.2 Solid Waste Services Capital Program Expenditure Update as of April 30, 2023**

That the Zero Waste Committee receive for information the report dated July 5, 2023, titled "Solid Waste Services Capital Program Expenditure Update as of April 30, 2023".

*pg. 23*

---

<sup>1</sup> Note: Recommendation is shown under each item, where applicable.

**5.3 Solid Waste Management Plan: Vision and Guiding Principles Engagement Initial Feedback** pg. 29

That the Zero Waste Committee receive for information the report dated July 5, 2023, titled "Solid Waste Management Plan: Vision and Guiding Principles Engagement Initial Feedback".

**Revised 5.4 Draft Tipping Fee Bylaw Updates** pg. 57

That the Zero Waste Committee receive for information the report dated July 7, 2023, titled "Draft Tipping Fee Bylaw Updates".

**Revised 5.5 Smart Waste Program** pg. 137

That the Zero Waste Committee receive for information the report dated July 7, 2023, titled "Smart Waste Program".

**5.6 2022 Disposal Ban Program Update** pg. 140

That the Zero Waste Committee receive for information the report dated July 6, 2023, titled "2022 Disposal Ban Program Update".

**5.7 Manager's Report** pg. 147

That the Zero Waste Committee receive for information the report dated July 6, 2023, titled "Manager's Report".

**6. INFORMATION ITEMS**

**7. OTHER BUSINESS**

**8. BUSINESS ARISING FROM DELEGATIONS**

**9. RESOLUTION TO CLOSE MEETING**

*Note: The Committee must state by resolution the basis under section 90 of the Community Charter on which the meeting is being closed. If a member wishes to add an item, the basis must be included below.*

That the Zero Waste Committee close its meeting scheduled for June 15, 2023 pursuant to section 226 (1) (a) of the *Local Government Act* and the *Community Charter* provisions as follows:

- 90 (1) A part of a council meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
- (g) litigation or potential litigation affecting the municipality; and
  - (i) the receipt of advice that is subject to solicitor-client privilege, including communications necessary for that purpose".

**10. ADJOURNMENT/CONCLUSION**

That Zero Waste Committee adjourn/conclude its meeting of July 13, 2023.

---

Membership:

Kirby-Yung, Sarah (C) – Vancouver

Hodge, Craig (VC) – Coquitlam

Calendino, Pietro – Burnaby

Darling, Steve – Port Coquitlam

Ferguson, Steve – Langley Township

Fry, Pete – Vancouver

Kruger, Dylan – Delta

Muri, Lisa – North Vancouver District

Wallace, Rosemary – Langley City

Weverink, Paul – Anmore

**METRO VANCOUVER REGIONAL DISTRICT  
ZERO WASTE COMMITTEE**

Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Zero Waste Committee held at 1:00 pm on Thursday, June 15, 2023 in the 28<sup>th</sup> Floor Committee Room, 4515 Central Boulevard, Burnaby British Columbia.

**MEMBERS PRESENT:**

Chair, Councillor Sarah Kirby-Yung, Vancouver (arrived at 1:01 pm)  
 Vice Chair, Craig Hodge, Coquitlam  
 Councillor Pietro Calendino, Burnaby  
 Councillor Steve Darling, Port Coquitlam  
 Councillor Steve Ferguson, Langley Township  
 Councillor Peter Fry\*, Vancouver  
 Councillor Dylan Kruger, Delta  
 Councillor Lisa Muri\*, North Vancouver District  
 Councillor Rosemary Wallace\*, Langley  
 Councillor Paul Weverink, Anmore

**MEMBERS ABSENT:**

None.

**STAFF PRESENT:**

Jerry W. Dobrovolny‡, Chief Administrative Officer  
 Paul Henderson, General Manager, Solid Waste Services  
 Morgan Mackenzie, Legislative Services Coordinator, Board and Information Services

In the absence of the Chair, Vice Chair Hodge assumed the role of Chair.

**1. ADOPTION OF THE AGENDA**

**1.1 June 15, 2023 Meeting Agenda**

**It was MOVED and SECONDED**

That the Zero Waste Committee adopt the agenda for its meeting scheduled for June 15, 2023 as circulated.

**CARRIED**

\*denotes electronic meeting participation as authorized by section 3.6.2 of the *Procedure Bylaw*

‡denotes electronic meeting participation

1:01 pm Chair Kirby-Yung arrived at the meeting and assumed the role of Chair.

## 2. ADOPTION OF THE MINUTES

### 2.1 May 23, 2023 Meeting Minutes

#### **It was MOVED and SECONDED**

That the Zero Waste Committee adopt the minutes of its meeting held May 23, 2023 as circulated.

**CARRIED**

## 3. DELEGATIONS

No items presented.

## 4. INVITED PRESENTATIONS

No items presented.

## 5. REPORTS FROM COMMITTEE OR STAFF

### 5.1 Extension of Recycling and Waste Centres Operations and Maintenance Services Contracts

Report dated June 8, 2023, from George Kavouras, Director, Procurement, and Paul Henderson, General Manager, Solid Waste Services, seeking the GVS&DD Board approval of the two-year extensions to agreements with Halton Recycling Ltd., doing business as Emterra Environmental, and GFL Environmental Inc., for operation and maintenance of the North Shore, North Surrey, United Boulevard, Maple Ridge, and Langley recycling and waste centres.

Members discussed the proposed contract extensions, highlighting the need for additional information to be provided regarding the cost increases.

#### **Request of Staff**

Staff were requested to provide additional information to the GVS&DD Board at its meeting of June 30, 2023, attached to the report titled "Extension of Recycling and Waste Centres Operations and Maintenance Services Contracts", regarding the proposed one-time price adjustments referenced on page 2 of the report under *Proposed Contract Extensions*.

#### **It was MOVED and SECONDED**

That the GVS&DD Board:

- a) approve an amendment in the amount of \$61,481,000 for a two-year extension from January 1, 2024 to December 31, 2025 to the existing Contract 16-071 with Halton Recycling Ltd. doing business as Emterra Environmental for operation and maintenance of the North Shore, North Surrey, and United Boulevard recycling and waste centres;

- b) approve an amendment in the amount of \$7,553,000 for a two-year extension from January 1, 2024 to December 31, 2025 to the existing Contract 16-114 with GFL Environmental Inc. for operation and maintenance of the Maple Ridge and Langley recycling and waste centres; and
- c) authorize the Commissioner and the Corporate Officer to execute the required documentation once the Commissioner is satisfied that the amendments should proceed.

**CARRIED**

**5.2 Illegal Dumping Update and Gypsum Management in Metro Vancouver**

Report dated June 8, 2023, from Adriana Velázquez, Senior Project Engineer, Solid Waste Services, and John Ho, Project Engineer, Solid Waste Services, providing the Zero Waste Committee with an update on illegal dumping trends, initiatives to discourage illegal dumping, and regulatory requirements and management practices for gypsum in Metro Vancouver.

Members were provided with a presentation on the illegal dumping of gypsum in the region, highlighting related Metro Vancouver initiatives, estimated cost of recycling and disposal, ongoing work, municipal initiatives to prevent dumping, most frequently reported abandoned items, number of incidents, cost of cleanup, and statistics on abandoned gypsum.

**Request of Staff**

Staff were requested to report back with more information on the availability and accessibility of the gypsum program bags within the region.

Presentation material titled “2022 Illegal Dumping Update” is retained with the June 15, 2023 Zero Waste Committee agenda.

**It was MOVED and SECONDED**

That the Zero Waste Committee receive for information the report dated June 8, 2023, titled “Illegal Dumping Update and Gypsum Management in Metro Vancouver”.

**CARRIED**

**5.3 Waste-to-Energy Facility 2022 Financial Update**

Report dated June 8, 2023, from Brent Kirkpatrick, Lead Senior Engineer, Solid Waste Services, providing the Zero Waste Committee with information on the annual financial update for the Metro Vancouver Waste-to-Energy Facility located in Burnaby.

**It was MOVED and SECONDED**

That the Zero Waste Committee receive for information the report dated June 8, 2023, titled “Waste-to-Energy Facility 2022 Financial Update”.

**CARRIED**

**5.4 2023 Regional Clothing Waste Reduction Campaign Results**

Report dated June 2, 2023, from Larina Lopez, Division Manager, Corporate Communications, External Relations, and Jay Soper, Communications Specialist, External Relations, providing the Zero Waste Committee with the results of the 2023 regional clothing waste reduction campaign, “Think Thrice About Your Clothes”.

Members were provided with a presentation on the “Think Thrice About Your Clothes” campaign, highlighting the background on the campaign, creative executions, promotional strategies, and campaign highlights.

Members were shown a Metro Vancouver video and audio advertisement of the campaign, which are not retained with the agenda.

Presentation material titled “Think Thrice About Your Clothes” is retained with the June 15, 2023 Zero Waste Committee agenda.

**It was MOVED and SECONDED**

That the Zero Waste Committee receive for information the report dated June 2, 2023, titled “2023 Regional Clothing Waste Reduction Campaign Results”.

**CARRIED**

**5.5 Update on Metro Vancouver Engagement with the Love Food Hate Waste Canada Campaign for 2022-2023**

Report dated June 8, 2023, from Joanne Gauci, Senior Policy Advisor, Collaboration and Engagement, External Relations, and Alisha Drinkwater, Communications Specialist, Corporate Communications, External Relations, providing the MVRD Board with the *Love Food Hate Waste Canada* behaviour change campaign, which is delivered across Canada by Metro Vancouver through the National Zero Waste Council.

Members were provided with a presentation on the regional and national behaviour change campaign, highlighting food waste statistics, performance highlights, various campaign content examples and the 2023 Food Waste Action Week.

Presentation material titled “Love Food Hate Waste Canada Update 2022-2023” is retained with the June 15, 2023 Zero Waste Committee agenda.

**It was MOVED and SECONDED**

That the MVRD Board receive for information the report dated June 8, 2023, titled “Update on Metro Vancouver Engagement with the Love Food Hate Waste Canada Campaign for 2022-2023”.

**CARRIED**

**5.6 Manager’s Report**

Report dated June 7, 2023, from Paul Henderson, General Manager, Solid Waste Services, providing the Zero Waste Committee with updates on the regional bottom ash beneficial use pilot, efforts to partner with stakeholders to develop a sustainable take-out food packaging guide, and the 2023 Zero Waste Committee Work Plan.

**It was MOVED and SECONDED**

That the Zero Waste Committee receive for information the report dated June 7, 2023, titled “Manager’s Report”.

**CARRIED**

**6. INFORMATION ITEMS**

No items presented.

**7. OTHER BUSINESS**

No items presented.

**8. BUSINESS ARISING FROM DELEGATIONS**

No items presented.

**9. RESOLUTION TO CLOSE MEETING**

**It was MOVED and SECONDED**

That the Zero Waste Committee close its meeting scheduled for June 15, 2023 pursuant to section 226 (1) (a) of the *Local Government Act* and the *Community Charter* provisions as follows:

“90 (1) A part of a council meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:

(g) litigation or potential litigation affecting the municipality.”

**CARRIED**

**10. ADJOURNMENT/CONCLUSION**

**It was MOVED and SECONDED**

That Zero Waste Committee adjourn its meeting of June 15, 2023.

**CARRIED**

(Time: 2:17 pm)

---

Morgan Mackenzie,  
Legislative Services Coordinator

---

Sarah Kirby-Yung,  
Chair



To: Zero Waste Committee

From: Lynne Vidler, Lead Senior Engineer, Solid Waste Services

Date: July 5, 2023 Meeting Date: July 13, 2023

Subject: **Draft Solid Waste Services 2024 - 2028 Capital Plan**

---

### **RECOMMENDATION**

That the Zero Waste Committee receive for information the report dated July 5, 2023, titled “Draft Solid Waste Services 2024 - 2028 Capital Plan”.

---

### **EXECUTIVE SUMMARY**

The draft 2024 - 2028 Solid Waste Services Capital Plan has been prepared following direction received at the April 19, 2023 Metro Vancouver Board Budget Workshop and continues to maintain the Solid Waste customer level of service objectives. As part of Metro Vancouver’s focus on enhancing transparency and governance of the Capital Plan, this report allows the Zero Waste Committee to provide comments on the draft Capital Plan, which will then be incorporated into the Solid Waste Services Capital Plan and included in the Fall budget presentations to the Zero Waste Committee and the Board. Capital program expenditures are funded through debt charges in the annual operating budget. Solid Waste Services closely monitors waste flows as tipping fees are the primary revenue source for the solid waste system.

The estimated 2024 Capital Cash Flow is \$44.1M with a total estimated spend of \$314.7M over the five years. With respect to the common four years compared to the prior cycle’s capital plan, the estimated spend has increased by \$36.6M. This is offset by 2023 projects re-budgeted in later years, so the overall 2023-2027 plan is increasing by \$15.5M. Increases in recycling and waste centre and waste-to-energy facility costs are offset by projects moved out of the capital plan window. The first year of costs for Phase 2 of the district energy system, connecting to Burnaby’s district energy utility, is included in 2028 of the capital plan. Increases in the expected scale of the district energy project will result in an increased GHG reduction, from an estimated 45,000 tonnes CO<sub>2</sub>eq to 70,000 tonnes CO<sub>2</sub>eq annually, equivalent to removing 15,000 vehicles off the road in perpetuity.

### **PURPOSE**

To present to the Zero Waste Committee the draft Solid Waste Services 2024 - 2028 Capital Plan for input and feedback, which will then be incorporated into the fall budget approvals.

### **BACKGROUND**

On April 19, 2023, Metro Vancouver held a Board Budget Workshop with the objective to seek direction for the preparation of the 2024 - 2028 Financial Plan. In addition, Metro Vancouver is looking to enhance the transparency and governance of the capital planning process and give the Committee the opportunity to provide input and feedback earlier to be incorporated into the 2024 - 2028 Financial Plan.

**Solid Waste Services**

Solid Waste Services’ initiatives within the draft 2024 - 2028 Capital Plan are guided by customer level of service objectives, specifically:

- Offering exceptional customer service at Metro Vancouver solid waste facilities;
- Continuously improving services offered at the recycling and waste centres, including enhanced recycling opportunities;
- Providing cost-effective disposal for ratepayers through sound financial management and long-term planning; and
- Monitoring and enhancing performance metrics.

**CAPITAL PLAN HIGHLIGHTS**

The draft 2024 - 2028 Capital Plan includes \$44.1M for 2024 and a total of \$314.7M over the five years, or an average of \$62.9M per year (Attachment 1). There are 22 projects and the largest six projects make up 74.3% of the capital spending over the next five years. The 2024 capital cash flow is \$2.9M (6.2%) less than last year’s projection for 2024. The primary reason for the decrease is cash flow deferrals due to timing issues for delivery of the projects.

The spending over the next five years is driven by the need to improve the resilience of the solid waste system, replace aging systems particularly related to the Waste-to-Energy Facility, and create opportunities for waste reduction and greenhouse gas emissions reduction. Biosolids processing at the Waste-to-Energy Facility will strengthen the regional solid waste system and liquid waste system. The Waste-to-Energy Facility district energy system will substantially reduce greenhouse gas emissions in the region.

The acid gas reduction project has been moved into future years, based on ambient air quality data demonstrating that the initiative is not needed at this time. A request to update the Waste-to-Energy Facility provincial Operating Certificate is under development seeking approval for the deferral.

Key capital projects planned or ongoing in 2024 – 2028 for Solid Waste Services include the following:

<b>Infrastructure Type</b>	<b>Project Name</b>	<b>Primary Driver</b>	<b>Proposed 2024 Cashflow</b>
Waste to Energy Facility	Waste-to-Energy Facility Maintenance	Maintenance	\$ 9,900,000
Waste to Energy Facility	Waste-to-Energy Facility Biosolids Processing	Resilience	\$ 8,000,000
Waste to Energy Facility	Generation Bank Replacement	Maintenance	\$ 5,900,000
Waste to Energy Facility	Refuse Crane	Maintenance	\$ 5,650,000
Waste to Energy Facility	District Energy	Resilience	\$ 2,500,000

Infrastructure Type	Project Name	Primary Driver	Proposed 2024 Cashflow
Recycling and Waste Centres	Weigh Scale Replacement	Maintenance	\$ 2,500,000
	Other Projects	Various	\$ 9,600,000
			\$ 44,050,000

The capital program for Solid Waste Services is funded by long-term debt, contributions from the operating budget, and some external (interagency) contributions.

**Waste-to-Energy Facility District Energy Project**

The District Energy project is being developed in two phases – Phase 1 budget was approved in 2021 with construction expected from 2024 to 2026. Phase 2 construction is expected in 2028 to 2030. Phase 1 scope has been expanded due to increased scale of the future district energy system. This increase in scope will result in an increased GHG reduction, from an estimated 45,000 tonnes CO2eq to 70,000 tonnes CO2eq annually. This would provide heat and hot water for up to 50,000 homes. Phase 1 will provide energy to the River District Energy system in Vancouver, Phase 2 will provide energy to Metrotown and Edmonds, with the option to extend the network to include BCIT, Burnaby Hospital, and projects in New Westminster. The Phase 1 piping will be sized to accommodate Phase 2 projects.

**Capital Plan Changes**

Metro Vancouver’s annual capital planning process allows the Board to adjust the capital budget once a year, in the fall, to accommodate changes required to fund projects transitioning from one phase to another (e.g. design phase to construction phase), and in response to new or changing project needs, emerging issues, and changing priorities.

Proposed changes in the draft 2024 - 2028 Capital Plan can be described within the following categories:

- Projected Carry-forward – Project expenditures which were expected to occur in 2023, but are now scheduled to occur in 2024 or after.
- Net Deferral – Project expenditures that have been deferred or re-scheduled beyond 2027.
- Cost Adjustments – Project cashflow changes resulting from project budget changes not related to scope.
- New Scope – Project cashflow changes resulting from project budgets specifically related to project scope change.

The following table summarizes the total proposed capital plan adjustments in the draft 2024 - 2028 Capital Plan:

(\$Millions)

Prior cycle Cashflow 2023 - 2027	Cashflow 2023	Adjustments to 2024 - 2027 Capital Plan					Cashflow 2028	Draft Capital Plan 2024 - 2028
		Projected Carry-Forward	Net Deferral	Cost Adjustments	New scope	Total		
244.5	(42.9)	30.2	(45.5)	12.7	39.3	36.6	76.5	314.7

The draft 2024 - 2028 Capital plan expected cash flow has increased for the common 4 years from last year’s budget, with an increase of \$36.6M over what was projected last year. This represents about an 18.2% increase. This is offset by 2023 projects re-budgeted in later years, so the overall 2023-2027 plan is increasing by \$15.5M.

**Capital Plan Review Process**

Solid Waste Services diligently reviewed their schedules to accommodate any Carry Forwards and Cost Adjustments by deferring projects, where possible.

Throughout the capital planning process, Solid Waste reviews each project line to ensure efficient project timing, deliverability, and scope. This exercise was performed in preparing the Solid Waste Services 2024 - 2028 capital plan and resulted in the deferral of \$45.5 million in capital expenditures into future years.

**ALTERNATIVES**

This is an information report. No alternatives are presented.

**FINANCIAL IMPLICATIONS**

The draft 2024 - 2028 Capital Plan includes \$44.1M for 2024 and a total of \$314.7M over the five years, an average of \$62.9M per year. Any feedback and input from the Zero Waste Committee will be incorporated into the fall budget presentations to the Committees and Boards.

Capital expenditures are funded through debt charges in the annual operating budget and five-year financial plan. The Solid Waste function revenues are almost exclusively from tipping fee revenues with revenues based on the amount of garbage disposed.

**CONCLUSION**

The 2024 - 2028 Capital Plan illustrates how Solid Waste Services supports projects that enhance recycling opportunities and provide cost-effective disposal for ratepayers, and the financial impacts of these projects over the next five years.

The presentation of the draft 2024 - 2028 Capital Plan for Solid Waste Services provides the Zero Waste Committee the opportunity to provide input and feedback which will be incorporated into the fall budget budget presentations to the Committees and Boards.

**Attachments**

1. Draft Solid Waste Services 2024 - 2028 Capital Plan
2. Presentation re: Draft Solid Waste Services 2024 - 2028 Capital Plan

60318990

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
 CAPITAL PORTFOLIO  
 SOLID WASTE SERVICES  
 DRAFT 2024 CAPITAL BUDGET AND 2024-2028 CAPITAL PLAN

	CAPITAL BUDGET FOR APPROVAL	2024 CAPITAL CASH FLOW	2025 CAPITAL CASH FLOW	2026 CAPITAL CASH FLOW	2027 CAPITAL CASH FLOW	2028 CAPITAL CASH FLOW	2024 TO 2028 TOTAL CAPITAL CASH FLOW	ACTIVE PHASE	PRIMARY DRIVER
<b>CAPITAL EXPENDITURES</b>									
<b>Landfills</b>									
Alternative Fuel and Recyclables Recovery Centre	\$ -	\$ -	\$ -	\$ 1,500,000	\$ 20,000,000	\$ 20,000,000	\$ 41,500,000	Not Started	Opportunity
Coquitlam Landfill Gas Collection Upgrades	8,100,000	1,500,000	-	-	-	-	1,500,000	Multiple	Maintenance
Coquitlam Landfill Maintenance	13,600,000	2,350,000	3,600,000	1,600,000	-	-	7,550,000	Multiple	Resilience
<b>Total Landfills</b>	<b>\$ 21,700,000</b>	<b>\$ 3,850,000</b>	<b>\$ 3,600,000</b>	<b>\$ 3,100,000</b>	<b>\$ 20,000,000</b>	<b>\$ 20,000,000</b>	<b>\$ 50,550,000</b>		
<b>Recycling and Waste Centres</b>									
Langley Recycling and Waste Centre Maintenance	\$ -	\$ -	\$ 1,000,000	\$ 2,500,000	\$ -	\$ -	\$ 3,500,000	Not Started	Maintenance
Langley Recycling Depot Development	15,000,000	1,000,000	6,000,000	7,750,000	-	-	14,750,000	Construction	Upgrade
Maple Ridge Recycling and Waste Centre Upgrades	2,000,000	500,000	750,000	750,000	-	-	2,000,000	Construction	Maintenance
North Shore Recycling and Waste Centre Compactor Replacement	-	-	-	4,000,000	-	-	4,000,000	Not Started	Maintenance
North Surrey Recycling and Waste Centre Maintenance	3,000,000	100,000	-	2,000,000	1,500,000	-	3,600,000	Multiple	Maintenance
North Surrey Recycling Depot Development	36,000,000	1,000,000	4,000,000	6,750,000	-	-	11,750,000	Construction	Upgrade
Weigh Scale Replacement	3,500,000	2,500,000	-	-	-	-	2,500,000	Construction	Maintenance
<b>Total Recycling and Waste Centres</b>	<b>\$ 59,500,000</b>	<b>\$ 5,100,000</b>	<b>\$ 11,750,000</b>	<b>\$ 23,750,000</b>	<b>\$ 1,500,000</b>	<b>\$ -</b>	<b>\$ 42,100,000</b>		
<b>Waste To Energy Facilities</b>									
Acid Gas Reduction	\$ 2,000,000	\$ 800,000	\$ 750,000	\$ -	\$ -	\$ -	\$ 1,550,000	Design	Upgrade
Biosolids Processing	23,850,000	8,000,000	7,000,000	4,000,000	2,000,000	-	21,000,000	Construction	Resilience
Bottom Ash Processing	6,800,000	50,000	-	-	-	-	50,000	Construction	Opportunity
Generation Bank Replacement	12,000,000	5,900,000	3,000,000	3,000,000	-	-	11,900,000	Construction	Maintenance
Primary Economizer Replacement	7,000,000	500,000	-	-	-	-	500,000	Construction	Maintenance
Refuse Crane	17,850,000	5,650,000	5,800,000	5,000,000	-	-	16,450,000	Construction	Maintenance
Secondary Economizers Replacement	6,000,000	1,750,000	3,000,000	1,000,000	-	-	5,750,000	Construction	Maintenance
Special Handle Waste Direct Feed System	-	-	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000	Not Started	Opportunity
Waste-to-Energy Facility Maintenance	30,750,000	9,900,000	9,700,000	3,650,000	7,250,000	-	30,500,000	Multiple	Maintenance
WTE Facility District Energy Phase 2	-	-	-	-	-	50,000,000	50,000,000	Not Started	Resilience
WTE Facility District Heating	75,300,000	2,500,000	21,200,000	22,000,000	24,600,000	4,000,000	74,300,000	Construction	Resilience
WTE Facility District Heating Opportunities	2,300,000	50,000	-	-	-	-	50,000	Construction	Opportunity
<b>Total Waste To Energy Facilities</b>	<b>\$ 183,850,000</b>	<b>\$ 35,100,000</b>	<b>\$ 52,950,000</b>	<b>\$ 41,150,000</b>	<b>\$ 36,350,000</b>	<b>\$ 56,500,000</b>	<b>\$ 222,050,000</b>		
<b>TOTAL CAPITAL EXPENDITURES</b>	<b>\$ 265,050,000</b>	<b>\$ 44,050,000</b>	<b>\$ 68,300,000</b>	<b>\$ 68,000,000</b>	<b>\$ 57,850,000</b>	<b>\$ 76,500,000</b>	<b>\$ 314,700,000</b>		

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
 CAPITAL PORTFOLIO  
 SOLID WASTE SERVICES  
 DRAFT 2024 CAPITAL BUDGET AND 2024-2028 CAPITAL PLAN

	CAPITAL BUDGET FOR APPROVAL	2024 CAPITAL CASH FLOW	2025 CAPITAL CASH FLOW	2026 CAPITAL CASH FLOW	2027 CAPITAL CASH FLOW	2028 CAPITAL CASH FLOW	2024 TO 2028 TOTAL CAPITAL CASH FLOW	ACTIVE PHASE	PRIMARY DRIVER
<b>SUMMARY BY DRIVER</b>									
Growth	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		
Maintenance	90,200,000	28,300,000	23,250,000	21,900,000	8,750,000	-	82,200,000		
Resilience	112,750,000	12,850,000	31,800,000	27,600,000	26,600,000	54,000,000	152,850,000		
Upgrade	53,000,000	2,800,000	10,750,000	14,500,000	-	-	28,050,000		
Opportunity	9,100,000	100,000	2,500,000	4,000,000	22,500,000	22,500,000	51,600,000		
<b>Total</b>	<b>\$ 265,050,000</b>	<b>\$ 44,050,000</b>	<b>\$ 68,300,000</b>	<b>\$ 68,000,000</b>	<b>\$ 57,850,000</b>	<b>\$ 76,500,000</b>	<b>\$ 314,700,000</b>		



## SOLID WASTE SERVICES

2024 – 2028 DRAFT CAPITAL PLAN

Paul Henderson, P.Eng.

General Manager, Solid Waste Services

Zero Waste Committee, July 13, 2023

**metro**vancouver

### CUSTOMER LEVELS OF SERVICE OBJECTIVES

1. Offer exceptional customer service at the Metro Vancouver solid waste facilities
2. Continuously improve services offered at the recycling and waste centres, including enhanced recycling opportunities
3. Cost effective disposal for ratepayers through sound financial management and long-term planning
4. Monitor and enhance performance metrics

**metro**vancouver

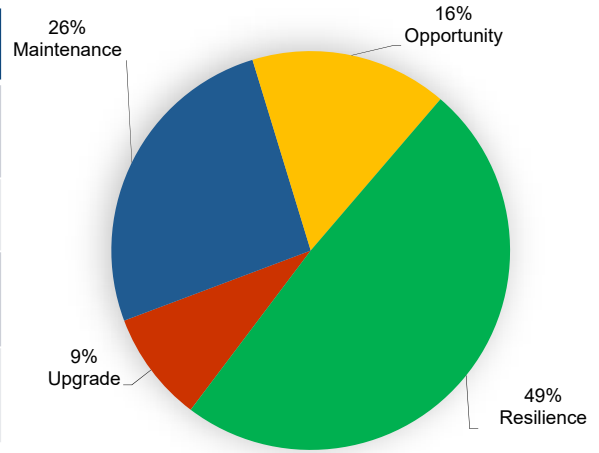
2



# CAPITAL PLAN DRIVERS

## Solid Waste Services

Driver	Outcome	% 2024 - 2028 Capital Plan
Upgrade	Provide enhanced levels of service or achieve a level of service	9%
Maintenance	Maintain assets in a state of good repair	26%
Opportunity	Reduce life-cycle cost of services, advance Board strategic plan goals	16%
Resilience	Endure impacts resulting from seismic events and climate change	49%



# MAJOR PROJECTS AND CHANGES

## Metro Vancouver Assets: Solid Waste



# NORTH SURREY AND LANGLEY RECYCLING DEPOTS

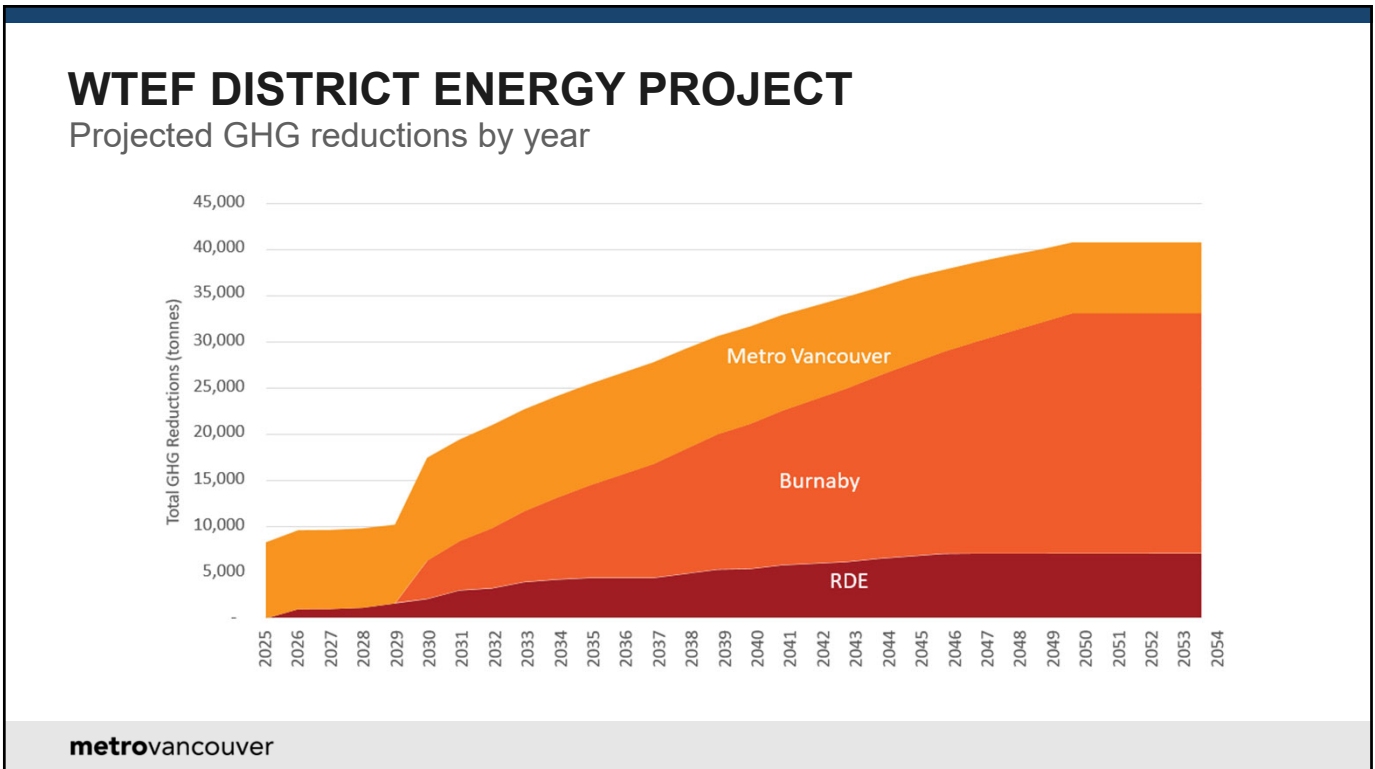
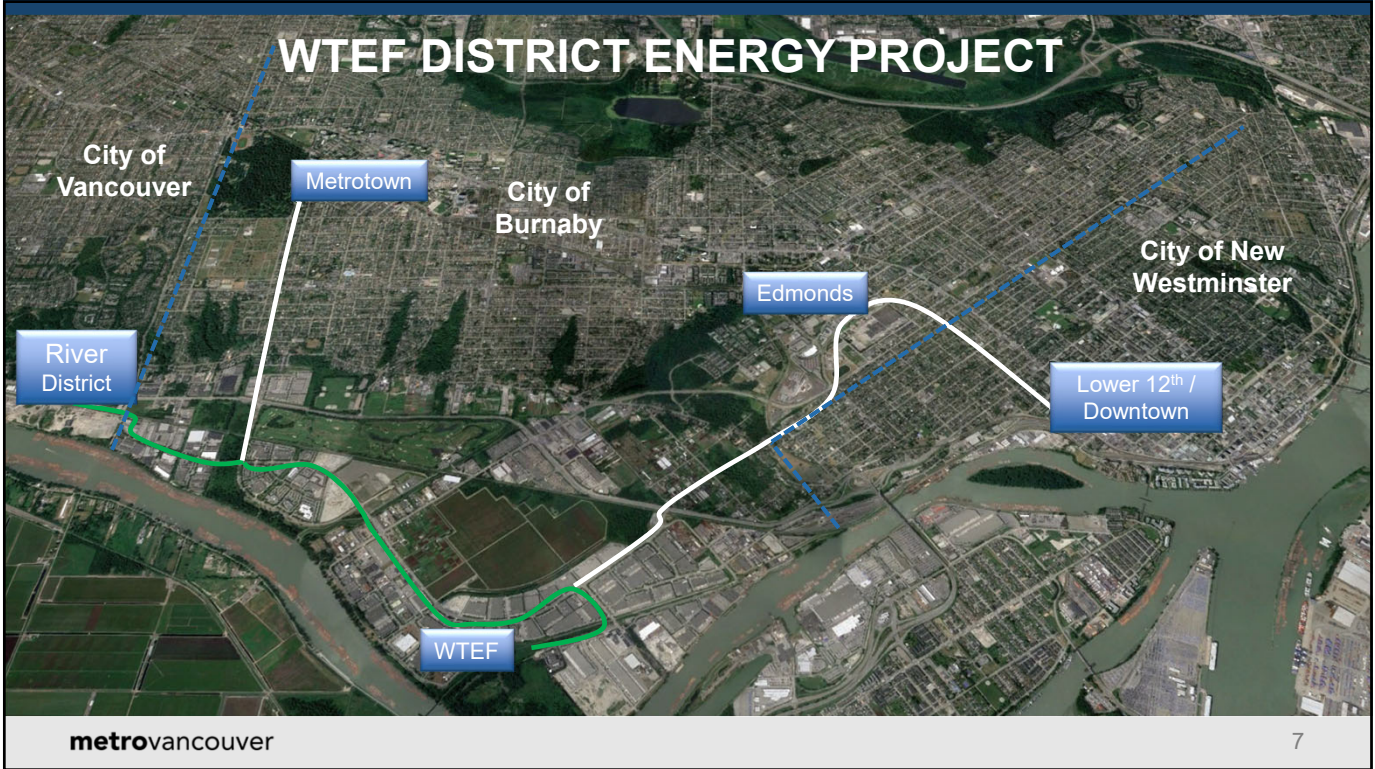


metrovancover

5



Biosolids Processing





## SOLID WASTE

### 2024 - 2028 CAPITAL PLAN EXPENDITURES

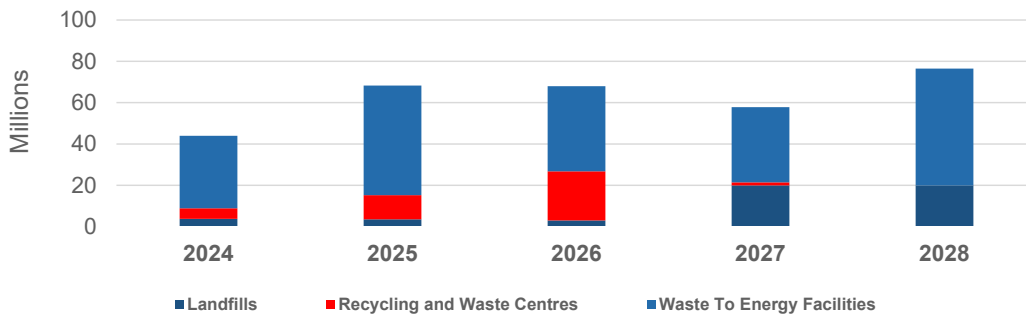
**Overview:**

- 2024 - 2028 Capital Plan: \$314.7M
- 2024 cash flow: \$44.1M

**Drivers:**

- Waste-to-Energy Facility
  - Capital replacement
  - District Energy
  - Biosolids Processing
- North Surrey and Langley Recycling Depots

2024 – 2028 Solid Waste Services Capital Plan



## SOLID WASTE PROPOSED 2024 - 2028 CAPITAL PLAN

(\$ Millions)

Prior Cycle Cash flow 2023 - 2027	Cashflow 2023	Adjustments to 2024 - 2027 Capital Plan					Cash flow 2028	Draft Capital Plan 2024 - 2028
		Carry- Forward	Net Deferrals	Cost Adjustments	New Scope	Total		
244.5	(42.9)	30.2	(45.5)	12.7	39.3	36.6	76.5	314.7

## NEXT STEPS

- Incorporate feedback from Committee in the 2024-2028 Capital Plan
- Present revised 2024-2028 Capital Plan and 2024 Operating and Capital Budgets for Committee consideration in fall
- Continue to examine and implement continuous improvement strategies



United Boulevard Recycling and Waste Centre

Thank you

**metro**vancouver

---

To: Zero Waste Committee

From: Parul Sidhu, Assistant Project Engineer, Solid Waste Services

Date: July 5, 2023 Meeting Date: July 13, 2023

Subject: **Solid Waste Services Capital Program Expenditure Update as of April 30, 2023**

---

### **RECOMMENDATION**

That the Zero Waste Committee receive for information the report dated July 5, 2023, titled “Solid Waste Services Capital Program Expenditure Update as of April 30, 2023”.

---

### **EXECUTIVE SUMMARY**

The capital expenditure reporting process, as approved by the GVS&DD Board (the Board), provides for regular status reports on capital expenditures three times per year. This is the first report for 2023 which includes both the overall capital program for the solid waste utility with a multi-year view of capital projects and the actual capital spending for the 2023 fiscal year to April 30, 2023, in comparison to the annual Capital Cash Flow. As of April 30, 2023, the capital expenditures for Solid Waste Services are \$1.3 million compared to a prorated annual Capital Cash Flow of \$14.3 million. The underspend is primarily due to the timing of the pre-construction phases of Waste-to-Energy Facility and recycling and waste centre projects. Projects underway are expected to be completed within approved budgets.

### **PURPOSE**

The purpose of this report is to provide an update on the status of the Solid Waste Services capital program and financial performance to April 30, 2023.

### **BACKGROUND**

The capital expenditure reporting process, as approved by the Board, provides for regular status reports on capital expenditures with interim reports sent to the Water, Liquid Waste, and Zero Waste Committees, in July and October, with a final year-end report to the Committees and the Boards in April of each year.

The series of three reports for 2023 look at both the overall capital program for Solid Waste Services with a multi-year view of capital projects and the actual capital spending for 2023 fiscal year to April 30, 2023 in comparison to the annual Capital Cash Flow.

### **2022 CAPITAL EXPENDITURES**

#### **Solid Waste Capital Program Funding**

The capital spending for Solid Waste Services is funded through the Solid Waste Services operating budget by a combination of contribution to capital (pay-as-you-go funding) and debt service costs, (principal and interest payments) which is generated annually from the regional ratepayers through tipping fees. As a result, the annual impact on the ratepayers is less than the level of budgeted capital expenditures.

**Overall Capital Program**

The overall capital program for Solid Waste Services includes capital projects that require multiple years to complete. These projects are broken down into various phases such as project definition, pre-design, detailed design, and construction. The status at the completion of each phase informs appropriate costing of subsequent phases.

Expected capital costs for a number of projects were updated as part of the 2023-2027 capital plan to reflect the most current projections for these projects. With the rare exception, projects tend to complete with actual spending below the approved limits predominantly due to savings on budgeted contingency amounts.

Attachment 1 provides detail behind the summary information, including specific capital projects, summary financial information and notes. Attachment 2 provides additional project status information of some of the key projects.

**2023 Capital Program Summary**

The Metro Vancouver financial planning process includes Board approval of both an annual Operating Budget (operations, contribution to capital and debt service) and an annual Capital Cash Flow for the planned capital infrastructure projects. The annual Capital Cash Flow comprises the projected spending for a list of capital projects either continuing or to be started within the calendar year.

As of April 30, 2023, the capital expenditures for Solid Waste Services are \$1.3 million compared to a prorated budget of \$14.3 million. The underspend is primarily due to longer than expected pre-construction phases for a number of Waste-to-Energy Facility projects and recycling and waste centre projects. The pre-construction phases include detailed design and third party engineering reviews.

Table 1 provides a summary of the 2023 actual capital spending to April 30, 2023 compared to the prorated annual Capital Cash Flow.

**Table 1 – April 2023 Capital Spending Summary**

<b>Solid Waste Services</b>	<b>2023 Cash Flow to April 30, 2023</b>	<b>Actual Expenditures to April 30, 2023</b>	<b>% of 2023 Prorated Cash Flow</b>
Landfills	\$ 2,051,000	\$ 633,690	31%
Recycling and Waste Centres	4,034,000	228,844	6%
Waste to Energy Facilities	8,201,000	460,580	6%
	<b>\$ 14,286,000</b>	<b>\$ 1,323,113</b>	<b>9%</b>



## **ALTERNATIVES**

This is an information report. No alternatives are presented.

## **FINANCIAL IMPLICATIONS**

Capital expenditures are funded internally (pay-as-you-go) and through debt financing. As capital expenditures are incurred, short-term financing is secured and converted twice per year to long-term debt through the Municipal Finance Authority.

## **CONCLUSION**

As of April 30, 2023, the capital expenditures for Solid Waste Services are \$1.3 million compared to a prorated annual Capital Cash Flow of \$14.3 million. The underspend is primarily due to the timing of the pre-construction phases of the Waste-to-Energy Facility and recycling and waste centre projects. Ongoing capital projects will be monitored to ensure they remain within total project budgets.

## **Attachments**

1. Solid Waste Services Capital Project Update – April 30, 2023
2. Solid Waste Services Capital Project Status Information

60722159

Metro Vancouver  
 Solid Waste Services - Capital Project Update  
 As of April 30, 2023



Project Name	Primary Driver	Project Location	Years											Approved Capital Budget	Current Estimated Total Project Cost	% Complete	
			2023-2027 Capital Plan					2028	2029	2030	2031	2032					
			2023	2024	2025	2026	2027										
<b>Landfills</b>																	
Alternative Fuel and Recyclables Recovery Centre	Opportunity	Coquitlam													-	60,000,000	0%
Coquitlam Landfill East Closure	Resilience	Coquitlam													5,000,000	5,000,000	1%
Coquitlam Landfill Gas Collection Upgrades	Maintenance	Coquitlam													8,100,000	8,100,000	82%
Coquitlam Landfill Lot 3 Development	Resilience	Coquitlam													5,000,000	5,000,000	95%
Coquitlam Landfill Pump Station Upgrade	Maintenance	Coquitlam													3,400,000	3,400,000	50%
Coquitlam Landfill: Leachate Collection System Grade Realignment	Resilience	Coquitlam													1,000,000	1,000,000	0%
<b>Total Landfills</b>															<b>22,500,000</b>	<b>82,500,000</b>	
<b>Recycling and Waste Centres</b>																	
Central Surrey Recycling and Waste Centre	Growth	Surrey													50,300,000	50,300,000	99%
Langley Recycling Depot Development	Upgrade	Langley Township													5,500,000	15,000,000	0%
Maple Ridge Transfer Station Upgrades	Maintenance	Maple Ridge													2,000,000	2,000,000	0%
North Shore Recycling and Waste Centre Compactor Replacement	Maintenance	North Vancouver													-	4,000,000	0%
North Surrey Recycling and Waste Centre Compactor Replacement	Maintenance	Surrey													3,000,000	3,000,000	0%
North Surrey Recycling Depot Development	Upgrade	Surrey													29,500,000	35,590,000	1%
Weigh Scale Replacement	Maintenance	Regional													3,000,000	3,500,000	0%
<b>Total Pump Stations</b>															<b>93,300,000</b>	<b>113,390,000</b>	
<b>Waste To Energy Facilities</b>																	
Acid Gas Reduction	Upgrade	Burnaby													2,000,000	50,250,000	1%
Air System Piping Replacement	Maintenance	Burnaby													300,000	300,000	0%
Biosolids Processing	Resilience	Burnaby													22,500,000	23,850,000	2%
Boiler and APC Roof Replacement	Maintenance	Burnaby													1,750,000	3,000,000	0%
Bottom Ash Crane Replacement	Maintenance	Burnaby													1,400,000	1,400,000	5%
Bottom Ash Processing	Opportunity	Burnaby													6,800,000	6,800,000	95%
Carbon Silo Replacement	Maintenance	Burnaby													-	2,400,000	0%
Compressed Air System Replacement	Maintenance	Burnaby													3,000,000	3,000,000	3%
Electrical Transformers Replacement	Maintenance	Burnaby													5,000,000	5,000,000	1%
Fabric Filter Hopper and Pulse Header Refurbishment	Maintenance	Burnaby													2,150,000	2,150,000	6%
Feed Hopper/Chute	Maintenance	Burnaby													2,600,000	2,600,000	90%
Feedwater Pump Replacement	Maintenance	Burnaby													1,000,000	1,000,000	60%
Fire Suppression System	Maintenance	Burnaby													1,400,000	1,400,000	1%
Fly Ash Silo Refurbishment	Maintenance	Burnaby													1,000,000	1,500,000	0%
Generation Bank Replacement	Maintenance	Burnaby													9,000,000	12,000,000	0%
Lime Silo Replacement	Maintenance	Burnaby													-	3,600,000	0%
Primary Economizer Replacement	Maintenance	Burnaby													7,000,000	7,000,000	35%
Primary Superheaters Replacement	Maintenance	Burnaby													4,000,000	4,000,000	0%
Programmable Logic Controllers Replacement	Maintenance	Burnaby													2,000,000	2,000,000	1%
Pug Mill Enclosure Ventilation System Replacement	Maintenance	Burnaby													1,000,000	1,500,000	0%
Refuse Crane	Maintenance	Burnaby													16,800,000	17,850,000	1%
Refuse Pit Bunker Door Replacement	Maintenance	Burnaby													600,000	1,000,000	0%
Secondary Economizers Replacement	Maintenance	Burnaby													6,000,000	6,000,000	0%
Soot Blower Piping Replacement	Maintenance	Burnaby													300,000	300,000	0%
Special Handle Waste Direct Feed System	Opportunity	Burnaby													-	10,000,000	0%
Stack Refurbishment	Maintenance	Burnaby													350,000	600,000	0%
WTE Facility District Heating	Opportunity	Burnaby													55,000,000	75,300,000	2%
WTE Facility District Heating Opportunities	Opportunity	Burnaby													2,300,000	2,300,000	54%
<b>Total Waste To Energy Facilities</b>															<b>155,250,000</b>	<b>248,100,000</b>	
<b>Grand Total Solid Waste Services</b>															<b>271,050,000</b>	<b>443,990,000</b>	

## Solid Waste Services Capital Project Status Information

April 30, 2023

---

The two recycling and waste centre construction projects, United Boulevard Recycling and Waste Centre and Central Surrey Recycling and Waste Centre are now complete and other major capital projects are expected to be completed within budget. Waste-to-Energy Facility projects are proceeding slower than expected and have resulted in reduced expenditures in 2023 compared to projected cash flows.

### Recycling and Waste Centre Program

- Upgrades to the North Surrey and Langley Recycling and Waste Centres are in the planning stage. Enhanced recycling will be implemented at both of these facilities to provide free recycling drop off services ahead of the weight scales. Planning and design for these enhancements will begin in 2023.
- The United Boulevard Recycling and Waste Centre opened on March 14, 2022 and has been operating as expected since opening.
- The Central Surrey Recycling and Waste Centre opened on September 9, 2022 and has been operating as expected since opening.
- The North Surrey compactor replacement project has been initiated and is expected to be completed in 2023.

### Landfills Program

- A landfill gas collection system upgrade is required including a new control room at the blower flare station. Detailed design will be awarded via a procurement process.
- In the leachate collection system, the upgraded west pump station is operational and procurement for the design of the east pump station is expected to commence in 2023 with assistance from Liquid Waste Services.
- The leachate collection system realignment/upgrade is expected to begin in 2023 after procurement and award of a new 5-year comprehensive environmental consulting services contract.
- The eastern lot at the Coquitlam Landfill (Lot #3) is currently undeveloped. Planning and design work has begun for the preparation of this site to receive final closure and prepare grades for future development. Initial work to ensure good site drainage is complete. The end use for the approximately 3-hectare site has yet to be determined, but will be used to expand the region's waste reduction and recycling services.

### Waste-to-Energy Program

- The waste-to-energy district energy facility project is in the planning and design stage. The initial Phase of this project will be constructed in 2024-2025 and consist of an and energy centre

constructed at the existing waste-to-energy site and an approximately 6 km thermal energy transmission line to connect to the River District development project in south-east Vancouver. Multiple phases are anticipated for this project with connections to other development centres surrounding the waste-to-energy facility.

- The refuse crane replacement project commenced with preliminary engineering in 2019. The next phases of the project include detailed design and procurement of the major capital items.
- Covanta commenced replacement of the back-up feedwater pumps as they have reached the end of their useful life.
- The feed hopper / chute replacement project started in late 2019. The feed hopper and feed chute replacement is now complete.
- Ministry of Environment and Climate Change Strategy has approved proceeding with managing up to 25,000 tonnes per year of biosolids at the Waste-to-Energy Facility. Procurement award for a detailed design engineering study is pending.
- The primary economizer project commenced with engineering and procurement services on November 6, 2020. Installation of the works is expected to occur during 2023 outages.
- The compressed air system replacement project is underway, an engineering study which commenced on October 18, 2021 and is complete. The next phase of the project will include detailed design and procurement of the major capital items.
- The fabric filter / pulse header refurbishment project is underway, an engineering study commenced on December 2, 2021 and is complete. The next phase of the project will include detailed design and procurement of the major capital items.
- The fire detection system replacement project is underway, the upgrade is expected to be completed in 2024.
- The programmable logic controllers replacement project is underway, the upgrade is expected to be completed in 2024.
- The electrical transformer replacement project is underway, an engineering study which commenced on October 19, 2022 will be completed in 2023.

To: Zero Waste Committee

From: Stephanie Liu, Senior Engagement Specialist, Solid Waste Services

Date: July 5, 2023 Meeting Date: July 13, 2023

Subject: **Solid Waste Management Plan: Vision and Guiding Principles Engagement Initial Feedback**

---

### **RECOMMENDATION**

That the Zero Waste Committee receive for information the report dated July 5, 2023, titled “Solid Waste Management Plan: Vision and Guiding Principles Engagement Initial Feedback”.

---

### **EXECUTIVE SUMMARY**

In Spring 2023, Metro Vancouver launched engagement on the vision and guiding principles for an updated solid waste management plan. Metro Vancouver has reached out to First Nations, member jurisdictions, adjacent regional districts, and advisory committees. A range of feedback has been received on values, interests and priorities to be considered. Themes heard so far include accountability, climate resilience, convenience, environmental stewardship, and promoting a circular economy through increased reuse and repair. Feedback received will contribute to the development of the vision and guiding principles for the updated solid waste management plan. Following a public engagement period later this year, staff will report back with a full engagement summary report, a draft vision statement, and guiding principles for consideration.

### **PURPOSE**

The purpose of this report is to provide the Zero Waste Committee with a summary of engagement with and feedback received from First Nations, member jurisdictions, adjacent regional districts, and advisory committees on the vision and guiding principles for the updated solid waste management plan, prior to launching public engagement.

### **BACKGROUND**

In November of 2019 the GVS&DD Board (Board) authorized initiating an update of the regional solid waste management plan, as required by the provincial *Environmental Management Act* and according to the provincial guidance document *A Guide to Solid Waste Management Planning*. Subsequently, a Solid Waste Management Plan Independent Consultation and Engagement Panel (Engagement Panel) was formed to provide third-party expert advice on the development of a comprehensive and inclusive engagement process. Pre-engagement was completed in 2021 to receive feedback on how audiences wanted to be involved moving forward, and the Solid Waste Management Plan Public/Technical Advisory Committee and Solid Waste and Recycling Industry Advisory Committee were formed in 2022 to provide input throughout all phases of the plan update.

On February 9, 2023 the Zero Waste Committee received for information a report outlining the approach for the vision and guiding principles phase of engagement, including the plan to begin engaging First Nations, member jurisdictions, adjacent regional districts, and advisory committees in Spring 2023, prior to launching public engagement. This report provides an update on feedback received so far. Public engagement is planned for later this year.

2020	2021	2022	2023	2024 and beyond
<p>Engagement Panel formation</p> <p><i>Third-party expert advice on engagement; works with staff and reports to Board</i></p> <p><b>June: Board received Engagement Panel terms of reference</b></p> <p><b>November: Board received information on Engagement</b></p>	<p>Pre-engagement; engagement program development</p> <p><i>Invite feedback on how audiences want to be engaged.</i></p> <p><b>July: Board received pre-engagement feedback and draft terms of reference for IAC</b></p> <p><b>November: Board approved engagement program.</b></p>	<p>Advisory committee formation</p> <p><i>Public/Technical Advisory Committee (PTAC) and Industry Advisory Committee (IAC)</i></p> <p><b>January: Zero Waste Committee received updates on IAC member application process</b></p> <p><b>February: Zero Waste Committee received update on IAC formation, and PTAC development</b></p> <p><b>April: Board approved PTAC membership</b></p> <p><b>May: Zero Waste Committee received information on first IAC meeting and proposed update to terms of reference.</b></p>	<p>Vision and guiding principles engagement</p> <p><b>February: Zero Waste Committee received information on planned engagement.</b></p> <p><b>April: Committee provided input on vision and guiding principles.</b></p> <p><b>July: Board received report on initial feedback.</b></p>	<p>Future engagement phases including idea generation, options analysis, and draft plan</p>

## VISION AND GUIDING PRINCIPLES ENGAGEMENT INITIAL FEEDBACK

In Spring 2023, Metro Vancouver reached out to First Nations, member jurisdictions, adjacent regional districts, the Solid Waste Management Plan Public/Technical Advisory Committee, and the Solid Waste and Recycling Industry Advisory Committee to seek feedback on vision and guiding principles for the solid waste management plan update.

The vision and guiding principles phase will set the plan foundation and direction, and reflect fundamental values to guide plan development and implementation. In addition to engagement feedback, Metro Vancouver is reviewing themes from the Board Strategic Plan, the principles within other long-range regional management plans, and principles outlined in the provincial *A Guide to Solid Waste Management Planning*. Feedback received during this phase will contribute to the development of the vision and guiding principles for the updated plan, and inform subsequent phases of engagement including idea generation and options analysis.



During this phase of engagement, staff sought feedback on what is important to audiences in terms of design, purchase, use, reuse, repurpose, recycle, and disposal in Metro Vancouver, and what could be better in the future. Audiences provided input on their values, interests, and priorities as they relate to solid waste, and also identified priority waste reduction, recycling, and garbage disposal topics to be considered.

During each meeting and workshop, staff provided a presentation on the current state of solid waste management in the region, including initiatives underway to reduce waste, increase recycling, and advance a circular economy. Four key questions were presented:

1. What waste reduction, recycling and garbage disposal topics are most important, now and into the future?
2. List words or phrases that describe what matters, when deciding what to do with products, packaging and materials that are no longer needed.
3. The updated solid waste management plan is intended to reflect the values of everyone in the region. What values, interests, and priorities can be considered?
4. Thinking of how we purchase, use, reuse, repurpose, recycle and throw things away in the Metro Vancouver region, what could be better in the future than it is today?

### First Nations Engagement

Metro Vancouver recognizes that creating a solid waste management plan that reflects Indigenous knowledge, interests, values, and priorities will make a stronger plan for everyone, and acknowledges the importance of ensuring that First Nations who wish to be involved have the

opportunity for meaningful engagement. The ongoing solid waste management plan development process presents an opportunity to advance collaboration and reconciliation with First Nations.

On February 23, 2023, letters were sent to the ten local First Nations offering to meet and inviting feedback on the solid waste management plan vision and guiding principles. On March 3, 2023, letters were sent to 19 First Nations located outside Metro Vancouver with interests in the region and Métis Nation of BC, inviting feedback on this phase of the plan update.

From March to May 2023 Metro Vancouver met with representatives from seven of the ten local First Nations to discuss vision and guiding principles for the updated solid waste management plan, including the following Nations:

- ǵʷɑ:ńǻń (Kwantlen First Nation)
- kʷikʷǻǻm (Kwikwetlem First Nation)
- xʷmǻθkʷǻǻm (Musqueam Indian Band)
- Skwǻwú7mesh Úxwumixw (Squamish Nation)
- scǻwǻθǻn mǻsteyǻxʷ (Tsawwassen First Nation)
- sǻlǻlwǻtǻʔ (Tseil-Waututh Nation)
- mǻthxwi (Matsqui First Nation)

Feedback included a request for further clarity on how the plan update is relevant to or impacts First Nations, and alignment with First Nations feedback previously provided during other engagement processes on management plans at Metro Vancouver.

Other items discussed included:

- Improving accessibility to solid waste programs and services;
- Increasing education and awareness;
- Highlighting economic opportunities where possible;
- Considering affordability;
- Focusing on environmental stewardship;
- Reducing plastic packaging and single-use items;
- Encouraging innovation;
- Reducing abandoned waste;
- Simplifying recycling; and
- Collaborating on existing Metro Vancouver Solid Waste Services waste reduction programs and initiatives.

### **Member Jurisdiction, Adjacent Regional District and Advisory Committee Engagement**

On March 30, 2023, Metro Vancouver sent letters to mayors and councils of member jurisdictions, and adjacent regional district boards, to introduce and invite feedback on the vision and guiding principles phase of engagement on the solid waste management plan update. In addition, workshops were scheduled with the Solid Waste Management Plan Public and Technical Advisory Committee and the Solid Waste and Recycling Industry Advisory Committee.



A list of meetings and workshops held with member jurisdictions and advisory committees is provided in the table below. In addition to these completed meetings, staff have scheduled upcoming meetings with adjacent regional district staff and the Youth and Education Advisory Panel.

<b>Audience</b>	<b>Type</b>	<b>Dates</b>
Member jurisdiction staff: Regional Engineers Advisory Committee; Regional Engineers Advisory Committee Solid Waste Sub-Committee, Municipal Waste Reduction Coordinators' Committee	Workshop	March 30, 2023
Zero Waste Committee and Climate Action Committee	Joint committee discussion at a Zero Waste Committee regular meeting	April 13, 2023
Waste Management Association of BC (WMABC)*	Invited presentation at regular member's meeting	April 27, 2023
Solid Waste Management Plan Public/Technical Advisory Committee	Workshop	April 28, 2023
Member jurisdiction staff: Invest Vancouver Advisory Committee	Presentation and discussion at regular meeting of the committee	May 24, 2023
Solid Waste and Recycling Industry Advisory Committee	Workshop	June 6, 2023

\*WMABC specifically requested Metro Vancouver staff to attend a regular WMABC member's meeting to present on vision and guiding principles for the solid waste management plan update.

In addition to these scheduled meetings and workshops, staff provided updates at regular meetings of the Regional Engineers Advisory Committee (REAC), REAC Solid Waste Sub-Committee, and Municipal Waste Reduction Coordinators' Committee.

Some overarching themes that emerged included accountability, climate resilience, convenience, environmental stewardship, education, and promoting a circular economy through increased reuse and repair.

A high-level summary of feedback is provided in the table below. In addition, meeting summaries that were sent to each group to follow-up after the workshops are included as Attachments 1-5. Note that the feedback presented in this report and in the meeting summaries attached are meant to highlight key themes that emerged from the discussion.

Detailed discussion notes are being retained as part of the full engagement record, and individual comments will be included in feedback logs as part of an engagement report that will be provided at the end of this phase on vision and guiding principles. Feedback received during this phase of engagement will contribute to the development of the draft vision and guiding principles for the updated solid waste management plan, and help to inform future phases including idea generation and options analysis.

Theme	Description	Source				
		Zero Waste Committee / Climate Action Committee	Member jurisdiction staff*	Public/Technical Advisory Committee	Industry Advisory Committee	Waste Management Association of BC **
Accessibility, equity, and societal improvements	Ensure all groups have equal access to information, education, and services related to solid waste and recycling.		✓	✓	✓	
Accountability and Transparency	Foster accountability from producers and consumers to reduce waste. Provide regular reporting on progress and improvement of metrics.		✓	✓	✓	
Affordability	Consider cost of accessing recycling and waste services, and cost of durable goods that last.		✓	✓	✓	✓
Circular Economy	Encourage repair, reuse and thrifting. Facilitate circular product design, support circular industries, and build public understanding about the circular economy.		✓	✓	✓	
Climate Resilience	Invest in systems that have the lowest climate impact. Align with corporate GHG emission goals.	✓	✓	✓	✓	
Convenience and Consistency	Provide convenient, accessible, and harmonized services across the region.	✓	✓	✓	✓	
Education and Behaviour Change	Provide clear and consistent messages to encourage a cultural shift for sustainable consumption and to foster confidence in recycling systems.	✓	✓	✓	✓	✓
Environmental Stewardship	Embed Indigenous knowledge and values such as environmental stewardship. Reduce pollution and consider health impacts. Value and protect the natural beauty of our region.		✓	✓		
Incentives	Incentivize diversion over disposal (e.g. taxation, recycling deposits)		✓	✓	✓	
Innovation	Utilize new technologies to reduce plastics and GHG emission.		✓	✓	✓	
Policy and Regulation	Provide regulatory framework that allows for innovation within the industry. Strategies and solutions to ensure adequate capacity for waste, recycling and organics.			✓	✓	✓
Product Design and Innovation	Design products that are more circular and regenerative.	✓	✓	✓	✓	

\*Includes REAC, REAC Solid Waste Sub-Committee, Municipal Waste Reduction Coordinators’ Committee, and Invest Vancouver Advisory Committee

\*\*WMABC specifically requested Metro Vancouver staff to attend a regular WMABC member’s meeting to present on vision and guiding principles for the solid waste management plan update.

### **Zero Waste Committee and Climate Action Committee Joint Discussion at the April 13, 2023 Zero Waste Committee meeting**

At the April 13, 2023 Zero Waste Committee, the Zero Waste Committee and Climate Action Committee received a presentation providing an overview of solid waste management in the region, and discussed the priorities, interests, and values of communities represented across the region by committee members. Input from the committees will be incorporated in the next phases of engagement work. Themes emerging from the discussion on key solid waste management topics and values to consider as part of the solid waste management plan development included:

- Standardizing and simplifying recycling systems
- Aligning with greenhouse gas emission targets from other Metro Vancouver management plans
- Avoiding food waste and reducing food packaging
- Reducing plastics, including plastic packaging and single-use items
- Aligning with National Zero Waste Council on national efforts to reduce packaging
- Reducing waste, including reducing consumption and designing products to reduce waste
- Maximizing technological innovation, including recycling sorting and processing technology
- Considering environmental resilience and climate impacts
- Facilitating behaviour change

### **Upcoming Public Engagement on Vision and Guiding Principles**

Metro Vancouver will launch the public engagement portion of the vision and guiding principles phase of engagement later this year. This will involve inviting a broad public audience to provide feedback through a range of engagement activities, such as an online survey, public webinars and workshops, and an opportunity for interested parties to present to Engagement Panel.

In addition, there are upcoming meetings scheduled with adjacent regional district staff and the Youth and Education Advisory Panel. Upon completion of the public engagement period, staff will report back with a full engagement summary report for the vision and guiding principles phase of engagement, along with a draft vision statement and guiding principles for consideration by the Zero Waste Committee and Board, and comments from the Engagement Panel on this phase of engagement.

### **Collaborative Engagement**

Metro Vancouver is trialing an initiative to offer funding to not-for-profit organizations with an interest in solid waste management planning or environmental issues to gather feedback from their own communities on the vision and guiding principles for the updated solid waste management plan. The goal of this initiative is to hear from residents and organizations who otherwise may not be aware of opportunities to provide input to Metro Vancouver, including underrepresented and equity-denied communities. A toolkit will be developed as a resource for participating organizations for the purpose of running engagement activities.

### **ALTERNATIVES**

This is an information report. No alternatives are presented.

## **FINANCIAL IMPLICATIONS**

Activities related to planning and implementing engagement on the update to the solid waste management plan are covered under the approved Solid Waste Services budget.

## **CONCLUSION**

Metro Vancouver met with First Nations, member jurisdictions, and advisory committees to discuss values, interests, and priorities that may be incorporated into the vision and guiding principles for an updated solid waste management plan. The development of a vision and guiding principles will set the plan foundation and direction and will incorporate themes from the Board Strategic Plan, principles within other long-range regional management plans, and engagement feedback. Feedback received during this phase will contribute to the development of the vision and guiding principles for the updated plan, and inform subsequent phases of engagement including idea generation and options analysis.

Following a public engagement period later this year, staff will report back with a full engagement summary report and a draft vision statement and guiding principles for consideration.

## **Attachments**

1. Workshop Summary – Member Jurisdiction Staff (REAC, REAC-SW, MWRCC) – March 30, 2023
2. Meeting Summary – Waste Management Association of BC Member’s Meeting – April 27, 2023
3. Workshop Summary – Solid Waste Management Plan Public / Technical Advisory Committee – April 28, 2023
4. Meeting Notes Excerpt – Invest Vancouver Advisory Committee – May 24, 2023
5. Workshop Summary – Solid Waste and Recycling Industry Advisory Committee – June 6, 2023
6. Presentation re: Solid Waste Management Plan Vision and Guiding Principles Engagement Initial Feedback

60269702

**SOLID WASTE MANAGEMENT UPDATE VISION AND GUIDING PRINCIPLES**  
**Member Jurisdiction Staff Advisory Committees Workshop**  
**March 30, 2023**

On March 30, 2023, Metro Vancouver held a workshop with members of the Regional Engineers Advisory Committee-Solid Waste Sub-Committee, Municipal Waste Reduction Coordinators’ Committee, and Regional Engineers Advisory Committee (optional) to discuss vision and guiding principles for the updated regional solid waste management plan. Twenty-four member jurisdiction staff, representing 13 member jurisdictions, participated in the workshop.



The vision and guiding principles phase of engagement sets the foundation and direction for the plan development process, by gathering feedback on values, priorities, interests, and key solid waste management considerations now and into the future.

At the March 30, 2023 member jurisdiction workshop, four key questions were presented to members:

1. What waste reduction, recycling and garbage disposal topics are most important, now and into the future?
2. List words or phrases that describe what matters, when deciding what to do with products, packaging and materials that are no longer needed.
3. The updated solid waste management plan is intended to reflect the values of everyone in the region. What values, interests, and priorities can be considered?
4. Thinking of how we purchase, use, reuse, repurpose, recycle and throw things away in the Metro Vancouver region, what could be better in the future than it is today?

A summary of themes that emerged at the workshop is presented in the What We Heard section below.

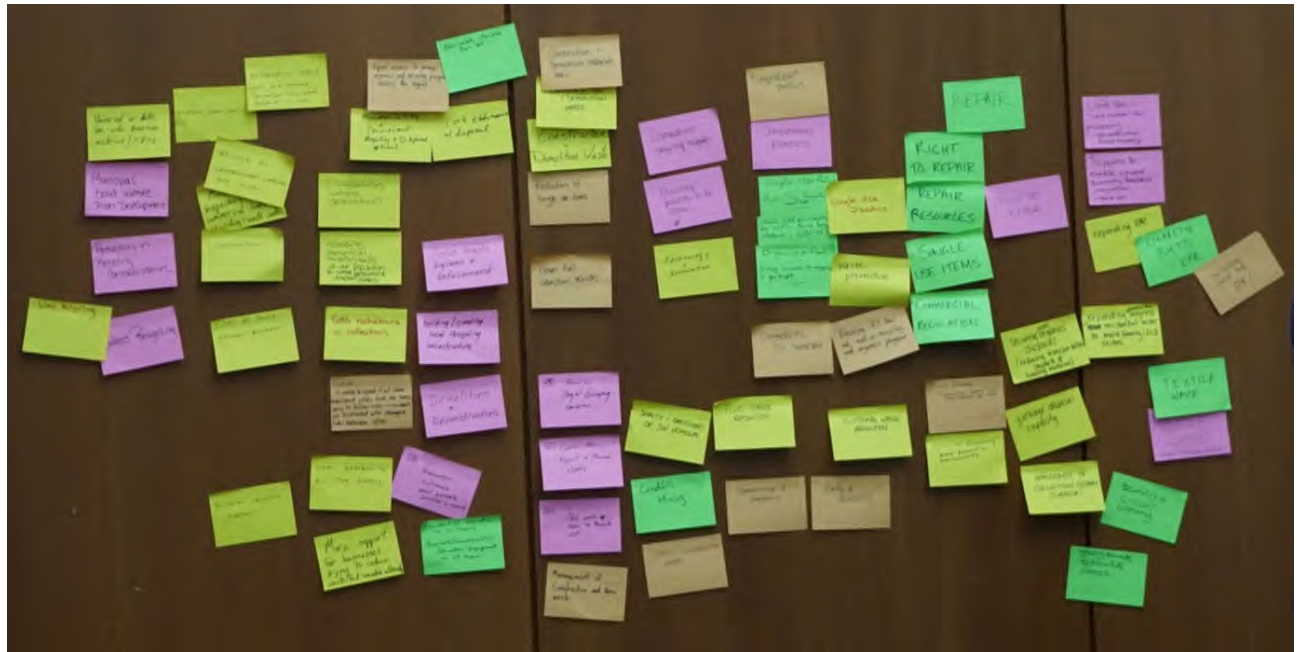
Next steps include providing an update report to the Zero Waste Committee on what we have heard so far through engagement with First Nations, member jurisdiction staff, and advisory committees, followed by the launch of public engagement on vision and guiding principles. Following public engagement, Metro Vancouver will produce an engagement summary report for this phase of engagement and provide a draft vision statement and guiding principles to the Zero Waste Committee and Board for consideration.

Members are encouraged to submit any additional feedback to [zerowaste@metrovancover.org](mailto:zerowaste@metrovancover.org) before May 31, 2023.

**WHAT WE HEARD**

The table below summarizes themes that emerged through the discussion, which will be taken into consideration as Metro Vancouver continues to engage on the vision and guiding principles for the updated plan.

<b>Priority</b>	<b>What We Heard</b>
Accessibility and inclusivity	<p>Ensure all have access to waste and recycling services, including First Nations, rural residents, and all demographics, e.g. non-English language speakers, those without internet access, and all ages.</p> <p>Provide accessible communications to facilitate access (e.g. multiple languages or using images).</p>
Accountability	<p>Emphasize accountability, and ownership of responsibility from both producers, consumers and businesses to reduce waste. Empower residents to be able to make those choices.</p>
Affordability	<p>Understand and provide solutions to how affordability influences a person’s ability to purchase durable goods that last, access reuse markets, and travel to recycling facilities.</p>
Circular economy	<p>Increase repair, reuse and thrifting, rental economy, and building public understanding of circular economy. Foster a cultural shift to view waste as a resource and valuing high quality of pre-owned goods and reducing single-use items.</p>
Climate action	<p>Assess what systems and options have the lowest climate impact.</p>
Collaboration	<p>Foster collaboration and partnerships between residents, multiple levels of government, industry, academia, and school districts.</p>
Convenience and consistency	<p>Increase convenience and harmonize services across the region, and across sectors (e.g. multi-family vs single-family).</p>
Cost incentives	<p>Comment on using fees and taxes to incentivize recycling over disposal.</p>
Education	<p>Communicate with residents about their role in waste reduction, and increasing understanding of services available. Clear and consistent messaging. Encourage sustainable purchasing practices and a cultural shift with respect to consumption. Counteract greenwashing to ensure the actions residents take are effective.</p>
Equity	<p>Invest in people and improve lives while pursuing a zero waste future. For example, increase equity by welcoming and recognizing the role of binners into the solid waste system. Invest in people.</p>
Indigenous values and principles	<p>Embed Indigenous values, such as environmental stewardship and protection.</p>
Innovation and Technology	<p>Transition to a green collection fleet, use clean technology, data analytics and AI to provide information on contamination, and use technology for education (e.g. mobile apps). Allow for innovation.</p>
Product and packaging design	<p>Advocate for quality product designs that are longer-lasting, and more circular and regenerative, allowing for easier recycling, reuse and repair and reducing barriers such as liability concerns. E.g. right to repair legislation</p> <p>Reduce excess packaging, often due to surge in convenient delivery practices. Allowing residents to have a choice in the amount of packaging received.</p>



Member jurisdiction staff workshop activity: “What waste reduction, recycling and garbage disposal topics are most important, now and into the future?”

**WORKSHOP ATTENDEES:**

Zac Dér, City of Burnaby  
 Danielle Dontchev, City of Coquitlam  
 Shannon Hadley, City of Coquitlam  
 Tess Rouse, Township of Langley  
 Kwaku Agyare-Manu, City of New Westminister  
 Meghan Doyle, City of New Westminister,  
 Stacy Neves, City of New Westminister  
 Annie Dempster, City of North Vancouver  
 Lianne Shyry, City of North Vancouver  
 Caroline Jackson, District of North Vancouver  
 Michael Toland, District of North Vancouver  
 Nicola Chevallier, District of North Vancouver

Aubrey McIlwraith-Black, City of Vancouver  
 Charisse Metcalfe, City of Port Coquitlam  
 Joshua Frederick, City of Port Coquitlam  
 Cristy Houston, City of Richmond  
 Kristina Nishi, City of Richmond  
 Harry Janda, City of Surrey  
 Jeffrey Martel, City of Surrey  
 Christopher Combe, Township of Langley  
 Emily Willobee, District of West Vancouver  
 Kristeen DeGobbi, District of West Vancouver  
 Trevor Doré, District of West Vancouver  
 Kristian Davis, City of White Rock

## Meeting Summary

### Metro Vancouver Solid Waste Management Plan Update

#### Vision and Guiding Principles

#### WMABC Member's Meeting - Apr.27 2023

On April 27, 2023, Metro Vancouver was invited to attend a WMABC member's meeting to provide a presentation on the vision and guiding principles engagement for the solid waste management plan update. Following the presentation, Metro Vancouver posed four key questions to members:

1. What waste reduction, recycling and garbage disposal topics are most important, now and into the future?
2. List words or phrases that describe what matters, when deciding what to do with products, packaging and materials that are no longer needed.
3. The updated solid waste management plan is intended to reflect the values of everyone in the region. What values, interests, and priorities can be considered?
4. Thinking of how we purchase, use, reuse, repurpose, recycle and throw things away in the Metro Vancouver region, what could be better in the future than it is today?

The following themes were identified by WMABC members at the meeting, which will be taken into consideration as Metro Vancouver continues to engage on the vision and guiding principles for the updated solid waste management plan:

- Ensure adequate capacity to handle waste and recyclables.
- Provide consistent and reliable policy framework for the waste and recycling industry to operate within.
- Provide education to foster confidence in recycling systems, to motivate residents to make choices that will reduce waste and increase recycling.
- Foster collaboration and cooperation between waste and recycling industry and local, regional, and provincial government.
- Recognize that affordability is a major factor to encourage behavior change among the public (financial incentive).
- Ensure a level playing field for both government and the private sector.

Next steps include providing an update report to the Zero Waste Committee on what we have heard so far through engagement, followed by the launch of public engagement on vision and guiding principles.

WMABC and its members are encouraged to send any additional feedback to [zerowaste@metrovancover.org](mailto:zerowaste@metrovancover.org), before May 31, 2023.



**SOLID WASTE MANAGEMENT UPDATE VISION AND GUIDING PRINCIPLES**  
**Solid Waste Management Plan Public/Technical Advisory Committees Workshop**  
**April 28, 2023**

On April 28, 2023, Metro Vancouver held a workshop with members of the Solid Waste Management Plan Public/Technical Advisory Committee (PTAC) to discuss vision and guiding principles for the updated regional solid waste management plan. There were 20 of 32 PTAC members present as well as one observer.



The vision and guiding principles phase of engagement sets the foundation and direction for the plan development process, by gathering feedback on values, priorities, interests, and key solid waste management considerations now and into the future.

At the April 28, 2023 PTAC workshop, four key questions were presented to members:

1. What waste reduction, recycling and garbage disposal topics are most important, now and into the future?
2. List words or phrases that describe what matters, when deciding what to do with products, packaging and materials that are no longer needed.
3. The updated solid waste management plan is intended to reflect the values of everyone in the region. What values, interests, and priorities can be considered?
4. Thinking of how we purchase, use, reuse, repurpose, recycle and throw things away in the Metro Vancouver region, what could be better in the future than it is today?

A summary of themes that emerged at the workshop is presented in the What We Heard section below. Note that the feedback presented here is meant to highlight key themes from the discussion. Detailed discussion notes are being retained as part of the full engagement record, and individual comments will be included in feedback logs as part of an engagement report at the end of this phase on vision and guiding principles.

Next steps include providing an update report to the Zero Waste Committee on what we have heard so far through engagement with First Nations, member jurisdiction staff, and advisory committees, followed by the launch of public engagement on vision and guiding principles. Following public engagement, Metro Vancouver will produce an engagement summary report for this phase of engagement and provide a draft vision statement and guiding principles to the Zero Waste Committee and Board for consideration.

Members are encouraged to submit any additional feedback to [zerowaste@metrovancover.org](mailto:zerowaste@metrovancover.org) before May 31, 2023.

**WHAT WE HEARD**

The table below summarizes themes that emerged through the discussion, which will be taken into consideration as Metro Vancouver continues to engage on the vision and guiding principles for the updated plan.

<b>Priority</b>	<b>What We Heard</b>
Accessibility and inclusivity	<ul style="list-style-type: none"> <li>• Enable easy, cheaper and local access to services. Support people to meet them where they are so they can have access.</li> </ul>
Accountability	<ul style="list-style-type: none"> <li>• Improve metrics to report on reuse, repair and diversion, and waste generation (including food) to enable us to reach bold goals.</li> <li>• Regularly set targets and share data publicly.</li> <li>• Recognize the shared responsibility of individuals and industry.</li> </ul>
Affordability	<ul style="list-style-type: none"> <li>• Understand and provide solutions to how affordability influences a person’s ability to purchase durable goods that last, access reuse markets, and travel to recycling facilities. Suggest making poor quality materials more expensive to disincentive their use, for example by incorporating costs related to environmental/health risks and clean-up.</li> <li>• Incentivize prevention over diversion over disposal.</li> </ul>
Circular economy	<ul style="list-style-type: none"> <li>• Start at the top of the waste hierarchy; increase reuse, repair, and remanufacture.</li> <li>• Create longer lasting products that are valued.</li> <li>• Design closed loop systems and encourage highest and best use of a product.</li> <li>• Facilitate development of infrastructure to support circular economy industries.</li> <li>• Build the circular economy to create jobs.</li> </ul>
Climate action	<ul style="list-style-type: none"> <li>• Advance current greenhouse gas reduction targets that align with sustainable development goals, to achieve climate goals.</li> <li>• Consider carbon footprint from production, extraction, and distribution.</li> <li>• Include food as integral to climate action plans.</li> <li>• Reduce dependency on disposal, including incineration, by increasing focus on waste prevention, reduction and diversion.</li> <li>• Improve system resiliency to climate change impacts.</li> </ul>
Collaboration	<ul style="list-style-type: none"> <li>• Collaborate with all levels of government, private businesses, and industry.</li> <li>• Engage with and foster a sense of community.</li> </ul>
Convenience, consistency, simplicity	<ul style="list-style-type: none"> <li>• Increase convenience and harmonize services across the region, and across sectors. Reduce complexity to combat decision fatigue.</li> </ul>
Cultural sensitivity and respect	<ul style="list-style-type: none"> <li>• Recognize cultural pressures or norms about consumption that impact actions related to waste.</li> </ul>
Education and behavior change	<ul style="list-style-type: none"> <li>• Provide clear communications to help increase understanding of the waste being created, and build public trust about recycling systems including end markets.</li> <li>• Increase transparency and awareness about the waste system, especially among younger populations.</li> </ul>

	<ul style="list-style-type: none"> <li>• Shift cultural norms to make waste prevention and recycling relevant, including using enjoyment/fun as tools to motivate collective action.</li> </ul>
Environmental stewardship	<ul style="list-style-type: none"> <li>• Review global climate footprint, biodiversity, sustainable development, and impact on people.</li> <li>• Acknowledge the importance and value of keeping the land healthy and regenerative.</li> <li>• Minimize discharges to the environment.</li> <li>• Minimize health, environmental, and financial risks using the precautionary principle.</li> </ul>
Equity	<ul style="list-style-type: none"> <li>• Make waste solutions accessible for modest/low income groups.</li> <li>• Increase equity by simplifying language, providing recycling services in all languages, and recognizing that not everyone has background of being zero waste expert.</li> <li>• Empower those who are marginalized.</li> <li>• Consider those who are food insecure; acknowledge those who are not aware of recycling or have limited access to education.</li> <li>• Consider the doughnut economic model to live within our planetary means while ensuring no one falls short on life’s essentials</li> </ul>
Innovation	<ul style="list-style-type: none"> <li>• Advance the waste prevention, reuse, and repair economies, as well as technological innovations and habit innovations.</li> <li>• Provide options for reuse, repair and recycling that are easier than disposal.</li> <li>• Introduce alternative, more sustainable products and consider subsidizing these options to reduce the financial barrier.</li> </ul>
Regulation	<ul style="list-style-type: none"> <li>• Develop and strengthen a regulatory framework that encourages innovation and waste prevention, includes food waste reporting, removes barriers to recycling, and has the flexibility to respond to change.</li> </ul>



Public/Technical Advisory Committee Workshop activity: “What waste reduction, recycling and garbage disposal topics are most important, now and into the future?”

**WORKSHOP ATTENDEES:**

Director Sarah Kirby-Yung, Chair  
 Director Craig Hodge, Vice-Chair  
 Ben Liegry  
 Bill Chan  
 Brenda Martens  
 Brianne De Man  
 Cody Irwin  
 Daniel Rotman  
 Doug Schell  
 Grant Hankins

Jamie Kaminski  
 Louise Schwarz  
 Love-Ese Chile  
 Lyndsay Poaps  
 Raman Johal  
 Sue Maxwell  
 Tara Immell  
 Ulwiana Mehta-Malhotra  
 William Selten  
 Yasmin Abraham

**Invest Vancouver Advisory Committee  
May 24th 2023**

*Metro Vancouver Solid Waste Services staff attended a regular IVAC meeting to present on vision and guiding principles for the solid waste management plan, including background information on the solid waste system. Paul Henderson gave the presentation. Chris Underwood, Terry Fulton, Stephanie Liu, and Samantha Joy attended.*

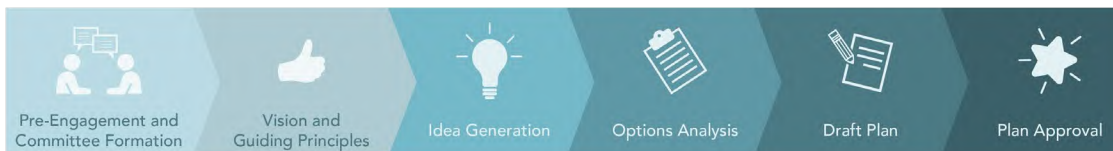
*The following is an excerpt from the Invest Vancouver Advisory Committee meeting minutes:*

**Solid Waste Management Plan Vision and Guiding Principles Discussion**

- Metro Vancouver Solid Waste Services staff provided a presentation on the solid waste management plan update process, including details on the current phase of engagement: vision and guiding principles. This phase sets the foundation and direction for the plan development process, by identifying values, priorities, interests, and key solid waste management considerations now and into the future.
- The following questions were posed:
  1. What waste reduction, recycling and garbage disposal topics are most important, now and into the future?
  2. List words or phrases that describe what matters, when deciding what to do with products, packaging and materials that are no longer needed.
  3. The updated solid waste management plan is intended to reflect the values of everyone in the region. What values, interests, and priorities can be considered?
  4. Thinking of how we purchase, use, reuse, repurpose, recycle and throw things away in the Metro Vancouver region, what could be better in the future than it is today?
- The following is a brief summary of themes we heard from committee members:
  - **Waste to resource** - Develop opportunities to turn waste into energy or commodities. Encourage industrial symbiosis.
  - **Circular economy** - Track and define circular jobs, and facilitate entrepreneurship to develop a circular economy. Support growth of a circular economy through research, policy, and infrastructure.
  - **High density neighbourhoods** – Work on waste collection solutions.
  - **Consumption** – Recalibrate consumption patterns, recognizing that sustainable consumption is an important part of climate action.
  - **Land use** – Ensure circular economy and waste management goals align with land use policies, and expand land use to optimize market opportunities near recycling and waste centres.
  - **Natural areas** – Value and protect the natural beauty of our region.
- IVAC members are encouraged to send any additional feedback to [zerowaste@metrovancover.org](mailto:zerowaste@metrovancover.org)

**SOLID WASTE MANAGEMENT UPDATE VISION AND GUIDING PRINCIPLES**  
**Solid Waste and Recycling Industry Advisory Committee Workshop**  
**June 6, 2023**

On June 6, 2023, Metro Vancouver held a workshop with members of the Solid Waste and Recycling Industry Advisory Committee (IAC) to discuss vision and guiding principles for the updated regional solid waste management plan. There were 22 of 30 IAC members present.



The vision and guiding principles phase of engagement sets the foundation and direction for the plan development process, by gathering feedback on values, priorities, interests, and key solid waste management considerations now and into the future.

At the June 6, 2023 IAC workshop, four key questions were presented to members:

1. What waste reduction, recycling and garbage disposal topics are most important, now and into the future?
2. List words or phrases that describe what matters, when deciding what to do with products, packaging and materials that are no longer needed.
3. The updated solid waste management plan is intended to reflect the values of everyone in the region. What values, interests, and priorities can be considered?
4. Thinking of how we purchase, use, reuse, repurpose, recycle and throw things away in the Metro Vancouver region, what could be better in the future than it is today?

A summary of themes that emerged at the workshop is presented in the *What We Heard* section below. Note that the feedback presented here is meant to highlight key themes from the discussion. Detailed discussion notes are being retained as part of the full engagement record, and individual comments will be included in feedback logs as part of an engagement report at the end of this phase on vision and guiding principles.

Next steps include providing an update report to the Zero Waste Committee on what we have heard so far through engagement with First Nations, member jurisdiction staff, and advisory committees, followed by the launch of public engagement on vision and guiding principles. Following public engagement, Metro Vancouver will produce an engagement summary report for this phase of engagement and provide a draft vision statement and guiding principles to the Zero Waste Committee and Board for consideration.

Members are encouraged to submit any additional feedback before June 30, 2023, to [solidwasteoperations@metrovancover.org](mailto:solidwasteoperations@metrovancover.org).

**WHAT WE HEARD**

The table below summarizes themes that emerged through the small group discussions, which will be taken into consideration as Metro Vancouver continues to engage on the vision and guiding principles for the updated plan.

Priority	What We Heard
Accessibility and inclusivity	<ul style="list-style-type: none"> <li>• Improve recycling and disposal access in small and remote communities</li> <li>• Ensure dialogue with people who live close to facilities; engage with under-represented groups about the impact of facilities on communities</li> <li>• Consider cost of living and accessibility when planning services and facilities</li> </ul>
Accountability	<ul style="list-style-type: none"> <li>• Improve waste and recycling metrics (including for construction and demolition waste)</li> <li>• Ensure reporting of accurate recycling rates with clear definitions</li> <li>• Recognize the shared responsibility of individuals and industry</li> <li>• Provide incentives to build and operate recycling facilities</li> <li>• Financial accountability and transparency (related to contracts and procurement)</li> <li>• Eliminate “greenwashing”</li> </ul>
Affordability	<ul style="list-style-type: none"> <li>• Incentivize recycling and circular solutions to producers</li> <li>• Create solutions for high real estate costs – limited access, high costs, zoning</li> </ul>
Circular economy	<ul style="list-style-type: none"> <li>• Design products to be recyclable</li> <li>• Reuse construction materials</li> <li>• Define waste materials as a commodity (resource) instead of garbage</li> </ul>
Climate action	<ul style="list-style-type: none"> <li>• Promote lower GHG emission and carbon capture technology</li> <li>• Encourage low-carbon and low-emission vehicles</li> <li>• Focus on solutions to reduce GHGs in concrete and cement producers</li> <li>• Avoid activities that pose environmental liability in the future</li> </ul>
Collaboration	<ul style="list-style-type: none"> <li>• Collaborate with all levels of government, private businesses, and industry</li> <li>• Engage with and foster a sense of community</li> <li>• Ensure an open market for service providers</li> </ul>
Convenience, consistency, simplicity	<ul style="list-style-type: none"> <li>• Make recycling easier for the public, especially with separation and storage</li> <li>• Invest in facilities that take all waste streams (ex. North Shore facility)</li> <li>• Increase capacity and ease for easy plastics recycling</li> </ul>
Education and behavior change	<ul style="list-style-type: none"> <li>• Focus on and implement provincial waste hierarchy</li> <li>• Public education around understanding compostables, keeping recycling clean, and reducing contaminations</li> <li>• Public education around reuse of items and extending the life of products</li> <li>• Establish and promote clear values around waste disposal and recycling</li> <li>• Incentivize behavior change (reward people rather than penalize)</li> <li>• “Where Does it Go?” for recycling and disposal education, awareness</li> <li>• Encourage consumers to purchase less and purchase recycled/repurposed items</li> </ul>

Environmental stewardship	<ul style="list-style-type: none"> <li>• Restrict the use of natural resources, or premium pricing for natural resources</li> <li>• Ban the use of resources from areas immediately surrounding the city (ex. aggregate)</li> <li>• Consider capital costs and the overall environmental path</li> </ul>
Equity	<ul style="list-style-type: none"> <li>• Promote and enhance opportunities for a competitive market</li> <li>• Rebates and grants from the provincial government</li> </ul>
Innovation	<ul style="list-style-type: none"> <li>• Advance the waste prevention, reuse, and repair economies, as well as technological innovations and habit innovations</li> <li>• Provide options for reuse, repair, and recycling that are easier than disposal</li> <li>• Technology and AI to assist with contamination or multi-family homes Landfill mining and gas capture</li> <li>• Landfill mining and gas capture</li> <li>• Invest in circular solutions and ways to eliminate single-use items</li> </ul>
Regulation and Policy	<ul style="list-style-type: none"> <li>• Ensure policy allows market-driven outcomes; avoid conflict between the roles of regulator and market competitor</li> <li>• Extended producer responsibility (EPR)</li> <li>• Implement and maintain disposal bans for reduction of waste</li> <li>• Maintain organics disposal ban</li> <li>• Standardize and define the terminology used in measurement and metrics</li> </ul>
Waste Reduction	<ul style="list-style-type: none"> <li>• Eliminate waste at the source – focus on local processing and local re-use</li> <li>• Reduce daily deliveries from online retailers</li> </ul>

**WORKSHOP ATTENDEES:**

Director Craig Hodge, Co-Chair  
 Mary Polak, Co-Chair  
 Achilles Mallari – Sierra Waste Services Ltd.  
 Aiden Kiani – Lock-Block Ltd.  
 Christian Dietrich – Ecowaste Industries David  
 Millman – Waste Management of Canada  
 Edwin Berkhof – Evergen Infrastructure Corp.  
 Gord Johnson - Empower  
 Grant Hankins – Canada Minibins  
 Izzie Abrams – Waste Connections of Canada  
 Jaimie Kaminski – HSR Zero Waste  
 Jeremy Crawford – Waste Control Services Ken  
 Carusca – Cement Association of Canada

Matthew McAra - GFL  
 Maya Moucachen – Merlin Plastics  
 Michael Zarbl – Major Appliances Recycling  
 Roundtable  
 Mike Lanin – Super Save Group  
 Nicole Stefenelli – Urban Impact Recycling Inc.  
 Nicole Victor - Covanta  
 Pinky Vargas (Cynthia Shore) – Republic Services  
 Ralph McRae – Revolution  
 Sandy Sigmund – Encorp Pacific Canada  
 Shad Prasad – Cascade Recovery +  
 Terry Plotnikoff – Canadian Mattress Recycling  
 Inc.





# Solid Waste Management Plan

## VISION AND GUIDING PRINCIPLES INITIAL FEEDBACK

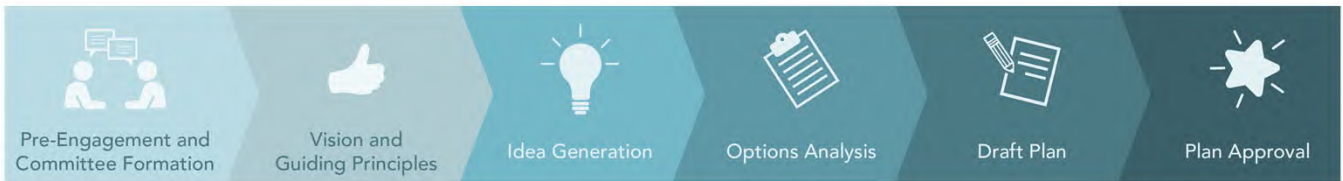
Samantha Joy

Engagement Specialist, Solid Waste Services

Zero Waste Committee, July 13, 2023



# SOLID WASTE MANAGEMENT PLAN UPDATE



# VISION AND GUIDING PRINCIPLES ENGAGEMENT

Timeline



# ENGAGEMENT FEEDBACK

First Nations    Member Jurisdictions    Public/Technical Advisory Committee    Industry Advisory Committee    Businesses and Institutions    Non-Profits    Residents



Engagement will help guide updates to the solid waste management plan

## GATHERING FEEDBACK

### *Guiding Principles: Values*

Consider values of everyone in the region

Values, interests, and priorities related to the handling of products, packaging, and materials that are no longer needed

### *Vision: Destination*

Important waste reduction, recycling, and garbage disposal topics, now and into the future

What could be better in the future

## FIRST NATIONS MEETINGS

- Meetings with seven of ten local First Nations:
  - ḡwɑ:ńłəń (Kwantlen First Nation)
  - kwikwəłəm (Kwikwetlem First Nation)
  - xʷməθkʷəyəm (Musqueam Indian Band)
  - Sḵwχwú7mesh Úxwumixw (Squamish Nation)
  - scə́wathən məsteyəxʷ (Tsawwassen First Nation)
  - səlílłwətaʔt (Tsleil-Waututh Nation)
  - máthxwi (Matsqui First Nation)

## FIRST NATIONS INPUT

Improve information sharing and engagement process with local First Nations

Consider the relevance of the plan update to First Nations

Improve accessibility of solid waste services and consider affordability

Increase awareness and education for waste management

Prioritize environmental stewardship

Collaborate on waste reduction programs and resources, and explore economic opportunities

## MEMBER JURISDICTIONS, ADJACENT REGIONAL DISTRICTS, AND ADVISORY COMMITTEES

*Letters sent to:*

- Member jurisdictions
- Adjacent regional districts (Fraser Valley, Sunshine Coast, Squamish-Lillooet)

# MEMBER JURISDICTIONS, ADJACENT REGIONAL DISTRICTS, AND ADVISORY COMMITTEES

Meetings with:

- Member Jurisdiction Staff Advisory Committees
  - REAC-SW / REAC / MWRCC
  - Invest Vancouver
- Zero Waste Committee/ Climate Action Committee
- Public/Technical Advisory Committee
- Industry Advisory Committee
- WMABC (invited presentation)



Public/Technical Advisory Committee Workshop on Vision and Guiding Principles

# COMMITTEE FEEDBACK

## Accessibility, equity and societal improvements

IAC, Member staff, PTAC

All groups have equal access to information, education and services.

## Accountability/Transparency

IAC, Member staff, PTAC

Ownership of responsibility from producers and consumers to reduce waste. Report regularly on progress and improve metrics.

## Affordability

IAC, Member staff, PTAC, WMABC

Consider cost of accessing recycling and waste services; cost of durable goods that last.

## Circular economy

IAC, IVAC, Member staff, PTAC

Repair, reuse and thrifting. Facilitate circular product design, support circular industries, and build public understanding about circular economy.

## COMMITTEE FEEDBACK

### Climate action

IAC, Member staff, PTAC, ZWC/CAC

Invest in systems that have the lowest climate impact. Align with corporate GHG emission goals

### Convenience and consistency

IAC, Member staff, PTAC, ZWC/CAC

Convenient, accessible, and harmonized services across communities

### Education and behavior change

IAC, Member staff, PTAC, ZWC/CAC, WMABC

Clear and consistent messages to encourage a cultural shift for sustainable consumption and to foster confidence in recycling systems.

### Environmental stewardship

Member staff, PTAC

Embed Indigenous knowledge and values such as environmental stewardship; reduce pollution and consider health impacts.

## COMMITTEE FEEDBACK

### Incentives

IAC, Member staff, PTAC

Incentivize diversion over disposal (e.g. taxation, recycling deposits)

### Innovation

IAC, Member staff, PTAC

Utilizing new technologies to reduce plastics and reduce GHG emission

### Policy and regulation

IAC, PTAC, WMABC

Regulatory framework that allows for innovation within the industry. Strategies and solutions to ensure adequate processing capacity.

### Product design and innovation

IAC, Member staff, PTAC, ZWC/CAC

Produce items to make them more circular and regenerative.

## COLLABORATIVE ENGAGEMENT

- Offering funding for organizations to engage on Metro Vancouver's behalf
- Non-profits or organizations with interest in solid waste management
- Providing up to \$5,000 to cover the cost of community outreach and engagement activities

## NEXT STEPS

- Launch public engagement
  - PNE
  - Online survey, webinars, workshops
  - Panel meetings with interested parties
  - Collaborative engagement
- Vision and guiding principles engagement summary report
- Reflections from Engagement Panel
- Draft vision statement and guiding principles to the Zero Waste Committee and Board for consideration



Questions?

**metro**vancouver

15



To: Zero Waste Committee

From: Allen Jensen, Senior Project Engineer, Solid Waste Services

Date: July 7, 2023

Meeting Date: July 13, 2023

Subject: **Draft Tipping Fee Bylaw Updates**

---

### **RECOMMENDATION**

That the Zero Waste Committee receive for information the report dated July 7, 2023, titled “Draft Tipping Fee Bylaw Updates”.

---

### **EXECUTIVE SUMMARY**

Metro Vancouver has a North American leading recycling rate and continues to strive towards zero waste, greenhouse gas emission reduction, and a circular economy. This success is in large part due to a robust solid waste policy and regulatory framework that encourages waste reduction and recycling, guided by the solid waste management plan. Key components of that framework include the generator levy and disposal bans on recyclable materials, which are implemented through the *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017*, as amended (Tipping Fee Bylaw). The generator levy encourages the use of Metro Vancouver and City of Vancouver solid waste facilities (regional solid waste facilities) where recyclable materials are banned from disposal, and ensures all garbage generators contribute to funding the cost of the regional solid waste system. The generator levy is included in the garbage tipping fee charged at regional solid waste facilities; however, if garbage is delivered to other facilities, haulers must pay the per-tonne generator levy directly to Metro Vancouver.

Draft updates to the Tipping Fee Bylaw streamline definitions, strengthen records management requirements, and promote generator levy compliance. Metro Vancouver will engage with the solid waste and recycling industry and others on the draft updates, and engagement feedback will be communicated to the Zero Waste Committee and Board along with any proposed updates to the Tipping Fee Bylaw.

### **PURPOSE**

The purpose of this report is to outline draft updates to the Tipping Fee Bylaw in advance of engagement with interested parties.

### **BACKGROUND**

Metro Vancouver is responsible for solid waste planning and the operation of a network of solid waste facilities comprised of Metro Vancouver’s six recycling and waste centres and the Waste-to-Energy Facility. The Vancouver Landfill and the Vancouver South Transfer Station are owned and operated by the City of Vancouver and are integrated into the regional solid waste system. Metro Vancouver advances waste reduction, improves reuse and recycling systems, and manages the remaining waste in an environmentally responsible manner. These services are funded through

garbage tipping fees collected at Metro Vancouver and City of Vancouver solid waste facilities (regional solid waste facilities) and the generator levy.

Metro Vancouver's regional network of solid waste facilities provide reliable and resilient waste and recycling services that benefit and are available to all residents and businesses in the region. Programs such as the disposal ban program applied at regional solid waste facilities encourage diversion of recyclable materials from the waste stream. Under the disposal ban program, certain recyclable or potentially hazardous materials are banned from disposal and a surcharge is applied if they are found in garbage loads delivered to regional solid waste facilities.

Generator levy provisions were integrated into the Tipping Fee Bylaw in 2017 and became effective January 1, 2018. Draft Tipping Fee Bylaw updates described in this report include streamlined definitions to increase clarity and enhance provisions related to the generator levy. Metro Vancouver will engage with the solid waste and recycling industry on the draft updates to the Tipping Fee Bylaw. Engagement feedback and proposed updates to the Tipping Fee Bylaw will be brought forward to the Zero Waste Committee and GVS&DD Board for consideration.

#### **GENERATOR LEVY AND DRAFT UPDATES TO TIPPING FEE BYLAW**

The generator levy is a key contributor to Metro Vancouver's continued success in advancing waste reduction, recycling, greenhouse gas emission reductions, and a circular economy. The generator levy is included in garbage tipping fees collected at regional solid waste facilities. Haulers collecting garbage generated from sources within the geographic area of the GVS&DD and delivering it to facilities other than regional solid waste facilities are required to collect and remit the generator levy to Metro Vancouver on a quarterly basis. Failure to remit the generator levy is a violation of the Tipping Fee Bylaw.

The generator levy is set by the Metro Vancouver Board, typically on an annual basis, and is currently \$59 per metric tonne, or roughly half the garbage tipping fee at regional solid waste facilities. The generator levy amount is the component of the tipping fee that represents the fixed costs of the solid waste system, including costs related to solid waste planning and the recycling and waste centre network.

The generator levy ensures that:

- All waste generators in the region contribute to funding the fixed costs of the regional solid waste system, including the operation of regional solid waste facilities and solid waste planning activities. This helps to ensure a robust, resilient, and responsive regional system;
- Disposal bans can be applied at regional solid waste facilities to encourage waste reduction, recycling, and greenhouse gas emission reduction;
- Reliable data on garbage quantities can be collected for waste reduction and infrastructure planning purposes; and
- Competition among waste collection companies is supported, as all haulers are subject to the same rules and requirements applied at regional solid waste facilities.

## **Tipping Fee Bylaw**

The Tipping Fee Bylaw sets garbage and recycling fees at Metro Vancouver solid waste facilities, lists banned materials including recyclable and hazardous materials, and sets the requirements for the generator levy. Draft updates to the Tipping Fee Bylaw, including a clean and blackline version, are included in Attachment 1. Three key categories of bylaw updates are described below.

### **Definitions**

Over the years, the Tipping Fee Bylaw has undergone several amendments connected to new and updated material disposal bans and the integration of generator levy provisions in 2017, which came into effect January 1, 2018. These changes over time have increased the overall complexity of the bylaw. To address these challenges and to provide consistency, revised terms and definitions have been drafted. For example, material categories now cascade from the overarching definition of “Solid Waste”, creating more consistency and simplicity. New terms for “Compliance Manager” and “Compliance Officer”, have also been added to better differentiate the roles from the “Manager” position.

### **Records Management Requirements Related to the Generator Levy**

Draft bylaw updates reduce ambiguity and strengthen the description of record management requirements for haulers, such as clarifying the requirement for records on a load by load basis. Updates include identifying new exemptions on record keeping requirements. Updates also confirm that record keeping is required for source-separated recyclables from residential and commercial/institutional sources in addition to garbage.

Updates to record keeping requirements will enhance Metro Vancouver’s ability to promote compliance with the generator levy, by requiring haulers to maintain, and submit to the Compliance Manager or a Compliance Officer if requested, detailed information on quantities of garbage and source-separated recyclables and where the garbage is delivered for disposal or processing.

### **Compliance Promotion**

Ensuring compliance with the generator levy provisions in the Tipping Fee Bylaw is important to all users of the regional solid waste system as well as for recycling industry participants that depend on Metro Vancouver’s regulatory framework to encourage generators and haulers to separate recyclables from garbage. Draft updates to the Tipping Fee Bylaw provide additional compliance promotion tools such as specifically providing a fine for non-compliance of up to \$200,000 per offence, and enhanced inspection powers for the Compliance Manager and Compliance Officers. The draft Tipping Fee Bylaw updates also include a disposal ban exemption for location-based electronic devices, as part of implementing the smart waste program to observe movement of garbage around the region.

### **Engagement**

Metro Vancouver will engage with the solid waste and recycling industry and others on the draft Tipping Fee Bylaw updates. Engagement will be designed to solicit feedback, provide opportunities for dialogue, raise awareness and share information on current generator levy requirements.

Key areas for engagement include ensuring:

- Updated definitions are complete and logical;
- Enhanced record keeping requirements are practical for the waste and recycling industry; and
- Exemptions are clear and appropriate.

Engagement will also provide an opportunity to increase general awareness of the generator levy requirements among the waste and recycling industry.

A summary of the feedback received during the engagement will be reported back to the Zero Waste Committee and Board. Following engagement, proposed Tipping Fee Bylaw updates will be brought forward to the Zero Waste Committee and Board for consideration.

### **Notice of Bylaw Enforcement and Dispute Adjudication Bylaw**

In April 2023, both GVS&DD and GVWD were added to the provincial *Bylaw Notice Enforcement Regulation*. Following updates to the Tipping Fee Bylaw, engagement on the development of solid waste provisions of a GVS&DD Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw will begin. Parallel processes are being developed in Liquid Waste Services and Water Services.

### **ALTERNATIVES**

This is an information report. No alternatives are presented.

### **FINANCIAL IMPLICATIONS**

The regional solid waste system is funded through garbage tipping fees, the generator levy, and other revenues associated with the operation of regional solid waste facilities such as the sale of recyclables and electricity from the Waste-to-Energy Facility. Bylaw updates clarifying record-management requirements and inspection powers, as well as supporting compliance promotion with the generator levy ensure that all generators of waste contribute to funding the costs of the regional solid waste system, and are critical to the financial sustainability of the system.

### **CONCLUSION**

The draft updates to the Tipping Fee Bylaw include updated definitions, updated records management requirements related to the generator levy, and more comprehensive inspection powers to promote compliance with the bylaw. Following engagement on the draft updates, proposed Tipping Fee Bylaw updates will be brought forward for consideration of the Zero Waste Committee and Board.

### **Attachments**

1. Clean and Blackline Versions of Draft Updates to GVS&DD Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017
2. Presentation re: Draft Tipping Fee Bylaw Updates

60357301

# **TIPPING FEE AND SOLID WASTE REGULATION BYLAW**

**THIS IS A CONSOLIDATION, FOR REFERENCE PURPOSES, OF:**

- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017  
*(Adopted October 27, 2017). Effective date January 1, 2018.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 308, 2017”  
*(Adopted November 24, 2017). Effective date January 1, 2018.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 312, 2018”  
*(Adopted February 23, 2018).*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 323, 2018”  
*(Adopted October 26, 2018).*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 330, 2019”  
*(Adopted November 1, 2019). Effective date January 1, 2020.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 336, 2020”  
*(Adopted February 28, 2020). Effective date March 1, 2020.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020”  
*(Adopted October 30, 2020). Effective date January 1, 2021*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 348, 2021”  
*(Adopted May 28, 2021). Effective date June 1, 2021*

- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 350, 2021”.  
*(Adopted October 29, 2021). Effective date January 1, 2022*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 354, 2022”.  
*(Adopted April 29, 2022). Effective date June 1, 2022*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 361, 2022”.  
*(Adopted October 28, 2022). Effective date January 1, 2023*

As of January 1, 2023  
COPIES OF THE ORIGINAL BYLAWS MAY BE INSPECTED AT  
BOARD AND INFORMATION SERVICES, METRO VANCOUVER

**GREATER VANCOUVER SEWERAGE AND DRAINAGE  
DISTRICT  
BYLAW NO. 306, 2017  
A Bylaw to Establish the Tipping Fee and Solid Waste Disposal  
Regulation**

**WHEREAS:**

- A. Pursuant to the *Greater Vancouver Sewerage and Drainage District Act* (the "**Act**") the objects of the Greater Vancouver Sewerage and Drainage District ("**GVS&DD**") include the disposal of all types of waste and the operation and administration of facilities for the disposal of all types of waste;
- B. Section 7A(5)(b) of the Act empowers the GVS&DD to establish the uses to which its waste disposal facilities may be put and by whom they may be used;
- C. Section 7A(5)(g) of the Act empowers the GVS&DD to establish scales of charges for services rendered by the GVS&DD and for the use of any of the GVS&DD's waste disposal facilities;

*Amended by Bylaw 350, 2021*

- D. In relation to the disposal of solid waste generated within its area, section 7B of the Act empowers the GVS&DD to set levies payable by generators of waste or by other persons who use the services of a Waste Hauler based on the quantity, volume, type or composition of waste generated; and
- E. The GVS&DD intends for the fees and levies imposed by this Bylaw to raise sufficient revenue from everyone who benefits from solid waste management in the region, to offset the costs incurred by the GVS&DD to provide solid waste management in the region, including the fixed costs of the region's recycling and waste centre network and waste reduction and recycling planning activities.

**NOW THEREFORE** the Board of the GVS&DD in open meeting assembled, enacts as follows:

**1.0 Repeal of Bylaw**

- 1.1 "Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 302, 2016" is hereby repealed.
- 1.2 "Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 304, 2017" is hereby repealed.

**2.0 Citation**

- 2.1 The official citation for this Bylaw is "Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017".

2.2 This Bylaw may be cited as the "Tipping Fee Bylaw".

### **3.0 Definitions**

3.1 In this Bylaw:

**"Act"** has the meaning set out in the Recitals;

**"Agricultural By-Product"** has the same meaning as the *Code of Practice for Agricultural Environmental Management*, B.C. Reg. 8/2019, adopted pursuant to the *Environmental Management Act*, and includes materials that are produced for the purposes of an agricultural operation but are incidental or secondary to the primary product of the agricultural operation, manure, soiled animal bedding, agricultural vegetative debris and used mushroom-growing substrate;

**"Banned Recyclable Materials"** means the specific materials, substances and objects listed in Schedule "D";

**"Board"** means the board of directors of the GVS&DD;

**"Clean Wood"** means Municipal Solid Waste that comprises solid wood, lumber or pallets:

- (i) that does not contain any glues or resins;
- (ii) that is unpainted, unstained and untreated; and
- (iii) that may or may not be pierced with nails or other metal fasteners;

**"Collection Location"** means an address from which a Waste Hauler picks up or transports Solid Waste;

**"Compliance Manager"** means the person employed by MVRD as the Director of Environmental Regulation and Enforcement and includes any person designated to act in their place from time to time;

**"Compliance Officer"** means a person employed by MVRD as an Environmental Control Officer, a Permitting and Enforcement Officer or an Assistant Permitting and Enforcement Officer;

*Added by Bylaw 354, 2022, effective June 1, 2022*

**"Construction and Demolition Processing Residual Waste"** means Solid Waste that remains after Construction and Demolition Waste has been processed by a Private Construction and Demolition Waste Processing Facility to recover Recyclable Material such as wood, metals, glass and plastics;



*Replaced by Bylaw 350, 2021*

**"Construction and Demolition Waste"** means Solid Waste that originates from demolition or construction sources that has not been handled, managed or mixed with Solid Waste from other sources;

**"Contaminated Recyclable Paper"** means Recyclable Paper that has been contaminated with grease, oil, food residue or other material;

**"Corrugated Cardboard"** means Recyclable Paper that consists of a fluted corrugated sheet and one or two flat linerboards;

**"Delta Garbage"** means all Solid Waste originating from within the territorial boundaries of the City of Delta and disposed of at a Vancouver Disposal Site, but excluding Delta Residential Drop-off Garbage;

**"Delta Residential Drop-off Garbage"** means Solid Waste disposed of at a Vancouver Disposal Site by residential customers who reside in Delta;

*Added by Bylaw 308, 2017*

**"Disposal Rate"** is the difference between the Tipping Fee and the Generator Levy, and covers the GVS&DD's costs of transportation and disposal of waste;

**"Environmental Management Act"** means the *Environmental Management Act* S.B.C. 2003 c. 53;

**"Expanded Polystyrene Packaging"** means white expanded polystyrene used for protecting and distributing products, but excluding:

- (i) food and beverage containers;
- (ii) packing 'peanuts'; and
- (iii) expanded polystyrene that has been painted, soiled or treated.

**"Food Waste"** means Municipal Solid Waste that comprises food, including meat, fish, fat, dairy products, bread, baking products, fruits and vegetables, whether cooked or uncooked and packaged or unpackaged;

**"Generator"** means a person who generates Solid Waste, and includes a person who uses the services of a Waste Hauler for the pick up, transport or delivery of Solid Waste;

*Replaced by Bylaw 350, 2021*

**"Generator Levy"** means the levy payable by a Generator pursuant to this Bylaw at the rate set out at section 5.1;

*Replaced by Bylaw 323, 2018*

**"Green Waste"** means Municipal Solid Waste that comprises vegetative matter resulting from gardening, landscaping or land clearing that is capable of being composted and includes grass, shrub and tree branches, grass sod, flowers, weeds, leaves, vegetable stalks, brush and tree stumps with a maximum diameter of 30 centimetres and maximum length of 120 centimetres, but excludes Snow Flocked or Frosted Trees, Toxic Plants, Clean Wood, Food Waste and Agricultural By-Product;

*Added by Bylaw 308, 2017*

**"GVS&DD"** has the meaning set out in the Recitals;

**"Gypsum"** means Municipal Solid Waste that comprises board made of several plies of fiberboard, paper or felt bonded to a hardened gypsum plaster core that is also known as drywall and includes gypsum board that has been painted or covered in wallpaper;

**"Gypsum – New"** means Gypsum date stamped 1990 or newer that has not been previously installed and does not contain tape, paint or drywall mud;

**"Gypsum – Used"** means Gypsum without a date stamp, Gypsum that is date stamped before 1990, or Gypsum that contains tape, paint or drywall mud;

**"Hazardous and Operational Impact Materials"** means the specific materials, substances and objects listed in Schedule "C";

**"International Waste"** means Solid Waste originating from outside of Canada, but excluding Solid Waste from cruise ships from the United States;

**"Load"** means a quantity of Solid Waste that is or was contained within a single vehicle;

**"Manager"** means the person appointed to the position of General Manager, Solid Waste Services from time to time and includes any person appointed or designated to act in their place;

**"Mattresses"** means Municipal Solid Waste that comprises a case of canvas or other heavy cloth stuffed with wool, cotton, other fibers or similar material, with or without coiled springs, that was used as a bed or as support for a bed;

**"Mixed Solid Waste"** means Solid Waste that originates from residential, commercial or institutional sources, or any combination of Solid Waste from these sources and other sources, but excludes Source-Separated Recyclable Material or Construction and Demolition Waste;

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

**"Municipal Garbage"** means:

- (i) Loads that contain any Solid Waste picked up from or transported for single

family residences, whether or not mixed with other types of Solid Waste, and picked up or transported by local government, their contractors or by entities contracting directly with individual households where such pick up or transport occurs on a regular basis (typically: weekly, every two weeks or monthly); or

- (ii) Loads of Solid Waste picked up or transported exclusively from local government owned premises, such as parks, streets or public buildings, and picked up or transported by local government or their contractors;

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

**"Municipal Organics"** means:

- (i) Source-Separated Organic Waste picked up from or transported for single family residences by local government or their contractors where such pick up or transport occurs on a regular basis (typically: weekly, every two weeks or monthly); or
- (ii) Source-Separated Organic Waste picked up or transported exclusively from local government owned premises, such as parks, streets or public buildings, and picked up or transported by local government or their contractors;

**"Municipal Solid Waste"** means Solid Waste that originates from residential, commercial, institutional, demolition, land clearing or construction sources or Solid Waste included in the GVS&DD's solid waste management plan pursuant to the *Environmental Management Act*;

**"MVRD"** means the Metro Vancouver Regional District;

**"Noxious Weeds"** means the weeds designated as noxious weeds in Part I and Part II of Schedule A of the Weed Control Regulation, B.C. Reg. 143/2011 but excludes Giant Hogweed (*Heracleum Mantegazzianum*) and Spurge Laurel (*Daphne Laureola*);

*Added by Bylaw 336, 2020*

**"Out of Region Waste"** means Solid Waste that is originating from outside the geographic area of the MVRD but is not International Waste;

**"Peak Hours"** means from 10:00 am to 2:00 pm on Monday to Friday, excluding statutory holidays;

**"Personal Hygiene Products"** means personal care products such as diapers, feminine hygiene products and incontinence products;

*Added by Bylaw 354, 2022, effective June 1, 2022*

**"Private Construction and Demolition Waste Processing Facility"** means a facility that holds a valid and subsisting licence to receive Construction and Demolition Waste pursuant

to *Greater Vancouver Sewerage and Drainage District Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181, 1996*, as amended or replaced from time to time;

**"Product Steward"** means a legal entity, such as an organization, company or non-profit society, that develops and implements extended producer responsibility plans for managing the recovery of Product Stewardship Materials and fulfilling the obligations under the Recycling Regulation;

**"Product Stewardship Materials"** means the specific materials, substances and objects listed in Schedule "E";

*Added by Bylaw 312, 2018*

**"Qualified Private Facility"** means a facility that:

- (i) manages Mixed Solid Waste;
- (ii) reduces the total weight of incoming Mixed Solid Waste by at least 25%, calculated monthly, as a result of resource recovery or the production of fuel at the facility, provided always that any material delivered to a landfill, including material used for roads or for alternative daily cover, is included in the calculation as waste disposed from the facility; and
- (iii) operates in full compliance with all applicable laws, including holding a valid and subsisting license to manage Mixed Solid Waste pursuant to *Greater Vancouver Sewerage and Drainage District Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181, 1996*, as amended or replaced from time to time;

**"Quarter"** means, within any calendar year, the three month period from January 1 to March 31, April 1 to June 30, July 1 to September 30, or October 1 to December 31;

**"Receiving Facility"** means a Solid Waste Facility, Vancouver Disposal Site or other facility or location to which a Waste Hauler delivers Solid Waste;

**"Recycling Area"** means those parts of a Solid Waste Facility or Vancouver Disposal Site designated for Green Waste, Source-Separated Organic Waste, Clean Wood, Gypsum, Mattresses and the specific materials, substances and objects that comprise Recyclable Material;

*Replaced by Bylaw 350, 2021*

**"Recycling Fee"** the recycling fee charged by the GVS&DD for Green Waste, Municipal Organics, Source-Separated Organic Waste, Clean Wood, Gypsum, Mattresses and the specific materials, substances and objects that comprise Recyclable Material dropped off in the designated Recycling Area at a Solid Waste Facility, as set out in Table 3 of Schedule "B";

**"Recyclable Material"** means Solid Waste that has been diverted from disposal, and satisfies at least one of the following criteria:

---

Clean and Blackline Versions of Draft Updates to GVS&DD Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017

- (i) is organic material from residential, commercial or institutional sources and is capable of being or is being composted or anaerobically digested at a site;
- (ii) is managed as a marketable commodity with an established market by the owner or operator of a site;
- (iii) is being used in the manufacture of a new product that has an established market or is being processed as an intermediate stage of an existing manufacturing process;
- (iv) has been identified as a recyclable material in GVS&DD's solid waste management plan;
- (v) is any other material prescribed by the Lieutenant Governor in Council, or the Minister of the Environment pursuant to the *Environmental Management Act*;

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

**"Recyclable Paper"** means Municipal Solid Waste manufactured from thin sheets from wood pulp or other fibrous substances that may be converted into reusable materials and includes newspapers and inserts, magazines, telephone directories, catalogues, office papers, envelopes, boxboard, paper bags and mail, but excludes photographic paper, carbon paper, tissue paper, paper napkins or towels, and paper that is adhered to or coated with plastic or metal;

**"Recycling Regulation"** means the *Recycling Regulation*, B.C. Reg. 449/2004 adopted pursuant to the *Environmental Management Act*;

**"Regional Services Rate"** means the fee charged by the GVS&DD for solid waste management related services that the GVS&DD provides for the benefit of the entire geographic area of the GVS&DD including, but not limited to, system analysis and planning, regulation and enforcement, demolition, land clearing and construction waste management, recycling and sustainability initiatives and administration;

**"Snow Flocked or Frosted Tree"** means a natural tree that has received an application of a substance that looks like artificial snow.

**"Solid Waste"** means noxious, offensive, unwholesome, or discarded solid material;

*Amended by Bylaw 350, 2021*

**"Solid Waste Facility"** means any of the facilities listed in Schedule "A";

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

**"Source-Separated Organic Waste"** means unpackaged Food Waste, Green Waste, Clean Wood, Recyclable Paper that has been soiled by or comingled with food residue, or carbon paper, tissue paper, paper napkins or towels, or any combination thereof and does not

contain more than 0.05% (by wet weight) of any other type of Solid Waste;

*Replaced by Bylaw 312, 2018*

**"Source-Separated Recyclable Material"** means Recyclable Material that has been separated from Municipal Solid Waste by a Generator at the point of generation or pick up and which is accepted at a facility for the purposes of recycling;

*Replaced by Bylaw 330, 2020*

**"Special Handle Waste"** means Out of Region Waste, International Waste or Solid Waste that requires immediate destruction or is designated for product destruction by a regulatory agency;

**"Surcharge"** means the amount charged by the GVS&DD, in addition to the applicable Tipping Fee, for disposing of the type of Solid Waste, as set out in Table 4 of Schedule "B";

*Replaced by Bylaw 354, 2022, effective June 1, 2022*

**"Tipping Fee"** means the fee charged by the GVS&DD for disposing of Solid Waste at a Solid Waste Facility, as set out in Table 1 of Schedule "B", and which includes the Disposal Rate and the Generator Levy;

**"Toxic Plants"** means Devil's Club (*Oplopanax Horridus*), Giant Hogweed (*Heracleum Mantegazzianum*) and Spurge Laurel (*Daphne Laureola*).

*Replaced by Bylaw 354, 2022, effective June 1, 2022*

**"Transaction Fee"** means the fee charged by the GVS&DD, in addition to the Tipping Fee, for each Load of Solid Waste disposed of at a Solid Waste Facility, and each Load of Gypsum dropped off at a designated Recycling Area, as set out in Table 2 of Schedule "B";

**"Unsecured Load"** means a Load that is not tied and covered or otherwise secured to prevent any of the Load escaping from the vehicle;

**"Vancouver Disposal Site"** means either of the following facilities that are owned or operated by the City of Vancouver:

- (i) Vancouver Landfill located at 5400 72nd Street, Delta; and
- (ii) Vancouver South Transfer Station, Recycling Depot and Yard Trimmings Drop-off located at 377 West Kent Avenue North, Vancouver;

**"Vancouver Garbage"** means all Solid Waste that originates from within the territorial boundaries of the City of Vancouver and disposed of at a Vancouver Disposal Site;

**"Vehicle Operating Log"** means data associated with the pick up, transport or delivery of Solid Waste by a Waste Hauler's vehicle during each shift, including the Collection Location from which Solid Waste is picked up or transported, the number of kilometres over which the vehicle is driven during a shift, and the number of hours during which a vehicle is

operated for the purpose of picking up, transporting or delivering Solid Waste, but excluding information related to the vehicle operator's job performance such as the number or timing of off-duty hours;

*Added by Bylaw 308, 2017*

**"Waste Hauler"** means:

- (i) a municipality, including City of Vancouver, that picks up, transports or delivers Solid Waste; or
- (ii) a person who, on a commercial basis, picks up, transports or delivers Solid Waste;

**"Weight Only Ticket"** means a document provided at the scale house that records only the weight of the particular Load brought to a Solid Waste Facility.

#### **4.0 Restrictions and Prohibitions**

4.1 No person shall dispose of anything at a Solid Waste Facility except in accordance with this Bylaw.

*Replaced by Bylaw 336, 2020*

4.2 No person shall dispose of Solid Waste at a Solid Waste Facility unless it originates from within the geographic area of the MVRD.

*Replaced by Bylaw 336, 2020*

4.3 Despite section 4.2, acceptance at a Solid Waste Facility of Out of Region Waste and International Waste may be approved:

- (a) by the Manager for quantities up to 1,500 metric tonnes per Generator at the point of generation per 12-month period; or
- (b) by the Board for quantities greater than 1,500 metric tonnes per Generator at the point of generation per 12-month period;

4.4 No person shall dispose of any Loads that emit odours, fumes or particulate matter (such as dust) that cause or are capable of causing material discomfort to a person at a Solid Waste Facility, except that where expressly authorized by the Manager such Loads may be disposed of at the Waste-to-Energy Facility.

4.5 No person shall dispose of any Loads dominated by oily materials, substances or objects at a Solid Waste Facility, except that where expressly authorized by the Manager such Loads may be disposed of at the Waste-to-Energy Facility.

4.6 No person shall dispose of any Loads of Toxic Plants at a Solid Waste Facility, except that where expressly authorized by the Manager such Loads may be disposed of at the Waste to Energy Facility, double bagged and in dedicated Loads.

*Added by Bylaw 323, 2018*

- 4.7 Despite anything else in this Bylaw, Noxious Weeds can be disposed of as Solid Waste or as Green Waste;

*Sections 4.8 through 4.12 renumbered by Bylaw 323, 2018*

- 4.8 No person shall dispose of Gypsum at a Solid Waste Facility, except Gypsum that weighs less than one half tonne may be dropped off at a designated Recycling Area.
- 4.9 No person shall dispose of Mattresses at a Solid Waste Facility, except that four or fewer Mattresses per Load may be dropped off at a designated Recycling Area.
- 4.10 No person shall dispose of refrigerators, freezers, air conditioners, dehumidifiers, and water coolers at a Solid Waste Facility, except that four or fewer of these types of appliances per Load may be dropped off at a designated Recycling Area.
- 4.11 No person shall scavenge or salvage any Solid Waste from a Solid Waste Facility.
- 4.12 The Manager may prohibit a person who contravenes this Bylaw from disposing of Solid Waste at any Solid Waste Facility or dropping Recyclable Material in a designated Recycling Area for such period as the Manager may determine.

*Replaced by Bylaw 323, 2018*

5.0 **Levies, Rates and Charges**

*Replaced by Bylaw 350, 2021*

- 5.1 Every Generator of Municipal Solid Waste within the geographic area of the GVS&DD must pay the Generator Levy as follows:
- (a) the total amount of the Generator Levy payable by a Generator shall be calculated by multiplying the number of metric tonnes of Municipal Solid Waste generated by that Generator or picked up, transported or delivered by a Waste Hauler for that Generator, rounded up to the nearest tenth of a whole number, by the per metric tonne rate established under this Bylaw; and
  - (b) the rate established is \$59 per metric tonne of Municipal Solid Waste.
- 5.2 The quantity, in metric tonnes, of Municipal Solid Waste generated by a Generator shall be the actual quantity of Municipal Solid Waste generated or picked up, transported or delivered by a Waste Hauler for that Generator, if that amount can be verified at a Solid Waste Facility, or a reasonable approximation of the quantity determined by the GVS&DD in accordance with section 8.15.

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

- 5.3 Every Generator of Municipal Solid Waste within the geographic area of the GVS&DD must



pay the Generator Levy as follows:

- (a) to the GVS&DD at a Solid Waste Facility in accordance with section 5.4;
- (b) to the City of Vancouver at a Vancouver Disposal Site as part of the applicable tipping fee at that site; or
- (c) to a Waste Hauler that picks up, transports or delivers their Municipal Solid Waste.

*Replaced by Bylaw 350, 2021*

5.4 Unless otherwise permitted pursuant to a written agreement between a municipality and the GVS&DD, every person who disposes of Solid Waste at a Solid Waste Facility or drops off Recyclable Material in a designated Recycling Area must pay to the GVS&DD:

- (a) the applicable Tipping Fees set out in Table 1 of Schedule "B";
- (b) the Transaction Fee set out in Table 2 of Schedule "B";
- (c) the applicable Recycling Fees set out in Table 3 of Schedule "B"; and
- (d) the applicable Surcharges set out in Table 4 of Schedule "B",

and all such fees and charges must be paid before the person leaves the Solid Waste Facility.

*Renumbered by Bylaw 354, 2022, effective June 1, 2022*

5.5 Every person who disposes of Construction and Demolition Processing Residual Waste at a Solid Waste Facility must pay the applicable Tipping Fee set out in Table 1 of Schedule "B" and the Transaction Fee set out in Table 2 of Schedule "B".

*Sections 5.4 through 5.23 renumbered by Bylaw 354, 2022, effective June 1, 2022*

5.6 Every person who disposes of Special Handle Waste at the Waste-to-Energy Facility must pay the applicable Tipping Fee set out in Table 1 of Schedule "B" and the Transaction Fee set out in Table 2 of Schedule "B".

*Replaced by Bylaw 350, 2021*

5.7 Unless otherwise permitted pursuant to a written agreement between a municipality and the GVS&DD, every person who drops off a Load of Municipal Organics, Source-Separated Organic Waste, Green Waste, Clean Wood, Gypsum or Mattresses at a designated Recycling Area must pay the applicable Recycling Fee set out in Table 3 of Schedule "B".

5.8 If a person attends a Solid Waste Facility with a Load that contains any combination of Source-Separated Organic Waste, Green Waste, Food Waste, Clean Wood, Gypsum, Mattresses, Recyclable Material and/or other Solid Waste and the person chooses not to weigh-out after dropping off each part of the Load at the designated Recycling Areas, then the person must pay to the GVS&DD the Tipping Fee or Recycling Fee for the entire Load that is based on the highest fee payable for any part of the Load, in the amounts set out in

Schedule "B", together with any applicable Surcharges.

- 5.9 Every person who disposes of a Load at a Solid Waste Facility that contains a quantity of Banned Recyclable Materials other than Food Waste or Expanded Polystyrene Packaging that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load must pay a Surcharge in the amount set out in Table 4 of Schedule "B".
- 5.10 Every person who disposes of a Load at a Solid Waste Facility that contains Contaminated Recyclable Paper that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load must pay a Surcharge in the amount set out in Table 4 of Schedule "B".
- 5.11 Every person who disposes of a Load at a Solid Waste Facility that contains Expanded Polystyrene Packaging that exceeds either 20% of the total weight of the Load or 20% of the total volume of the Load must pay a Surcharge in the amount set out in Table 4 of Schedule "B".
- 5.12 Every person who disposes of a Load at a Solid Waste Facility that contains Food Waste that exceeds either 25% of the total weight of the Load or 25% of the total volume of the Load must pay a Surcharge in the amount set out in Table 4 of Schedule "B".

*Replaced by Bylaw 350, 2021*

- 5.13 Every person who drops off a Load of Municipal Organics or Source-Separated Organic Waste at a designated Recycling Area that contains more than 0.05% (by wet weight) of any other type of Solid Waste must pay a Surcharge in the amount set out in Table 4 of Schedule "B".
- 5.14 Every person who disposes of a Load at a Solid Waste Facility that contains any Hazardous and Operational Impact Materials or Product Stewardship Materials must pay a Surcharge in the amount set out in Table 4 of Schedule "B", plus the costs of remediation and clean up.
- 5.15 Every person who enters a Solid Waste Facility with an Unsecured Load must pay a Surcharge in the amount set out in Table 4 of Schedule "B".
- 5.16 Special Handle Waste is exempt from all Surcharges, but if a Load of Special Handle Waste contains any Hazardous and Operational Impact Materials, it will be subject to the costs of remediation and clean-up.
- 5.17 Where a single Load is subject to multiple Surcharges, the Surcharge with the highest value will apply for the weight of the entire Load.
- 5.18 Despite anything else in this Bylaw, in advance of any person transporting a single Load or multiple Loads to a Solid Waste Facility, the Manager may, at their discretion, waive any Surcharge or Surcharges or a portion thereof for a specified period and for specified classes of persons.

5.19 Despite anything else in this Bylaw, the Manager may, at their discretion, waive all fees and charges for a Load delivered to a Solid Waste Facility by a non-profit or volunteer group resulting from a community clean-up project, provided that:

*Replaced by Bylaw 335, 2020*

- (a) the community clean-up project is conducted within the geographic area of any MVRD member municipalities;
  - (b) the community clean-up project involves collecting Noxious Weeds or Solid Waste from the natural environment from any of the following publicly owned areas:
    - (i) green space, such as natural areas, recreational parks or playgrounds;
    - (ii) roads;
    - (iii) marine shorelines and harbours; or
    - (iv) lakes, ponds, rivers, creeks, streams or other natural waterways.
  - (c) the Load does not contain Banned Recyclable Materials, Product Stewardship Materials, or Hazardous and Operational Impact Materials;
  - (d) the Manager receives an advance written request from the non-profit or volunteer group prior to the date the community clean-up project is to be held;
  - (e) the Manager confirms in writing to the non-profit or volunteer group that fees and charges otherwise payable under this Bylaw will be waived; and
  - (f) the non-profit or volunteer group brings the Manager's written confirmation to the Solid Waste Facility at the time of disposal.
- 5.20 The weigh scales at Solid Waste Facilities weigh to the nearest 0.005 metric tonnes. For any person who does not have a customer charge account, as described in Schedule "F", the total amount payable to the GVS&DD is rounded to the nearest dollar.
- 5.21 Every person who enters a Solid Waste Facility to obtain a Weight Only Ticket must pay a fee of \$15 per ticket.
- 5.22 Every person who disposes of a Load at the Waste-to-Energy Facility that is made up of at least 85% by weight of metals will receive a credit of \$25 per tonne on exiting the scale house at the Waste-to-Energy Facility.
- 5.23 Despite section 5.4, any person may apply to the GVS&DD for a customer charge account in accordance with Schedule "F".

5.24 In the event the weigh scale system at a Solid Waste Facility is not functioning for any reason, the Manager may, at their discretion:

- (a) close the Solid Waste Facility until the weigh scale system is functioning; or
- (b) permit a person to dispose of a single Load at the Solid Waste Facility subject to the following:
  - (i) the Load must not measure more than 0.5 cubic metres in volume; and
  - (ii) the minimum Tipping Fee set out in Table 1 of Schedule "B", plus the Transaction Fee, will be charged for the Load.

5.25 In the event that a person enters a Solid Waste Facility with a rental vehicle, out-of-province or dealer licence plate, or previously left without payment then a \$50 deposit is required on entry to the Solid Waste Facility.

5.26 All unpaid fees, charges or levies imposed by this Bylaw are a debt due to the GVS&DD and the GVS&DD may take such action as it considers necessary and as permitted by law to collect the debt.

## **6.0 Regional Services Rate**

6.1 The Regional Services Rate is set at an amount equal to 6% of the Tipping Fee for Municipal Garbage, as specified in Table 1 of Schedule "B". The Regional Services Rate is included in all Tipping Fees.

6.2 Every Quarter, the City of Vancouver must record:

- (a) the total tonnage of Solid Waste;
- (b) the tonnage of Vancouver Garbage and Delta Garbage; and
- (c) the tonnage of Delta Residential Drop-off Garbage,

that is disposed of at the Vancouver Disposal Sites during that Quarter and provide such information to the GVS&DD and the City of Delta within 30 days of the end of the Quarter.

6.3 Every Quarter the GVS&DD will invoice the City of Vancouver for an amount equal to the Regional Services Rate for every tonne of Vancouver Garbage and Delta Residential Drop-off Garbage disposed of at the Vancouver Disposal Sites during the previous Quarter, and the City of Vancouver must remit payment to the GVS&DD within 30 days of the date of such invoice.

- 6.4 Every Quarter the GVS&DD will invoice the City of Delta for an amount equal to the Regional Services Rate for every tonne of Delta Garbage disposed of at the Vancouver Disposal Sites during the previous Quarter, and the City of Delta must remit payment to the GVS&DD within 30 days of the date of such invoice.

*Section 7 deleted by Bylaw 350, 2021*

**7.0 Apportionment of Recycling Depot Costs**

*Added by Bylaw 308, 2017*

**8.0 Waste Haulers**

- 8.1 Every Waste Hauler must collect the Generator Levy at the rate set out at section 5.1 with respect to all Municipal Solid Waste that the Waste Hauler picks up from, transports for or delivers for a Generator within the geographic area of the GVS&DD, other than:
- (a) the City of Vancouver, or its contractors, in respect of Municipal Garbage that is picked up or transported from within the geographic boundaries of the City of Vancouver and delivered to a Vancouver Disposal Site; or
  - (b) the City of Delta, or its contractors, in respect of Municipal Garbage that is picked up or transported from within the geographic boundaries of the City of Delta and delivered to a Vancouver Disposal Site.
- 8.2 A Waste Hauler who must collect the Generator Levy pursuant to section 8.1 must remit the full amount of the Generator Levy to the GVS&DD as follows:
- (a) where the Waste Hauler delivers the Municipal Solid Waste picked up from or transported for a Generator to a Solid Waste Facility, the Waste Hauler must remit the Generator Levy in accordance with section 5.4;
  - (b) where the Waste Hauler delivers the Municipal Solid Waste picked up from or transported for a Generator to a Vancouver Disposal Site, the Waste Hauler must remit the Generator Levy as part of the applicable tipping fee at that Vancouver Disposal Site; or
  - (c) where the Waste Hauler delivers the Municipal Solid Waste picked up from or transported for a Generator to a Receiving Facility other than a Solid Waste Facility or a Vancouver Disposal Site, the Waste Hauler must remit the Generator Levy directly to the GVS&DD on a quarterly basis in accordance with section 8.3.
- 8.3 Every Waste Hauler that picks up Municipal Solid Waste from Generators within the geographic area of the GVS&DD or that transports Municipal Solid Waste for Generators within the geographic area of the GVS&DD and delivers that Municipal Solid Waste, or any portion thereof, to a Receiving Facility other than a Solid Waste Facility or a Vancouver Disposal Site must remit the Generator Levy payable to the GVS&DD as follows:

- (a) for Municipal Solid Waste picked up, transported or delivered between January 1 to March 31, the Generator Levy is due on or before April 15 of each calendar year;
- (b) for Municipal Solid Waste picked up, transported or delivered between April 1 to June 30, the Generator Levy is due on or before July 15 of each calendar year;
- (c) for Municipal Solid Waste picked up, transported or delivered between July 1 to September 30, the Generator Levy is due on or before October 15 of each calendar; and
- (d) for Municipal Solid Waste picked up, transported or delivered between October 1 to December 31, the Generator Levy on or before January 15 of the following calendar year.

8.4 Every Waste Hauler that picks up Municipal Solid Waste from Generators within the geographic area of the GVS&DD or that transports Municipal Solid Waste for Generators within the geographic area of the GVS&DD must create and retain for at least five (5) years the following records, in an electronic or other format acceptable to the Compliance Manager, for inspection by the Compliance Manager or a Compliance Officer:

- (a) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD, for every Load;
- (b) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD and delivered to a Solid Waste Facility or Vancouver Disposal Site, for every- Load;
- (c) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of each Load comprised of Municipal Solid Waste that it picked up from or transported exclusively for Generators within the geographic area of the GVS&DD and delivered to a Receiving Facility other than Solid Waste Facility or a Vancouver Disposal Site, for every Load;
- (d) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of each Load comprised of Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD and mixed with Municipal Solid Waste picked up from or transported for Generators outside the geographic area of the GVS&DD, including the approximate break-down of the percentage of each Load that was Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD;

- (e) the name and address of the Receiving Facility and date and time that the Waste Hauler delivered Loads of Municipal Solid Waste that the Waste Hauler picked up from or transported for Generators within the geographic area of the GVS&DD, including Loads mixed with Municipal Solid Waste picked up from or transported for Generators outside the geographic area of the GVS&DD;
- (f) the Collection Location(s) for each Load of Municipal Solid Waste picked up from or transported for Generators within the geographic area of the GVS&DD;
- (g) the number of containers for each material type and each container's volume (by cubic metres or cubic yards) from which the Waste Hauler picked up or transported Municipal Solid Waste at each Collection Location within the geographic area of the GVS&DD;
- (h) the dates on which the Waste Hauler picked up or transported Municipal Solid Waste from each Collection Location within the geographic area of the GVS&DD;
- (i) daily routing information for vehicles picking up or transporting Municipal Solid Waste from within the geographic area of the GVS&DD;
- (j) for each vehicle that picks up or transports a Load of Municipal Solid Waste from within the geographic area of the GVS&DD:
  - (i) the vehicle identification number corresponding to the unique number displayed on the vehicle to facilitate matching receipts or weigh scale tickets for each Load delivered to a Receiving Facility;
  - (ii) the capacity of the vehicle (in cubic metres or cubic yards); and
  - (iii) Vehicle Operating Logs;
- (k) for each Load that contains Municipal Solid Waste picked up from or transported for a Generator within the geographic area of the GVS&DD, the weigh scale tickets or receipts from the applicable Receiving Facility; and
- (l) if the foregoing records created by the Waste Hauler do not use the definitions set out in this Bylaw to describe the materials picked up, transported or delivered by the Waste Hauler, a glossary of terms used in the foregoing records created by the Waste Hauler to the extent necessary to compare the materials picked up, transported or delivered by the Waste Hauler with the definitions of this Bylaw.

8.5 If additional records are requested by the Compliance Manager for the purpose of verifying the records described in section 8.4, a Waste Hauler must create and retain the requested records for at least five (5) years, in an electronic or other format acceptable to the Compliance Manager.

- 8.6 Every Waste Hauler must submit the records described in section 8.4 or section 8.5, as applicable, to the Compliance Manager or a Compliance Officer within 7 days of receiving a request for same from the Compliance Manager or a Compliance Officer.
- 8.7 Sections 5.1, 5.3, 8.2 and 8.3 do not apply where a Generator or Waste Hauler delivers a Load comprised of only Source-Separated Recyclable Material or Construction and Demolition Waste to a Receiving Facility other than a Solid Waste Facility or Vancouver Disposal Site.
- 8.8 Where a Load has not been accepted as Source-Separated Recyclable Material for the purpose of recycling by a facility other than a Solid Waste Facility or a Vancouver Disposal Site, the Manager may, at their discretion, waive any Surcharge or Surcharges or a portion thereof otherwise payable under this Bylaw in respect of such Load when delivered to a Solid Waste Facility.
- 8.9 Sections 8.4(f), (g), and (h) do not apply where a Waste Hauler, on behalf of local government or a Product Steward, picks up Municipal Garbage, Source-Separated Recyclable Material or Product Stewardship Materials from single family residences or transports Municipal Garbage, Source-Separated Recyclable Material or Product Stewardship Materials for single family residences, whether or not mixed with other types of Solid Waste.
- 8.10 Every Waste Hauler must permit the Compliance Manager or a Compliance Officer to inspect and make copies of the records required pursuant to section 8.4 and section 8.5.
- 8.11 For the purpose of ensuring compliance with this Bylaw, the powers of the Compliance Manager or a Compliance Officer include the power to enter on land or premises to:
- (a) inspect, analyze, measure, sample or test any substance, materials or Solid Waste to ascertain the class or quantity of the Solid Waste stored, picked up, transported or delivered;
  - (b) inspect the Load of any Waste Hauler's vehicle or require that any compartment of the vehicle or any container in or on the vehicle be opened;
  - (c) collect samples, take photographs, make audio or video recordings, make measurements, and document observations related to the storage, pick up, transport or delivery of Solid Waste; and
  - (d) examine waste management practices, operational procedures, waste handling protocols and recordkeeping systems, including an onboard vehicle computer system's Vehicle Operating Log.
- 8.12 No person shall obstruct or hinder the Compliance Manager or a Compliance Officer who is carrying out their duties or functions under this Bylaw.



- 8.13 No person shall misrepresent the class or quantities of Municipal Solid Waste picked up from, transported or delivered for Generators within the geographic area of the GVS&DD.
- 8.14 Any Waste Hauler who omits, fails or refuses to collect, on behalf of the GVS&DD, the Generator Levy from the Generators of Municipal Solid Waste in accordance with the requirements of section 8.1 or any Waste Hauler who omits, fails or refuses to remit the Generator Levy in accordance with sections 8.2(c) and 8.3 must pay the GVS&DD for the amount of the Generator Levy that it omitted, failed or refused to collect or remit.
- 8.15 If a Waste Hauler omits, fails or refuses to collect, on behalf of the GVS&DD, the Generator Levy from the Generators of Municipal Solid Waste in accordance with the requirements of section 8.1, or if the Waste Hauler omits, fails or refuses to submit any records when required under section 8.6, the GVS&DD may, for a given Quarter, estimate the class(es) or quantities of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler within the geographic area of the GVS&DD, based upon the following:
- (a) historical quantities of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler; and
  - (b) other data or information available to the GVS&DD.
- 8.16 An estimate of a class or quantity of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler in accordance with section 8.15 is, for the purpose of calculating the Generator Levy in accordance with this Bylaw, presumed to be the actual class or quantity of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler, unless within 30 days the Waste Hauler submits to the GVS&DD additional data or information in an electronic or other format acceptable to the GVS&DD that is sufficient to rebut the presumption.

*Replaced by Bylaw 312, 2018*

9.0 **Generator Levy Rebate**

*Replaced by Bylaw 350, 2021*

- 9.1 A Qualified Private Facility may apply to the GVS&DD for a rebate of the Generator Levy in respect of residual waste from the Qualified Private Facility delivered to a Solid Waste Facility or a Vancouver Disposal Site, where:
- (a) the residual waste is from the Qualified Private Facility only and is not mixed with Solid Waste from other sources;
  - (b) the Qualified Private Facility applies for the rebate within 30 days of the end of the calendar month in which the residual waste was delivered to a Solid Waste Facility or a Vancouver Disposal Site;
  - (c) all Tipping Fees and Surcharges payable under this Bylaw for residual waste from the

Qualified Private Facility have been paid for the calendar month;

- (d) the Qualified Private Facility provides documentation satisfactory to the Manager identifying:
  - (i) for each Load of Mixed Solid Waste received at the Qualified Private Facility originating within the geographic area of the GVS&DD, the date, time of delivery, name of the Waste Hauler, and the weight of the Load; and
  - (ii) for each Load of material leaving the Qualified Private Facility, the quantity, material type, date, and destination.

9.2 A Qualified Private Facility is not entitled to a rebate of the Generator Levy under Section 9.1 if any of the conditions set out in that section are not met.

*Replaced by Bylaw 350, 2021*

9.3 Subject to section 9.2, the GVS&DD will rebate to the Qualified Private Facility an amount equal to the Generator Levy paid for each tonne of residual waste delivered to either a Solid Waste Facility or a Vancouver Disposal Site in the immediately preceding calendar month, up to a maximum of 75% of the total Generator Levy received by the GVS&DD for Mixed Solid Waste delivered to the Qualified Private Facility in the immediately preceding calendar month.

*Section 10 renumbered by Bylaw 312, 2018.*

## 10.0 **Offences**

- 10.1. Any person who contravenes a provision of this Bylaw commits an offence and is liable on conviction to a fine not exceeding \$200,000.
- 10.2. Where there is an offence that continues for more than one day, separate fines, each not exceeding the maximum fine for the offence, may be imposed for each day or part thereof in respect of which the offence occurs or continues.
- 10.3. The Compliance Manager or a Compliance Officer is authorized to enforce this Bylaw where a person is alleged to have committed an offence and for that purpose may:
  - (a) take steps to ascertain whether the provisions of this Bylaw are being observed;
  - (b) initiate a proceeding; and
  - (c) determine an appropriate amount of the fine that the GVS&DD may seek to impose in the proceeding.
- 10.4. Nothing in this Bylaw limits the GVS&DD from utilizing any other remedy that would otherwise be available at law.

11.0 **Interpretation**

11.1 If a portion of this Bylaw is held to be invalid it shall be severed and the remainder of the Bylaw shall remain in effect.

*Replaced by Bylaw 350, 2021*

11.2 In this Bylaw, the word "person" includes natural persons, as well as businesses, households, strata corporations, institutions, non-profit societies, and corporations.

11.3 Unless otherwise specified, all references to sections or schedules are to sections or schedules of or to this Bylaw.

11.4 In this Bylaw, words importing the singular include the plural and vice versa.

11.5 Schedules "A", "B", "C", "D", "E", and "F" are attached to and form part of this Bylaw.

*Section 11 renumbered by Bylaw 312, 2018*

12.0 **Effective Date**

12.1 This Bylaw comes into force and takes effect XXXX.

**SCHEDULE "A"**

**SOLID WASTE FACILITIES**

- Central Surrey Recycling and Waste Centre located at 6711 154 Street, Surrey
- Langley Recycling and Waste Centre located at 1070 272 Street, Langley
- Maple Ridge Recycling and Waste Centre located at 10092 236 Street, Maple Ridge
- North Shore Recycling and Waste Centre located at 30 Riverside Drive, North Vancouver
- North Surrey Recycling and Waste Centre located at 9770 192 Street, Surrey
- United Boulevard Recycling and Waste Centre located at 995 United Boulevard, Coquitlam
- Waste-to-Energy Facility located at 5150 Riverbend Drive, Burnaby

**SCHEDULE “B”**

**Table 1-Tipping Fees for Solid Waste  
(including the Generator Levy and the Disposal Rate)**

	<b>Net Weight</b>	<b>North Shore Recycling and Waste Centre</b>	<b>North Surrey Recycling and Waste Centre</b>	<b>United Boulevard Recycling and Waste Centre</b>	<b>Central Surrey Recycling and Waste Centre</b>	<b>Maple Ridge Recycling and Waste Centre</b>	<b>Langley Recycling and Waste Centre</b>	<b>Waste-to-Energy Facility</b>
<b>Municipal Garbage</b>	All Loads	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne
<b>All Solid Waste other than Municipal Garbage, Construction and Demolition Processing Residual Waste, and Special Handle Waste</b>	0 to 0.99 metric tonnes	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>
	1.0 to 7.99 metric tonnes	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>
	8.0 metric tonnes or more	\$113/tonne	\$113/tonne	\$113/tonne	Not accepted.	Not accepted.	Not accepted.	\$113/tonne
<b>Construction and Demolition Processing Residual Waste</b>	All Loads	\$150/tonne	\$150/tonne	\$150/tonne	Not accepted.	Not accepted.	Not accepted.	\$150/tonne
<b>Minimum Tipping Fee for Solid Waste</b>	Minimum Tipping Fee during Peak Hours	\$20/Load	\$20/Load	\$20/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load
	Minimum Tipping Fee outside of Peak Hours	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load
<b>Special Handle Waste</b>	All Loads	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	\$268/tonne \$50 minimum.

<sup>1</sup>To a maximum of \$139 per Load.

<sup>2</sup>To a maximum of \$904 per Load.

Replaced by Bylaw 354, 2022, effective June 1, 2022

**Table 2 – Transaction Fee**

Each Load of Solid Waste disposed of at a Solid Waste Facility and each Load of Gypsum dropped off at a designated Recycling Area	\$5/Load
---	----------

**Table 3 – Recycling Fees for Recyclable Material dropped off in designated Recycling Areas**

	<b>North Shore Recycling and Waste Centre</b>	<b>North Surrey Recycling and Waste Centre</b>	<b>United Boulevard Recycling and Waste Centre</b>	<b>Central Surrey Recycling and Waste Centre</b>	<b>Maple Ridge Recycling and Waste Centre</b>	<b>Langley Recycling and Waste Centre</b>	<b>Waste-to-Energy Facility</b>
<b>Municipal Organics</b>	\$110/tonne, \$10 minimum	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.
<b>Source-Separated Organic Waste</b>	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	Not accepted.
<b>Green Waste</b>	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	Not accepted.
<b>Clean Wood</b>	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum.	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum.	Not accepted.
<b>Gypsum – New: less than ½ tonne</b>	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	Not accepted.
<b>Gypsum – Used: less than ½ tonne</b>	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	Not accepted.
<b>Mattresses</b>	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	Not accepted.

**Table 4 - Surcharges**

Loads containing Banned Recyclable Materials other than Food Waste or Expanded Polystyrene Packaging that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load (section 5.9)	50% of the applicable Tipping Fee
Loads containing Contaminated Recyclable Paper that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load (section 5.10)	50% of the applicable Tipping Fee
Loads containing Expanded Polystyrene Packaging that exceeds either 20% of the total weight of the Load or 20% of the total volume of the Load (section 5.11)	100% of the applicable Tipping Fee
Loads containing Food Waste that exceeds either 25% of the total weight of the Load or 25% of the total volume of the Load (section 5.12)	50% of the applicable Tipping Fee
Loads of Municipal Organics or Source-Separated Organic Waste containing more than 0.05% (by wet weight) of any other type of Solid Waste (section 5.13)	\$50 per Load
Loads containing any Hazardous and Operational Impact Materials or Product Stewardship Materials (section 5.14)	\$69 per Load plus any remediation or clean-up costs
Unsecured Loads (section 5.15)	50% of the applicable Tipping Fee to a maximum of \$50.00



## SCHEDULE "C"

### HAZARDOUS AND OPERATIONAL IMPACT MATERIALS

1. Agricultural By-Product;
2. Automobile parts and bodies;
3. Solid Waste that is on fire, smoldering, odourous, dusty, flammable or explosive;
4. Hazardous Waste as defined in the *Hazardous Waste Regulation*, B.C. Reg. 63/88;
5. Propane tanks;
6. Liquids or sludge;
7. Coated or uncoated wire, hosing, rope or cable exceeding 1.0 metre in length;
8. Dead animals;
9. Inert fill material including soil, sod, gravel, concrete and asphalt exceeding 0.5 cubic metres per load.
10. Excrement, other than amounts of pet excrement that are double bagged and discarded with Municipal Solid Waste and that do not exceed either 5% of the total weight of the Load or 5% of the total volume of the Load;
11. Personal Hygiene Products where the Personal Hygiene Products make up more than 10% of the Load unless the Personal Hygiene Products are double bagged in sealed plastic bags that are sufficiently durable to resist leaking or breaking during collection and disposal;
12. Barrels, drums, pails or other large (205 litre or greater) liquid containers;
13. Any single object that:
  - (a) weighs more than 100 kilograms; or
  - (b) exceeds 1.2 metres in width or 2.5 metres in length, except at the Waste-to-Energy Facility where a single object must not exceed 1.0 metre in length.
14. Gypsum;
15. Mattresses;
16. Railroad ties or creosote treated wood;
17. Toxic Plants;

18. Solid Waste that would cause undue risk of injury or occupational disease to any person at the Solid Waste Facility or that would otherwise contravene the *Occupational Health and Safety Regulation* B.C. Reg. 296/97 enacted pursuant to the *Workers Compensation Act*, as amended or replaced from time to time; and
19. Any other Solid Waste that the Manager considers unsuitable for handling at a Solid Waste Facility.

SCHEDULE "D"

**BANNED RECYCLABLE MATERIALS**

1. Beverage containers identified in "Schedule 1-Beverage Container Product Category" to the *Recycling Regulation*;
2. Containers other than beverage containers made of:
  - (a) metal;
  - (b) glass;
  - (c) polyethylene terephthalate (number 1 PET plastic), high density polyethylene (number 2 H D P E plastic), low density polyethylene (number 4 L D P E plastic) or polypropylene (number 5 PP); or
  - (d) composite materials to create rigid packaging consisting of paper and polyethylene (gable top cartons, frozen food boxes, ice cream cartons and microwaveable dinner cartons) or paper, polyethylene and aluminum (aseptic cartons);
3. Corrugated Cardboard;
4. Recyclable Paper;
5. Green Waste;
6. Food Waste;
7. Clean Wood; and
8. Expanded Polystyrene Packaging.

SCHEDULE "E"

**PRODUCT STEWARDSHIP MATERIALS**

1. The following materials pursuant to Schedule 2 – Residual Product Category to the *Recycling Regulation*:
  - (a) Solvents and flammable liquids;
  - (b) Pesticides;
  - (c) Gasoline;
  - (d) Pharmaceutical products and medications;
  - (e) Oil, oil filters and oil containers;
  - (f) Lubricating oils and lubricating oil containers;
  - (g) Paint and paint containers;
  - (h) Lead-acid batteries;
  - (i) Antifreeze and antifreeze containers;
2. Electronics and electrical products, including metal household and commercial appliance, as identified in Schedule 3 – Electronics and Electrical Products Category to the *Recycling Regulation*, but excluding electronic devices used to observe the movement of waste within the region;
3. Tires pursuant to Schedule 4 - Tire Product Category to the *Recycling Regulation*.

SCHEDULE "F"

**CUSTOMER CHARGE ACCOUNTS**

1. Any person wishing to establish a customer charge account with the GVS&DD must complete the GVS&DD's application for credit ("**Application for Credit**").
2. The Treasury Manager may approve the Application for Credit on behalf of GVS&DD and establish a customer charge account for a person for up to \$250,000.
3. The Division Manager of Financial Planning and Processes may approve the Application for Credit on behalf of GVS&DD and establish a customer charge account for a person for amounts up to \$500,000.
4. The Chief Financial Officer may approve the Application for Credit on behalf of GVS&DD and establish a customer charge account for a person for amounts up to \$2,000,000.
5. If the GVS&DD approves a person's Application for Credit and establishes a customer charge account, then:
  - (a) the person, or a Waste Hauler authorized by the person, may leave the Solid Waste Facility before paying the applicable Tipping Fees, Transaction Fee, Recycling Fees and Surcharges;  
and
  - (b) the GVS&DD will generate invoices for Tipping Fees, Transaction Fees, Recycling Fees and Surcharges on a monthly basis for up to the established customer charge account limit, which invoices are payable within 35 days.
6. Where a person fails or refuses to pay an invoice for Tipping Fees, Transaction Fees, Recycling Fees and Surcharges within 35 days, then the GVS&DD may rescind their customer charge account and the person must:
  - (a) pay interest at the rate of 1.25% per month (15% per year) compounded monthly and calculated daily on all amounts overdue, including all overdue interest, from the date the charge was due to the date of payment; and
  - (b) not dispose of any Solid Waste at a Solid Waste Facility or drop off Recyclable Material in a designated Recycling Area until any outstanding invoice has been paid in full.

# **TIPPING FEE AND SOLID WASTE REGULATION BYLAW**

## **THIS IS A CONSOLIDATION, FOR REFERENCE PURPOSES, OF:**

- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017  
*(Adopted October 27, 2017). Effective date January 1, 2018.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 308, 2017”  
*(Adopted November 24, 2017). Effective date January 1, 2018.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 312, 2018”  
*(Adopted February 23, 2018).*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 323, 2018”  
*(Adopted October 26, 2018).*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 330, 2019”  
*(Adopted November 1, 2019). Effective date January 1, 2020.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 336, 2020”  
*(Adopted February 28, 2020). Effective date March 1, 2020.*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020”  
*(Adopted October 30, 2020). Effective date January 1, 2021*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 348, 2021”  
*(Adopted May 28, 2021). Effective date June 1, 2021*

- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 350, 2021”.  
*(Adopted October 29, 2021). Effective date January 1, 2022*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 354, 2022”.  
*(Adopted April 29, 2022). Effective date June 1, 2022*
- “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 361, 2022”.  
*(Adopted October 28, 2022). Effective date January 1, 2023*

As of January 1, 2023  
COPIES OF THE ORIGINAL BYLAWS MAY BE INSPECTED AT  
BOARD AND INFORMATION SERVICES, METRO VANCOUVER

**GREATER VANCOUVER SEWERAGE AND DRAINAGE  
DISTRICT  
BYLAW NO. 306, 2017  
A Bylaw to Establish the Tipping Fee and Solid Waste Disposal  
Regulation**

**WHEREAS:**

- A. Pursuant to the *Greater Vancouver Sewerage and Drainage District Act* (the "**Act**") the objects of the Greater Vancouver Sewerage and Drainage District ("**GVS&DD**") include the disposal of all types of waste and the operation and administration of facilities for the disposal of all types of waste;
- B. Section 7A(5)(b) of the Act empowers the GVS&DD to establish the uses to which its waste disposal facilities may be put and by whom they may be used;
- C. Section 7A(5)(g) of the Act empowers the GVS&DD to establish scales of charges for services rendered by the GVS&DD and for the use of any of the GVS&DD's waste disposal facilities;

*Amended by Bylaw 350, 2021*

- D. In relation to the disposal of solid waste generated within its area, section 7B of the Act empowers the GVS&DD to set levies payable by generators of waste or by other persons who use the services of a Waste Hauler based on the quantity, volume, type or composition of waste generated; and
- ~~E. Section 55(4) of the Act empowers the GVS&DD to establish a method of apportionment of its costs among its member municipalities.~~
- E. The GVS&DD intends for the fees and levies imposed by this Bylaw to raise sufficient revenue from everyone who benefits from solid waste management in the region, to offset the costs incurred by the GVS&DD to provide solid waste management in the region, including the fixed costs of the region's recycling and waste centre network and waste reduction and recycling planning activities.

**NOW THEREFORE** the Board of the ~~Greater Vancouver Sewerage and Drainage District~~GVS&DD in open meeting assembled, enacts as follows:

**1.0 Repeal of Bylaw**

- 1.1 "Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 302, 2016" is hereby repealed.
- 1.2 "Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 304, 2017" is hereby repealed.



## 2.0 Citation

2.1 The official citation for this ~~bylaw~~Bylaw is "Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017".

2.2 This Bylaw may be cited as the "~~2018~~-Tipping Fee Bylaw".

## 3.0 Definitions

3.1 In this Bylaw:

"Act" has the meaning set out in the Recitals;

~~"Agricultural Waste" means Refuse that originates from an agricultural operation~~ "By-Product" has the same meaning as defined pursuant to the Code of Practice for Agricultural Waste Control Regulation Environmental Management, B.C. Reg. 134/19928/2019, adopted pursuant to the Environmental Management Act, and includes materials that are produced for the purposes of an agricultural operation but are incidental or secondary to the primary product of the agricultural operation, manure, soiled animal bedding, agricultural vegetative debris and used mushroom-medium and agricultural vegetation waste-growing substrate;

~~"Banned Materials" means Hazardous and Operational Impact Materials, Recyclable Materials or Product Stewardship Materials;~~ " means the specific materials, substances and objects listed in Schedule "D";

~~"Board" means the board of directors of the Greater Vancouver Sewerage and Drainage District~~ GVS&DD;

**"Clean Wood"** means Municipal Solid Waste that comprises solid wood, lumber or pallets:

- (i) that does not contain any glues or resins;
- (ii) that is unpainted, unstained and untreated; and
- (iii) that may or may not be pierced with nails or other metal fasteners;

"Collection Location" means an address from which a Waste Hauler picks up or transports Solid Waste;

"Compliance Manager" means the person employed by MVRD as the Director of Environmental Regulation and Enforcement and includes any person designated to act in their place from time to time;

"Compliance Officer" means a person employed by MVRD as an Environmental Control Officer, a Permitting and Enforcement Officer or an Assistant Permitting and Enforcement

Officer;

*Added by Bylaw 354, 2022, effective June 1, 2022*

**"Construction and Demolition Processing Residual Waste"** means RefuseSolid Waste that remains after Construction and Demolition Waste has been processed by a Private Construction and Demolition Waste Processing Facility to recover ~~materials~~Recyclable Material such as wood, metals, glass and plastics;

*Replaced by Bylaw 350, 2021*

~~"Construction and Demolition Waste"~~ means RefuseSolid Waste that originates from demolition or construction sources that has not been handled ~~or~~, managed or mixed with ~~waste~~Solid Waste from other sources;

**"Contaminated Recyclable Paper"** means Recyclable Paper that has been contaminated with grease, oil, food residue or other material;

**"Corrugated Cardboard"** means Recyclable Paper that consists of a fluted corrugated sheet and one or two flat linerboards;

**"Delta Garbage"** means all GarbageSolid Waste originating from within the territorial boundaries of the ~~Corporation~~City of Delta, ~~except and disposed of at a Vancouver Disposal Site, but excluding~~ Delta Residential Drop-off Garbage;

**"Delta Residential Drop-off Garbage"** means ~~Garbage brought to~~Solid Waste disposed of at a Vancouver Disposal Site by residential customers who reside in Delta;

*Added by Bylaw 308, 2017*

~~"Disposal Rate"~~ is the difference between the Tipping Fee and the Generator Levy, and ~~is generally calculated on covers~~ the ~~basis of the~~GVS&DD's costs of transportation and disposal of waste;

*Added by Bylaw 312, 2018*

~~"EMA Recyclable Material"~~ means a product or substance that has been diverted from disposal, and satisfies at least one of the following criteria:

- ~~(i) is organic material from residential, commercial or institutional sources and is capable of being composted, or is being composted, at a site;~~
- ~~(i) is managed as a marketable commodity with an established market by the owner or operator of a site;~~
- ~~(ii)(i) is being used in the manufacture of a new product that has an established market or is being processed as an intermediate stage of an existing manufacturing process;~~
- ~~(ii) has been identified as a recyclable material in a waste management plan;~~

~~(iii)(i) is any other material prescribed by the Lieutenant Governor in Council, or the Minister of the Environment pursuant to the *Environmental Management Act*;~~

**"Environmental Management Act"** means the *Environmental Management Act* S.B.C. 2003 c. 53;

**"Expanded Polystyrene Packaging"** means white expanded polystyrene used for protecting and distributing products, but excluding:

- (i) food and beverage containers;
- (ii) packing 'peanuts'; and
- (iii) expanded polystyrene that has been painted, soiled or treated.

**"Food Waste"** means Municipal Solid Waste that comprises food, including meat, fish, fat, dairy products, bread, baking products, fruits and vegetables, whether cooked or uncooked and packaged or unpackaged;

**"Garbage Generator"** means ~~the Municipal person who generates~~ Solid Waste ~~that is disposed, and includes a person who uses the services of in a bunker, pit or on a Waste Hauler for the tipping floor, as opposed to a Recycling Area, at a pick up, transport or delivery of Solid Waste Facility or a Vancouver Disposal Site;~~

*Replaced by Bylaw 350, 2021*

**"Generator Levy"** means the levy payable by ~~the generator of Municipal Solid Waste a Generator pursuant to this bylaw in Bylaw at the amount rate set out at section 5, which is calculated annually on the basis of the amount required to recover the projected fixed costs of the regional recycling and waste centre network and solid waste planning, including the Regional Services Rate. 1;~~

**"Greater Vancouver Sewerage and Drainage District Act"** or the "Act" means ~~the Greater Vancouver Sewerage and Drainage District Act S.B.C. 1956 c. 59;~~

*Replaced by Bylaw 323, 2018*

**"Green Waste"** means Municipal Solid Waste that comprises vegetative matter resulting from gardening, landscaping or land clearing that is capable of being composted and includes grass, shrub and tree branches, grass sod, flowers, weeds, leaves, vegetable stalks, brush and tree stumps with a maximum diameter of 30 centimetres and maximum length of 120 centimetres, but excludes Snow Flocked or Frosted Trees, Toxic Plants, Clean Wood, Food Waste and Agricultural ~~Waste By-Product~~;

*Added by Bylaw 308, 2017*

**"GVS&DD"** means ~~has the Greater Vancouver Sewerage and Drainage District meaning set out in the Recitals;~~

"Gypsum" means Municipal Solid Waste that comprises board made of several plies of fiberboard, paper or felt bonded to a hardened gypsum plaster core that is also known as drywall and includes gypsum board that has been painted or covered in wallpaper;

"Gypsum – New" means Gypsum date stamped 1990 or newer that has not been previously installed and does not contain tape, paint or drywall mud;

"Gypsum – Used" means Gypsum without a date stamp, Gypsum that is date stamped before 1990, or Gypsum that contains tape, paint or drywall mud;

"Hazardous and Operational Impact Materials" means the ~~classes of Refuses~~specific materials, substances and objects listed in Schedule "C";

"International Waste" means ~~Municipal~~ Solid Waste originating from outside of Canada, but ~~excludes Refuse~~excluding Solid Waste from cruise ships from the United States;

"Load" means a quantity of ~~Municipal~~ Solid Waste that is or was contained within a single vehicle ~~attending at a Solid Waste Facility~~;

"Manager" means the person appointed to the position of General Manager, Solid Waste Services from time to time and includes any person appointed or designated to act in ~~his or her~~their place;

"Mattresses" means Municipal Solid Waste that comprises a case of canvas or other heavy cloth stuffed with wool, cotton, other fibers or similar material, with or without coiled springs, that was used as a bed or as support for a bed;

"Mixed Solid Waste" means Solid Waste that originates from residential, commercial or institutional sources, or any combination of Solid Waste from these sources and other sources, but excludes Source-Separated Recyclable Material or Construction and Demolition Waste;

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

"Municipal Garbage" means:

- (i) Loads that contain any ~~Municipal~~ Solid Waste ~~collected~~picked up from or transported for single family residences, whether or not mixed with other types of ~~Municipal~~ Solid Waste, and ~~collected~~picked up or transported by local government, their contractors or by entities contracting directly with individual households where such ~~collection~~pick up or transport occurs on a regular basis (typically: weekly, every two weeks or monthly); or
- (ii) Loads of ~~Municipal~~ Solid Waste ~~collected~~picked up or transported exclusively from local government owned premises, such as parks, streets or public buildings, and ~~collected~~picked up or transported by local government or their

---

Consolidation of Greater Vancouver Sewerage Clean and Drainage Blackline Versions of Draft Updates to GVS&DD Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017

contractors;

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

**"Municipal Organics"** means:

- (i) ~~curbside-collected~~ Source-Separated Organic Waste, ~~collected~~ picked up from or transported for single family residences by local government or their contractors where such ~~collection~~ pick up or transport occurs on a regular basis (typically: weekly, every two weeks or monthly); or
- (ii) Source-Separated Organic Waste ~~collected~~ picked up or transported exclusively from local government owned premises, such as parks, streets or public buildings, and ~~collected~~ picked up or transported by local government or their contractors;

*Added by Bylaw 336, 2020*

**"MVRD"** means the Metro Vancouver Regional District;

*Replaced by Bylaw 350, 2021*

**"Mixed Municipal Solid Waste"** means ~~Refuse~~ Solid Waste that originates from residential, commercial ~~or institutional sources, or any combination of waste or Refuse from these sources and other sources, but does not include Source-Separated Recyclable Material or Construction and Demolition Waste;~~

**"Municipal Solid Waste"** means ~~Refuse that originates from residential, light industrial, commercial, institutional, demolition, land clearing or construction sources or Refuse specified to be~~ Solid Waste included in the GVS&DD's solid waste management plan pursuant to the *Environmental Management Act*;

**"MVRD"** means the Metro Vancouver Regional District;

**"Noxious Weeds"** means the weeds designated as noxious weeds in Part I and Part II of Schedule A of the Weed Control Regulation, B.C. Reg. 143/2011 but excludes Giant Hogweed (*Heracleum Mantegazzianum*) and Spurge Laurel (*Daphne Laureola*);

*Added by Bylaw 336, 2020*

**"Out of Region Waste"** means ~~Municipal~~ Solid Waste that is originating from outside the geographic area of the MVRD but is not International Waste;

**"Peak Hours"** means from 10:00 am to 2:00 pm on Monday to Friday, excluding statutory holidays;

**"Personal Hygiene Products"** means personal care products such as diapers, feminine hygiene products and incontinence products;

*Added by Bylaw 354, 2022, effective June 1, 2022*

---

~~Consolidation of Greater Vancouver Sewerage Clean and Drainage~~ Blackline Versions of Draft Updates to GVS&DD Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017

**"Private Construction and Demolition Waste Processing Facility"** means a facility that holds a valid and subsisting licence to receive Construction and Demolition Waste pursuant to *Greater Vancouver Sewerage and Drainage District Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181, 1996*, as amended or replaced from time to time;

**"Product Steward"** means a legal entity, such as an organization, company or non-profit society, that develops and implements extended producer responsibility plans for managing the recovery of Product Stewardship Materials and fulfilling the obligations under the Recycling Regulation;

**"Product Stewardship Materials"** means the classes of Refusespecific materials, substances and objects listed in Schedule "E";

*Added by Bylaw 312, 2018*

*Added by Bylaw 312, 2018*

**"Qualified Private Facility"** means a facility that:

- (i) manages Mixed ~~Municipal~~ Solid Waste;
- (ii) reduces the total weight of incoming Mixed ~~Municipal~~ Solid Waste by at least 25%, calculated monthly, as a result of resource recovery or the production of fuel at the facility, provided always that any material delivered to a landfill, including material used for roads or for alternative daily cover, is included in the calculation as waste disposed from the facility; and
- (iii) operates in full compliance with all applicable laws, including holding a valid and subsisting license to manage Mixed ~~Municipal~~ Solid Waste pursuant to *Greater Vancouver Sewerage and Drainage District Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181, 1996*, as amended or replaced from time to time;

**"Quarter"** means, within any calendar year, the three month period from January 1 to March 31, April 1 to June 30, July 1 to September 30, or October 1 to December 31;

~~**"Recyclable Materials"** means the classes of Refuse listed in Schedule "D";~~

**"Receiving Facility"** means a Solid Waste Facility, Vancouver Disposal Site or other facility or location to which a Waste Hauler delivers Solid Waste;

**"Recycling Area"** means those parts of a Solid Waste Facility or Vancouver Disposal Site designated for Green Waste, Source-Separated Organic Waste, Clean Wood, Gypsum, Mattresses and the specific materials, substances and objects that comprise Recyclable Materials and Product Stewardship Materials~~Material;~~

*Replaced by Bylaw 350, 2021*

**"Recycling Fee"** the recycling fee charged by the GVS&DD for Green Waste, Municipal Organics, Source-Separated Organic Waste, Clean Wood, Gypsum, Mattresses and the specific materials, substances and objects that comprise Recyclable ~~Materials~~**Material** dropped off in the designated Recycling Area at a Solid Waste Facility, as set out in Table 3 of Schedule "B"~~of this Bylaw";~~;

**"Recyclable Material"** means Solid Waste that has been diverted from disposal, and satisfies at least one of the following criteria:

- (i) is organic material from residential, commercial or institutional sources and is capable of being or is being composted or anaerobically digested at a site;
- (ii) is managed as a marketable commodity with an established market by the owner or operator of a site;
- (iii) is being used in the manufacture of a new product that has an established market or is being processed as an intermediate stage of an existing manufacturing process;
- (iv) has been identified as a recyclable material in GVS&DD's solid waste management plan;
- (v) is any other material prescribed by the Lieutenant Governor in Council, or the Minister of the Environment pursuant to the *Environmental Management Act*;

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

**"Recyclable Paper"** means Municipal Solid Waste manufactured from thin sheets from wood pulp or other fibrous substances that may be converted into reusable materials and includes newspapers and inserts, magazines, telephone directories, catalogues, office papers, envelopes, boxboard, paper bags and mail, but excludes photographic paper, carbon paper, tissue paper, paper napkins or towels, and paper that is adhered to or coated with plastic or metal;

**"Recycling Regulation"** means the *Recycling Regulation*, B.C. Reg. 449/2004 adopted pursuant to the *Environmental Management Act*;

~~**"Refuse"** means discarded or abandoned materials, substances or objects;~~

**"Regional Services Rate"** means the fee charged by the GVS&DD for solid waste management related services that the GVS&DD provides for the benefit of the entire geographic area of the GVS&DD including, but not limited to, system analysis and planning, regulation and enforcement, demolition, land clearing and construction waste management, recycling and sustainability initiatives and administration;

~~**"Snow Flocked or Frosted Tree"**~~ means a natural tree that has received an application of a substance that looks like artificial snow.

**"Solid Waste"** means noxious, offensive, unwholesome, or discarded solid material;

*Amended by Bylaw 350, 2021*

**"Solid Waste Facility"** means any of the ~~Municipal Solid Waste disposal~~ facilities listed in Schedule "A";

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

**"Source-Separated Organic Waste"** means unpackaged Food Waste, Green Waste, Clean Wood, Recyclable Paper that has been soiled by or comingled with food residue, or carbon paper, tissue paper, paper napkins or towels, or any combination thereof and does not contain more than 0.05% (by wet weight) of any other type of ~~Refuse~~Solid Waste;

*Replaced by Bylaw 312, 2018*

**"Source-Separated Recyclable Material"** means ~~EMA~~ Recyclable Material that has been separated from Municipal Solid Waste by ~~the waste generator~~ Generator at the point of generation or pick up and which is accepted at a facility for the purposes of recycling;

*Replaced by Bylaw 330, 2020*

**"Special Handle Waste"** means Out of Region Waste, International Waste ~~and Municipal~~or Solid Waste that requires immediate destruction or is designated for product destruction by a regulatory agency;

**"Surcharge"** means the amount charged by the GVS&DD, in addition to the applicable Tipping Fee, for disposing of ~~Banned Materials at a~~ the type of Solid Waste ~~Facility~~, as set out in Table 4 of Schedule "B" ~~of this Bylaw;~~;

*Replaced by Bylaw 354, 2022, effective June 1, 2022*

**"Tipping Fee"** means the fee charged by the GVS&DD for disposing of ~~Garbage, Construction and Demolition Processing Residual Waste or Special Handle Waste~~Solid Waste at a Solid Waste Facility, as set out in Table 1 of Schedule "B" ~~of this Bylaw;~~, and which includes the Disposal Rate and the Generator Levy;

**"Toxic Plants"** means Devil's Club (*Oplonanax Horridus*), Giant Hogweed (*Heracleum Mantegazzianum*) and Spurge Laurel (*Daphne Laureola*).

*Replaced by Bylaw 354, 2022, effective June 1, 2022*

**"Transaction Fee"** means the fee charged by the GVS&DD, in addition to the Tipping Fee, for ~~all Load~~each Load of ~~Garbage or Construction and Demolition Processing Residual Waste~~Solid Waste disposed of at a Solid Waste Facility, ~~all Loads of Special Handle Waste disposed of at the Waste-to-Energy Facility and all Loads~~ and each Load of Gypsum dropped off at a designated Recycling ~~Areas~~Area, as set out in Table 2 of Schedule "B" ~~of this Bylaw;~~;

**"Unsecured Load"** means a Load that is not tied and covered or otherwise secured to prevent any of the Load escaping from the vehicle;

**"Vancouver Disposal Site"** means either of the following ~~Municipal Solid Waste disposal Consolidation of Greater Vancouver Sewerage Clean and Drainage~~Blackline Versions of Draft Updates to GVS&DD Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017



facilities that are owned or operated by the City of Vancouver:

- (i) Vancouver Landfill located at 5400 72nd Street, Delta; and
- (ii) Vancouver South Transfer Station, Recycling Depot and Yard Trimmings Drop-off located at 377 West Kent Avenue North, Vancouver; ~~and~~

**"Vancouver Garbage"** means all ~~Garbage~~Solid Waste that originates from within the territorial boundaries of the City of Vancouver; ~~and disposed of at a Vancouver Disposal Site;~~

**"Vehicle Operating Log"** means data associated with the pick up, transport or delivery of Solid Waste by a Waste Hauler's vehicle during each shift, including the Collection Location from which Solid Waste is picked up or transported, the number of kilometres over which the vehicle is driven during a shift, and the number of hours during which a vehicle is operated for the purpose of picking up, transporting or delivering Solid Waste, but excluding information related to the vehicle operator's job performance such as the number or timing of off-duty hours;

*Added by Bylaw 308, 2017*

~~"Waste Hauler" has the same meaning as in the Act." means:~~

- ~~(i) "a municipality, including City of Vancouver, that picks up, transports or delivers Solid Waste; or~~
- ~~(ii) a person who, on a commercial basis, picks up, transports or delivers Solid Waste;~~

**"Weight Only Ticket"** means a document provided at the scale house that records only the weight of the particular Load brought to a Solid Waste Facility.

#### **4.0 Restrictions and Prohibitions**

4.1 No person shall dispose of anything at a Solid Waste Facility except in accordance with this Bylaw.

*Replaced by Bylaw 336, 2020*

4.2 No person shall dispose of ~~Municipal~~ Solid Waste at a Solid Waste Facility unless it originates from within the geographic area of the MVRD.

*Replaced by Bylaw 336, 2020*

4.3 Despite section 4.2, acceptance at a Solid Waste Facility of Out of Region Waste and International Waste may be approved:

- (a) by the Manager for quantities up to 1,500 metric tonnes per ~~waste generator~~Generator at the point of generation per 12-month period; or

(b) by the Board for quantities greater than 1,500 metric tonnes per ~~waste generator~~Generator at the point of generation per 12-month period;

4.4 No person shall dispose of any Loads that emit odours, fumes or particulate matter (such as dust) that cause or are capable of causing material discomfort to a person at a Solid Waste Facility, except that where expressly authorized by the Manager such Loads may be disposed of at the Waste-to-Energy Facility.

4.5 No person shall dispose of any Loads dominated by oily materials, substances or objects at a Solid Waste Facility, except that where expressly authorized by the Manager such Loads may be disposed of at the Waste-to-Energy Facility.

4.6 No person shall dispose of any Loads of Toxic Plants at a Solid Waste Facility, except that where expressly authorized by the Manager such Loads may be disposed of at the Waste to Energy Facility, double bagged and in dedicated Loads.

*Added by Bylaw 323, 2018*

4.7 Despite anything else in this Bylaw, Noxious Weeds can be disposed of as ~~Garbage~~Solid Waste or as Green Waste;

*Sections 4.8 through 4.12 renumbered by Bylaw 323, 2018*

4.8 No person shall dispose of Gypsum at a Solid Waste Facility, except Gypsum that weighs less than one half tonne may be dropped off at a designated Recycling Area.

4.9 No person shall dispose of Mattresses at a Solid Waste Facility, except that four or fewer Mattresses per Load may be dropped off at a designated Recycling Area.

4.10 No person shall dispose of refrigerators, freezers, air conditioners, dehumidifiers, and water coolers at a Solid Waste Facility, except that four or fewer of these types of appliances per Load may be dropped off at a designated Recycling Area.

4.11 No person shall scavenge or salvage any ~~Municipal-Solid Waste or Recyclable Materials~~ from a Solid Waste Facility.

4.12 The Manager may prohibit a person who contravenes this Bylaw from disposing of ~~Municipal-Solid Waste~~ at any Solid Waste Facility or dropping Recyclable Material in a designated Recycling Area for such period as the Manager may determine.

*Replaced by Bylaw 323, 2018*

## 5.0 Levies, Rates and Charges

*Replaced by Bylaw 350, 2021*

5.1 Every Generator of Municipal Solid Waste within the geographic area of the GVS&DD must pay the Generator Levy as follows:

(a) the total amount of the Generator Levy payable by a Generator shall be calculated by multiplying the number of metric tonnes of Municipal Solid Waste generated by that Generator or picked up, transported or delivered by a Waste Hauler for that Generator, rounded up to the nearest tenth of a whole number, by the per metric tonne rate established under this Bylaw; and

(b) the rate established is \$59 per metric tonne of Municipal Solid Waste.

5.2 The quantity, in metric tonnes, of Municipal Solid Waste generated by a Generator shall be the actual quantity of Municipal Solid Waste generated or picked up, transported or delivered by a Waste Hauler for that Generator, if that amount can be verified at a Solid Waste Facility, or a reasonable approximation of the quantity determined by the GVS&DD in accordance with section 8.15.

*Replaced by Bylaw 361, 2022, effective January 1, 2023*

5.3 Every ~~person who generates~~Generator of Municipal Solid Waste within the geographic area of the GVS&DD must pay the Generator Levy ~~in the amount of \$59/tonne with respect to all Municipal Solid Waste which that person generates~~ as follows:

- (a) to the GVS&DD at a Solid Waste Facility in accordance with section 5.~~24~~;
- (b) to the City of Vancouver at a Vancouver Disposal Site as part of the applicable tipping fee at that site; or
- (c) to a Waste Hauler that picks up, transports or delivers their Municipal Solid Waste.

*Replaced by Bylaw 350, 2021*

5.4 Unless otherwise permitted pursuant to a written agreement between a municipality and the GVS&DD, every person who disposes of ~~Municipal~~ Solid Waste at a Solid Waste Facility or drops off Recyclable Material in a designated Recycling Area must pay to the GVS&DD:

- (a) the applicable Tipping Fees set out in Table 1 of Schedule "B";
- (b) the Transaction Fee set out in Table 2 of Schedule "B";
- (c) the applicable Recycling Fees set out in Table 3 of Schedule "B"; and
- (d) the applicable Surcharges set out in Table 4 of Schedule "B",

and all such fees and charges must be paid before the person leaves the Solid Waste Facility.

*Renumbered by Bylaw 354, 2022, effective June 1, 2022*

5.5 Every person who disposes of Construction and Demolition Processing Residual Waste at a Solid Waste Facility must pay the applicable Tipping Fee ~~specified set out~~ in Table 1 of Schedule "B" ~~of this Bylaw~~ and the Transaction Fee ~~specified set out~~ in Table 2 of Schedule "B" ~~of this Bylaw~~.

Sections 5.4 through 5.23 renumbered by Bylaw 354, 2022, effective June 1, 2022

- 5.6 Every person who disposes of Special Handle Waste at the Waste-to-Energy Facility must pay the applicable Tipping Fee ~~specified set out~~ in Table 1 of Schedule "B" ~~of this Bylaw~~ and the Transaction Fee ~~specified set out~~ in Table 2 of Schedule "B" ~~of this Bylaw~~.

Replaced by Bylaw 350, 2021

- 5.7 Unless otherwise permitted pursuant to a written agreement between a municipality and the GVS&DD, every person who drops off a Load of Municipal Organics, Source-Separated Organic Waste, Green Waste, Clean Wood, Gypsum or Mattresses at a designated Recycling Area must pay the applicable Recycling Fee ~~specified set out~~ in Table 3 of Schedule "B" ~~of this Bylaw~~.
- 5.8 If a person attends a Solid Waste Facility with a Load that contains any combination of Source-Separated Organic Waste, Green Waste, Food Waste, Clean Wood, Gypsum, Mattresses, ~~other~~ Recyclable ~~Materials~~ Material and/or other ~~Municipal~~ Solid Waste and the person chooses not to weigh-out after dropping off each part of the Load at the designated Recycling Areas, then the person must pay to the GVS&DD the Tipping Fee or Recycling Fee for the entire Load that is based on the highest fee payable for any part of the Load, in the amounts set out in Schedule "B" ~~of this Bylaw~~, together with any applicable Surcharges.
- 5.9 Every person who disposes of a Load at a Solid Waste Facility that contains a quantity of Banned Recyclable Materials other than Food Waste or Expanded Polystyrene Packaging that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load must pay a Surcharge in the amount set out in Table 4 of Schedule "B" ~~of this Bylaw~~.
- 5.10 Every person who disposes of a Load at a Solid Waste Facility that contains Contaminated Recyclable Paper that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load must pay a Surcharge in the ~~amounts~~ amount set out in Table 4 of Schedule "B" ~~of this Bylaw~~.
- 5.11 Every person who disposes of a Load at a Solid Waste Facility that contains Expanded Polystyrene Packaging that exceeds either 20% of the total weight of the Load or 20% of the total volume of the Load must pay a Surcharge in the ~~amounts~~ amount set out in Table 4 of Schedule "B" ~~of this Bylaw~~.
- 5.12 Every person who disposes of a Load at a Solid Waste Facility that contains Food Waste that exceeds either 25% of the total weight of the Load or 25% of the total volume of the Load must pay a Surcharge in the ~~amounts~~ amount set out in Table 4 of Schedule "B" ~~of this Bylaw~~.

Replaced by Bylaw 350, 2021

- 5.13 Every person who drops off a Load of Municipal Organics or Source-Separated Organic Waste at a designated Recycling Area that contains more than 0.05% (by wet weight) of any other type of Refuse Solid Waste must pay a Surcharge in the amount set out in Table 4 of Schedule "B" ~~of this Bylaw~~.

~~of this Bylaw.~~

- 5.14 Every person who disposes of a Load at a Solid Waste Facility that contains any Hazardous and Operational Impact Materials or Product Stewardship Materials must pay a Surcharge in the amount set out in Table 4 of Schedule "B"~~of this Bylaw,~~ plus the costs of remediation and clean up.
- 5.15 Every person who enters a Solid Waste Facility with an Unsecured Load must pay a Surcharge in the amount set out in Table 4 of Schedule "B"~~of this Bylaw.~~
- 5.16 Special Handle Waste is exempt from all Surcharges, but if a Load of Special Handle Waste contains any Hazardous and Operational Impact Materials, it will be subject to the costs of remediation and clean-up.
- 5.17 Where a single Load is subject to multiple Surcharges, the Surcharge with the highest value will apply for the weight of the entire Load~~—.~~
- 5.18 Despite anything else in this Bylaw, in advance of any person transporting a single Load or multiple Loads to a Solid Waste Facility, the Manager may, at ~~his or her~~their discretion, waive any Surcharge or Surcharges or a portion thereof for a specified period and for specified classes of persons.
- 5.19 Despite anything else in this Bylaw, the Manager may, at ~~his or her~~their discretion, waive all fees and charges for a Load delivered to a Solid Waste Facility by a non-profit or volunteer group resulting from a community clean-up project, provided that:

*Replaced by Bylaw 335, 2020*

- (a) the community clean-up project is conducted within the geographic area of any MVRD member municipalities;
- (b) the community clean-up project involves collecting Noxious Weeds~~, litter~~ or ~~abandoned waste~~Solid Waste from the natural environment from any of the following publicly owned areas:
- (i) green space, such as natural areas, recreational parks or playgrounds;
  - (ii) roads;
  - (iii) marine shorelines and harbours; or
  - (iv) lakes, ponds, rivers, creeks, streams or other natural waterways.
- (c) the Load does not contain Banned Recyclable Materials, Product Stewardship Materials, or Hazardous and Operational Impact Materials;

- (d) the Manager receives an advance written request from the non-profit or volunteer group prior to the date the community clean-up project is to be held;
  - (e) the Manager confirms in writing to the non-profit or volunteer group that fees and charges otherwise payable under this Bylaw will be waived; and
  - (f) the non-profit or volunteer group brings the Manager's written confirmation to the Solid Waste Facility at the time of disposal.
- 5.20 The weigh scales at Solid Waste Facilities weigh to the nearest 0.005 metric tonnes. For ~~those customers~~any person who ~~does~~ not have a customer charge account, as described in Schedule "F", the total amount payable to the GVS&DD is rounded to the nearest dollar.
- 5.21 Every person who enters a Solid Waste Facility to obtain a Weight Only Ticket must pay a fee of \$15 per ticket.
- 5.22 Every person who disposes of a Load at the Waste-to-Energy Facility that is made up of at least 85% by weight of metals will receive a credit of \$25 per tonne on exiting the scale house at the Waste-to-Energy Facility.
- 5.23 Despite section ~~5.1 of this Bylaw~~4, any person may apply to the GVS&DD for a customer charge account in accordance with Schedule "F" ~~to this Bylaw.~~.
- 5.24 In the event the weigh scale system at a Solid Waste Facility is not functioning for any reason, ~~at his or her discretion~~ the Manager may, at their discretion:
- (a) close the Solid Waste Facility until the weigh scale system is functioning; or
  - (b) permit a person to dispose of a single Load at the Solid Waste Facility subject to the following:
    - (i) the Load must not measure more than 0.5 cubic metres in volume; and
    - (ii) the minimum Tipping Fee set out in Table 1 of Schedule "B" ~~of this Bylaw,~~. plus the Transaction Fee, will be charged for the Load.
- 5.25 In the event that a ~~customer~~person enters ~~the~~a Solid Waste Facility with a rental vehicle, out-of-province or dealer licence plate, or previously left without payment then a \$50 deposit is required on entry to the Solid Waste Facility.
- 5.26 All unpaid fees, charges or levies imposed by this Bylaw are a debt due to the GVS&DD and the GVS&DD may take such action as it considers necessary and as permitted by law to collect the debt.

## 6.0 Regional Services Rate

6.1 The Regional Services Rate is set at an amount equal to 6% of the Tipping Fee for Municipal Garbage, as specified in Table ~~1 of 1~~ of Schedule "B". The Regional Services Rate is included in all Tipping Fees.

6.2 Every Quarter, the City of Vancouver must record:

- (a) the total tonnage of ~~Garbage~~Solid Waste;
- (b) the tonnage of Vancouver Garbage and Delta Garbage; and
- (c) the tonnage of Delta Residential Drop-off Garbage,

that is disposed of at the Vancouver Disposal Sites during that Quarter and provide such information to the GVS&DD and the ~~Corporation~~City of Delta within 30 days of the end of the Quarter.

6.3 Every Quarter the GVS&DD will invoice the City of Vancouver for an amount equal to the Regional Services Rate for every tonne of Vancouver Garbage and Delta Residential Drop-off Garbage disposed of at the Vancouver Disposal Sites during the previous Quarter, and the City of Vancouver must remit payment to the GVS&DD within 30 days of the date of such invoice.

6.4 Every Quarter the GVS&DD will invoice the ~~Corporation~~City of Delta for an amount equal to the Regional Services Rate for every tonne of Delta Garbage disposed of at the Vancouver Disposal Sites during the previous Quarter, and the ~~Corporation~~City of Delta must remit payment to the GVS&DD within 30 days of the date of such invoice.

*Section 7 deleted by Bylaw 350, 2021*

## 7.0 Apportionment of Recycling Depot Costs

*Added by Bylaw 308, 2017*

## 8.0 Waste Haulers

8.1 Every Waste Haulers~~Hauler~~ must collect the Generator Levy ~~in at~~ the ~~amount~~rate set out at section 5.1 ~~of this bylaw~~ with respect to all Municipal Solid Waste that the Waste Hauler ~~collects~~picks up from ~~generators of waste~~, transports for or delivers for a Generator within the geographic area of the GVS&DD ~~as an agent, other than:~~

- (a) the City of Vancouver, or its contractors, in respect of Municipal Garbage that is picked up or transported from within the geographic boundaries of the GVS&DD, City of Vancouver and delivered to a Vancouver Disposal Site; or

(b) the City of Delta, or its contractors, in respect of Municipal Garbage that is picked up or transported from within the geographic boundaries of the City of Delta and delivered to a Vancouver Disposal Site.

8.18.2 A Waste Hauler who ~~has collected~~must collect the Generator Levy ~~in accordance with pursuant to~~ section 8.1 must remit the full amount of the Generator Levy to the GVS&DD as follows:

- (a) where the Waste Hauler delivers the Municipal Solid Waste ~~collected~~picked up from ~~or transported for a generator~~Generator to a Solid Waste Facility, the Waste Hauler must remit the Generator Levy in accordance with section ~~5.2 of this bylaw; 4;~~
- (b) where the Waste Hauler delivers the Municipal Solid Waste ~~collected~~picked up from ~~or transported for a generator~~Generator to a Vancouver Disposal Site, the Waste Hauler must remit the Generator Levy as part of the applicable tipping fee at ~~those sites~~that Vancouver Disposal Site; or
- (c) where the Waste Hauler delivers the Municipal Solid Waste ~~collected~~picked up from ~~or transported for a generator~~Generator to a ~~facility or location~~Receiving Facility other than a Solid Waste Facility or a Vancouver Disposal Site, the Waste Hauler must remit the Generator Levy directly to the GVS&DD on a quarterly basis in accordance with section ~~8.43.~~

~~8.2~~ Every Waste Hauler that ~~handles~~picks up Municipal Solid Waste ~~from Generators~~ within the geographic area of the GVS&DD ~~must create and maintain the following records for at least 5 years:~~

- ~~(a) the quantity (by weight or volume) of or that transports Municipal Solid Waste collected from generators within the geographic area of the GVS&DD on a load by load basis;~~
- ~~(b) the quantity (by weight or volume) of Municipal Solid Waste collected from generators within the geographic area of the GVS&DD and delivered to a Solid Waste Facility or Vancouver Disposal Site on a load by load basis; and~~
- ~~(c) the quantity (by weight or volume) of Municipal Solid Waste collected from generators within the geographic area of the GVS&DD and delivered to facilities or locations other than to a Solid Waste Facility or Vancouver Disposal Site, on a load by load basis.~~

for Generators

~~8.3~~ Every Waste Hauler that ~~handles~~ Municipal Solid Waste collected from generators within the geographic area of the GVS&DD and delivers ~~any portion of that~~ Municipal Solid Waste, ~~or any portion thereof,~~ to a ~~facility or location~~Receiving Facility other than a Solid Waste Facility or a Vancouver Disposal Site must remit the Generator Levy ~~collected in the previous quarter~~



~~to the person appointed by the Board as the Solid Waste Manager, payable to the GVS&DD as follows:~~

- ~~(a) for Municipal Solid Waste picked up, transported or delivered between January 1 to March 31, the Generator Levy is due on or before April 15 of each calendar year;~~
- ~~(b) for Municipal Solid Waste picked up, transported or delivered between April 1 to June 30, the Generator Levy is due on or before July 15 of each calendar year;~~
- ~~(c) for Municipal Solid Waste picked up, transported or delivered between July 1 to September 30, the Generator Levy is due on or before October 15 of each calendar; and~~
- ~~(d) for Municipal Solid Waste picked up, transported or delivered between October 1 to December 31, the Generator Levy on or before January 15 of the following calendar year.~~

~~8.4 Every Waste Hauler that picks up Municipal Solid Waste from Generators within the geographic area of the GVS&DD or that transports Municipal Solid Waste for Generators within the geographic area of the GVS&DD must create and retain for at least five (5) years the following records, in an electronic or other format acceptable to the Compliance Manager, for inspection by the Compliance Manager or a Compliance Officer:~~

- ~~(a) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD, for every Load;~~
- ~~(b) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD and delivered to a Solid Waste Facility or Vancouver Disposal Site, for every Load;~~
- ~~(c) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of each Load comprised of Municipal Solid Waste that it picked up from or transported exclusively for Generators within the geographic area of the GVS&DD and delivered to a Receiving Facility other than Solid Waste Facility or a Vancouver Disposal Site, for every Load;~~
- ~~(d) the units of measure and quantity (by metric tonnes, cubic metres or cubic yards) of each Load comprised of Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD and mixed with Municipal Solid Waste picked up from or transported for Generators outside the geographic area of the GVS&DD, including the approximate break-down of the percentage of each Load that was Municipal Solid Waste that it picked up from or transported for Generators within the geographic area of the GVS&DD;~~

- (e) the name and address of the Receiving Facility and date and time that the Waste Hauler delivered Loads of Municipal Solid Waste that the Waste Hauler picked up from or transported for Generators within the geographic area of the GVS&DD, including Loads mixed with Municipal Solid Waste picked up from or transported for Generators outside the geographic area of the GVS&DD;
- (f) the Collection Location(s) for each Load of Municipal Solid Waste picked up from or transported for Generators within the geographic area of the GVS&DD;
- (g) the number of containers for each material type and each container's volume (by cubic metres or cubic yards) from which the Waste Hauler picked up or transported Municipal Solid Waste at each Collection Location within the geographic area of the GVS&DD;
- (h) the dates on which the Waste Hauler picked up or transported Municipal Solid Waste from each Collection Location within the geographic area of the GVS&DD;
- (i) daily routing information for vehicles picking up or transporting Municipal Solid Waste from within the geographic area of the GVS&DD;
- (j) for each vehicle that picks up or transports a Load of Municipal Solid Waste from within the geographic area of the GVS&DD:
  - (i) the vehicle identification number corresponding to the unique number displayed on the vehicle to facilitate matching receipts or weigh scale tickets for each Load delivered to a Receiving Facility;
  - (ii) the capacity of the vehicle (in cubic metres or cubic yards); and
  - (iii) Vehicle Operating Logs;
- (k) for each Load that contains Municipal Solid Waste picked up from or transported for a Generator within the geographic area of the GVS&DD, the weigh scale tickets or receipts from the applicable Receiving Facility; and
- (l) if the foregoing records created by the Waste Hauler do not use the definitions set out in this Bylaw to describe the materials picked up, transported or delivered by the Waste Hauler, a glossary of terms used in the foregoing records created by the Waste Hauler to the extent necessary to compare the materials picked up, transported or delivered by the Waste Hauler with the definitions of this Bylaw.

8.5 If additional records are requested by the Compliance Manager for the purpose of verifying the records described in section 8.4, a Waste Hauler must create and retain the requested

records for at least five (5) years, in an electronic or other format acceptable to the Compliance Manager.

8.6 Every Waste Hauler must submit the records described in section 8.4 or section 8.5, as applicable, to the Compliance Manager or a Compliance Officer within 7 days of receiving a request for same from the Compliance Manager or a Compliance Officer.

8.48.7 Sections 5.1, 5.3, 8.2, 8.3 and 8.4 of this bylaw<sup>3</sup> do not apply where a generator~~Generator~~ or Waste Hauler delivers a Load comprised of only Source-Separated Recyclable Material or Construction and Demolition Waste to a facility or location~~Receiving Facility~~ other than a Solid Waste Facility or Vancouver Disposal Site.

8.8 Where a Load has not been accepted as Source-Separated Recyclable Material for the purpose of recycling by a facility other than a Solid Waste Facility or a Vancouver Disposal Site, the Manager may, at their discretion, waive any Surcharge or Surcharges or a portion thereof otherwise payable under this Bylaw in respect of such Load when delivered to a Solid Waste Facility.

8.9 Sections 8.4(f), (g), and (h) do not apply where a Waste Hauler, on behalf of local government or a Product Steward, picks up Municipal Garbage, Source-Separated Recyclable Material or Product Stewardship Materials from single family residences or transports Municipal Garbage, Source-Separated Recyclable Material or Product Stewardship Materials for single family residences, whether or not mixed with other types of Solid Waste.

8.58.10 Every Waste Hauler must permit ~~any person appointed by the Board as the Solid Waste Manager or an Officer appointed pursuant to the Greater Vancouver and Drainage District Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181, 1996~~the Compliance Manager or a Compliance Officer to inspect and make copies of the records required pursuant to section 8.3 of this Bylaw, Mondays to Fridays between 9 am and 5 pm<sup>4</sup> and section 8.5.

8.11 For the purpose of ensuring compliance with this Bylaw, the powers of the Compliance Manager or a Compliance Officer include the power to enter on land or premises to:

(a) inspect, analyze, measure, sample or test any substance, materials or Solid Waste to ascertain the class or quantity of the Solid Waste stored, picked up, transported or delivered;

(b) inspect the Load of any Waste Hauler's vehicle or require that any compartment of the vehicle or any container in or on the vehicle be opened;

(c) collect samples, take photographs, make audio or video recordings, make measurements, and document observations related to the storage, pick up, transport or delivery of Solid Waste; and

(d) examine waste management practices, operational procedures, waste handling protocols and recordkeeping systems, including an onboard vehicle computer system's Vehicle Operating Log.

8.12 No person shall obstruct or hinder the Compliance Manager or a Compliance Officer who is carrying out their duties or functions under this Bylaw.

~~8.68.13~~ No person shall misrepresent the class or quantities of Municipal Solid Waste collected from generators picked up from, transported or delivered for Generators within the geographic area of the GVS&DD.

~~8.7~~ No person shall fail to remit the Generator Levy in accordance with section 8.2 of this bylaw.

8.14 Any Waste Hauler who omits, fails or refuses to collect, on behalf of the GVS&DD, the Generator Levy from the Generators of Municipal Solid Waste in accordance with the requirements of section 8.1 or any Waste Hauler who omits, fails or refuses to remit the Generator Levy in accordance with sections 8.2(c) and 8.3 must pay the GVS&DD for the amount of the Generator Levy that it omitted, failed or refused to collect or remit.

8.15 If a Waste Hauler omits, fails or refuses to collect, on behalf of the GVS&DD, the Generator Levy from the Generators of Municipal Solid Waste in accordance with the requirements of section 8.1, or if the Waste Hauler omits, fails or refuses to submit any records when required under section 8.6, the GVS&DD may, for a given Quarter, estimate the class(es) or quantities of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler within the geographic area of the GVS&DD, based upon the following:

(a) historical quantities of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler; and

(b) other data or information available to the GVS&DD.

8.16 An estimate of a class or quantity of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler in accordance with section 8.15 is, for the purpose of calculating the Generator Levy in accordance with this Bylaw, presumed to be the actual class or quantity of Municipal Solid Waste picked up, transported or delivered by the Waste Hauler, unless within 30 days the Waste Hauler submits to the GVS&DD additional data or information in an electronic or other format acceptable to the GVS&DD that is sufficient to rebut the presumption.

*Replaced by Bylaw 312, 2018*

#### ~~8.09.0~~ Generator Levy Rebate

*Replaced by Bylaw 350, 2021*

9.1 A Qualified Private Facility may apply to the GVS&DD for a rebate of the Generator Levy in respect of residual waste from the Qualified Private Facility delivered to a Solid Waste Facility or a Vancouver Disposal Site, where:

- (a) the residual waste is from the Qualified Private Facility only and is not mixed with ~~waste~~Solid Waste from other sources;
- (b) the Qualified Private Facility applies for the rebate within 30 days of the end of the calendar month in which the residual waste was delivered to a Solid Waste Facility or a Vancouver Disposal Site;
- (c) all Tipping Fees and Surcharges payable under this Bylaw for residual waste from the Qualified Private Facility have been paid for the calendar month;
- (d) the Qualified Private Facility provides documentation satisfactory to the Manager identifying:
  - (i) for each ~~load~~Load of Mixed ~~Municipal~~ Solid Waste received at the Qualified Private Facility originating within the geographic area of the GVS&DD, the date, time of delivery, name of the Waste Hauler, and the weight of the ~~load~~Load; and
  - (ii) for each ~~load~~Load of material leaving the Qualified Private Facility, the quantity, material type, date, and destination.

9.2 A Qualified Private Facility is not entitled to a rebate of the Generator Levy under Section 9.1 ~~of this Bylaw~~ if any of the conditions set out in that section are not met.

*Replaced by Bylaw 350, 2021*

9.3 Subject to ~~Section~~section 9.2, the GVS&DD will rebate to the Qualified Private Facility an amount equal to the Generator Levy paid for each tonne of residual waste delivered to either a Solid Waste Facility or a Vancouver Disposal Site in the immediately preceding calendar month, up to a maximum of 75% of the total Generator Levy received by the GVS&DD for Mixed ~~Municipal~~ Solid Waste delivered to the Qualified Private Facility in the immediately preceding calendar month.

*Section 10 renumbered by Bylaw 312, 2018.*

## 10.0 Offences

10.1. Any person who contravenes a provision of this Bylaw commits an offence and is liable on conviction to a fine not exceeding \$200,000.

10.2. Where there is an offence that continues for more than one day, separate fines, each not exceeding the maximum fine for the offence, may be imposed for each day or part thereof in respect of which the offence occurs or continues.

10.3. The Compliance Manager or a Compliance Officer is authorized to enforce this Bylaw where a person is alleged to have committed an offence and for that purpose may:

(a) take steps to ascertain whether the provisions of this Bylaw are being observed;

(b) initiate a proceeding; and

(c) determine an appropriate amount of the fine that the GVS&DD may seek to impose in the proceeding.

10.4. Nothing in this Bylaw limits the GVS&DD from utilizing any other remedy that would otherwise be available at law.

#### 10.011.0 Interpretation

10.111.1 If a portion of this Bylaw is held to be invalid it shall be severed and the remainder of the Bylaw shall remain in effect.

*Replaced by Bylaw 350, 2021*

10.211.2 In this Bylaw, the word "person" includes natural persons, as well as businesses, households, strata corporations, institutions, non-profit societies, and corporations.

11.3 Unless otherwise specified, all references to sections or schedules are to sections or schedules of or to this Bylaw.

11.4 In this Bylaw, words importing the singular include the plural and vice versa.

10.311.5 Schedules "A", "B", "C", "D", "E", and "F" are attached to and form part of this Bylaw.

*Section 11 renumbered by Bylaw 312, 2018*

#### **1112.0 Effective Date**

1112.1 This Bylaw comes into force and takes effect ~~January 1, 2018~~XXXX.

## SCHEDULE "A"

### SOLID WASTE FACILITIES

- Central Surrey Recycling and Waste Centre located at 6711 —154 Street, Surrey
- Langley Recycling and Waste Centre located at 1070 272 Street, Langley
- Maple Ridge Recycling and Waste Centre located at 10092 236 Street, Maple Ridge
- North Shore Recycling and Waste Centre located at 30 Riverside Drive, North Vancouver
- North Surrey Recycling and Waste Centre located at 9770 192 Street, Surrey
- United Boulevard Recycling and Waste Centre located at 995 United Boulevard, Coquitlam
- Waste-to-Energy Facility located at 5150 Riverbend Drive, Burnaby

**SCHEDULE “B”**

**Table 1-Tipping Fees for ~~Garbage, Construction and Demolition Processing Residual~~ Solid Waste and ~~Special Handle Waste~~  
(including the Generator Levy and the Disposal Rate)**

	Net Weight	North Shore Recycling and Waste Centre	North Surrey Recycling and Waste Centre	United Boulevard Recycling and Waste Centre	Central Surrey Recycling and Waste Centre	Maple Ridge Recycling and Waste Centre	Langley Recycling and Waste Centre	Waste-to-Energy Facility
<b>Municipal Garbage</b>	All Loads	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne	\$127/tonne
<b>All <del>Garbage</del> <u>Solid</u> Waste other than Municipal Garbage, <u>Construction and Demolition Processing Residual</u> <u>Waste, and Special Handle Waste</u></b>	0 to 0.99 <u>metric</u> tonnes	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>	\$161/tonne <sup>1</sup>
	1.0 to 7.99 <u>metric</u> tonnes	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>	\$139/tonne <sup>2</sup>
	8.0 <u>metric</u> tonnes or more	\$113/tonne	\$113/tonne	\$113/tonne	Not accepted.	Not accepted.	Not accepted.	\$113/tonne
<b>Construction and Demolition Processing Residual Waste</b>	All Loads	\$150/tonne	\$150/tonne	\$150/tonne	Not accepted.	Not accepted.	Not accepted.	\$150/tonne
<b>Minimum Tipping Fee for <del>Garbage and Construction and Demolition Processing Residual</del> <u>Solid</u> Waste <del>(as applicable)</del></b>	Minimum Tipping Fee during Peak Hours	\$20/Load	\$20/Load	\$20/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load
	Minimum Tipping Fee outside of Peak Hours	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load
<b>Special Handle Waste</b>	All Loads	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	\$268/tonne \$50 minimum.

<sup>1</sup>To a maximum of \$139 per Load.



<sup>2</sup>To a maximum of \$904 per Load.

Replaced by Bylaw 354, 2022, effective June 1, 2022

**Table 2 – Transaction Fee**

Each Load of <del>Garbage or Construction and Demolition Processing Residual Waste</del> Solid Waste disposed of at a Solid Waste Facility, <del>each Load of Special Handle Waste disposed of at the Waste-to-Energy Facility</del> , and each Load of Gypsum dropped off at a designated Recycling Area	\$5/Load
---	----------

**Table 3 – Recycling Fees for ~~materials~~Recyclable Material dropped off in designated Recycling Areas**

	North Shore Recycling and Waste Centre	North Surrey Recycling and Waste Centre	United Boulevard Recycling and Waste Centre	Central Surrey Recycling and Waste Centre	Maple Ridge Recycling and Waste Centre	Langley Recycling and Waste Centre	Waste-to-Energy Facility
<b>Municipal Organics</b>	\$110/tonne, \$10 minimum	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.
<b>Source-Separated Organic Waste</b>	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	Not accepted.
<b>Green Waste</b>	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	Not accepted.
<b>Clean Wood</b>	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum.	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum	\$107/tonne, \$10 minimum.	Not accepted.
<b>Gypsum – New: less than ½ tonne</b>	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	\$150/tonne, \$10 minimum	Not accepted.
<b>Gypsum – Used: less than ½ tonne</b>	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	\$200/tonne, \$10 minimum	Not accepted.
<b>Mattresses</b>	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	\$15 per Mattress	Not accepted.

**Table 4 - Surcharges**

Loads containing <del>Banned</del> Recyclable Materials other than Food Waste or Expanded Polystyrene Packaging that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load (section 5. <del>79</del> )	50% of the applicable Tipping Fee
Loads containing Contaminated Recyclable Paper that exceeds either 5% of the total weight of the Load or 5% of the total volume of the Load (section 5. <del>810</del> )	50% of the applicable Tipping Fee
Loads containing Expanded Polystyrene Packaging that exceeds either 20% of the total weight of the Load or 20% of the total volume of the Load (section 5. <del>911</del> )	100% of the applicable Tipping Fee
Loads containing Food Waste that exceeds either 25% of the total weight of the Load or 25% of the total volume of the Load (section 5. <del>1012</del> )	50% of the applicable Tipping Fee
Loads of Municipal Organics or Source-Separated Organic Waste containing more than 0.05% (by wet weight) of any other type of <del>Refuse</del> Solid Waste (section 5. <del>1113</del> )	\$50 per Load
Loads containing any Hazardous and Operational Impact Materials or Product Stewardship Materials (section 5. <del>1214</del> )	\$69 per Load plus any remediation or clean-up costs
Unsecured Loads (section 5. <del>1315</del> )	50% of the applicable Tipping Fee to a maximum of \$50.00

SCHEDULE "C"

**HAZARDOUS AND OPERATIONAL IMPACT MATERIALS**

1. Agricultural ~~Waste~~By-Product;
2. Automobile parts and bodies;
3. ~~Refuse~~Solid Waste that is on fire, smoldering, odourous, dusty, flammable or explosive;
4. Hazardous Waste as defined in the *Hazardous Waste Regulation*, B.C. Reg. 63/88;
5. Propane tanks;
6. Liquids or sludge;
7. Coated or uncoated wire, hosing, rope or cable exceeding 1.0 metre in length;
8. Dead animals;
9. Inert fill material including soil, sod, gravel, concrete and asphalt exceeding 0.5 cubic metres per load.
10. Excrement, other than amounts of pet excrement that are double bagged and discarded with Municipal Solid Waste and that do not exceed either 5% of the total weight of the Load or 5% of the total volume of the Load;
11. Personal Hygiene Products where the Personal Hygiene Products make up more than 10% of the Load unless the Personal Hygiene Products are double bagged in sealed plastic bags that are sufficiently durable to resist leaking or breaking during collection and disposal;
12. Barrels, drums, pails or other large (205 litre or greater) liquid containers;
13. Any single object that:
  - (a) weighs more than 100 kilograms; or
  - (b) exceeds 1.2 metres in width or 2.5 metres in length, except at the Waste-to-Energy Facility where a single object must not exceed 1.0 metre in length.
14. Gypsum;
15. Mattresses;
16. Railroad ties or creosote treated wood;
17. Toxic Plants;

18. RefuseSolid Waste that would cause undue risk of injury or occupational disease to any person at the Solid Waste Facility or that would otherwise contravene the *Occupational Health and Safety Regulation* B.C. Reg. 296/97 enacted pursuant to the *Workers Compensation Act*, as amended or replaced from time to time; and
19. Any other RefuseSolid Waste that the Manager considers unsuitable for handling at a Solid Waste Facility.

SCHEDULE "D"

**BANNED RECYCLABLE MATERIALS**

1. Beverage containers identified in "Schedule 1-Beverage Container Product Category" to the *Recycling Regulation*;
2. Containers other than beverage containers made of:
  - (a) metal;
  - (b) glass;
  - (c) polyethylene terephthalate (number 1 PET plastic), high density polyethylene (number 2 H D P E plastic), low density polyethylene (number 4 L D P E plastic) or polypropylene (number 5 PP); or
  - (d) composite materials to create rigid packaging consisting of paper and polyethylene (gable top cartons, frozen food boxes, ice cream cartons and microwaveable dinner cartons) or paper, polyethylene and aluminum (aseptic cartons);
3. Corrugated Cardboard;
4. Recyclable Paper;
5. Green Waste;
6. Food Waste;
7. Clean Wood; and
8. Expanded Polystyrene Packaging.

SCHEDULE "E"

**PRODUCT STEWARDSHIP MATERIALS**

1. The following materials pursuant to Schedule 2 – Residual Product Category to the *Recycling Regulation*:
  - (a) Solvents and flammable liquids;
  - (b) Pesticides;
  - (c) Gasoline;
  - (d) Pharmaceutical products and medications;
  - (e) Oil, oil filters and oil containers;
  - (f) Lubricating oils and lubricating oil containers;
  - (g) Paint and paint containers;
  - (h) Lead-acid batteries;
  - (i) Antifreeze and antifreeze containers;
2. Electronics and electrical products, including metal household and commercial appliance, as identified in Schedule 3 – Electronics and Electrical Products Category to the *Recycling Regulation*, but excluding electronic devices used to observe the movement of waste within the region;
3. Tires pursuant to Schedule 4 - Tire Product Category to the *Recycling Regulation*.



SCHEDULE "F"

**CUSTOMER CHARGE ACCOUNTS**

1. Any person wishing to establish a customer charge account with the GVS&DD must complete the GVS&DD's application for credit ("**Application for Credit**").
2. The Treasury Manager may approve the Application for Credit on behalf of ~~the~~ GVS&DD and establish a customer charge account for a person for up to \$250,000.
3. The Division Manager of Financial Planning and Processes may approve the Application for Credit on behalf of ~~the~~ GVS&DD and establish a customer charge account for a person for amounts up to \$500,000.
4. The Chief Financial Officer may approve the Application for Credit on behalf of ~~the~~ GVS&DD and establish a customer charge account for a person for amounts up to \$2,000,000.
5. If the GVS&DD approves a person's Application for Credit and establishes a customer charge account, then:
  - (a) the person, or a Waste Hauler authorized by the person, may leave the Solid Waste Facility before paying the applicable Tipping Fees, Transaction Fee, Recycling Fees and Surcharges;  
and
  - (b) the GVS&DD will generate invoices for Tipping Fees, Transaction Fees, Recycling Fees and Surcharges on a monthly basis for up to the established customer charge account limit, which invoices are payable within 35 days.
6. Where a person fails or refuses to pay an invoice for Tipping Fees, Transaction Fees, Recycling Fees and Surcharges within 35 days, then the GVS&DD may rescind their customer charge account and the person must:
  - (a) pay interest at the rate of 1.25% per month (15% per year) compounded monthly and calculated daily on all amounts overdue, including all overdue interest, from the date the charge was due to the date of payment; and
  - (b) not dispose of any ~~Municipal~~ Solid Waste at a Solid Waste Facility or drop off Recyclable Material in a designated Recycling Area until any outstanding invoice has been paid in full.



North Shore Recycling and Waste Centre

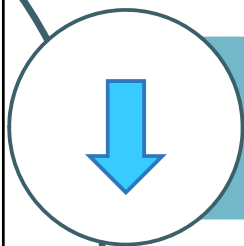
# Draft Tipping Fee Bylaw Updates

Paul Henderson, P.Eng.  
General Manager, Solid Waste Services

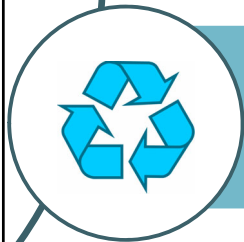
Zero Waste Committee, July 13, 2023  
Orbit Link



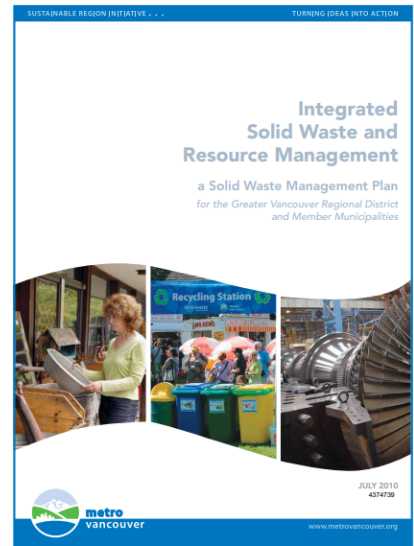
## WASTE REDUCTION AND RECYCLING ACHIEVEMENTS



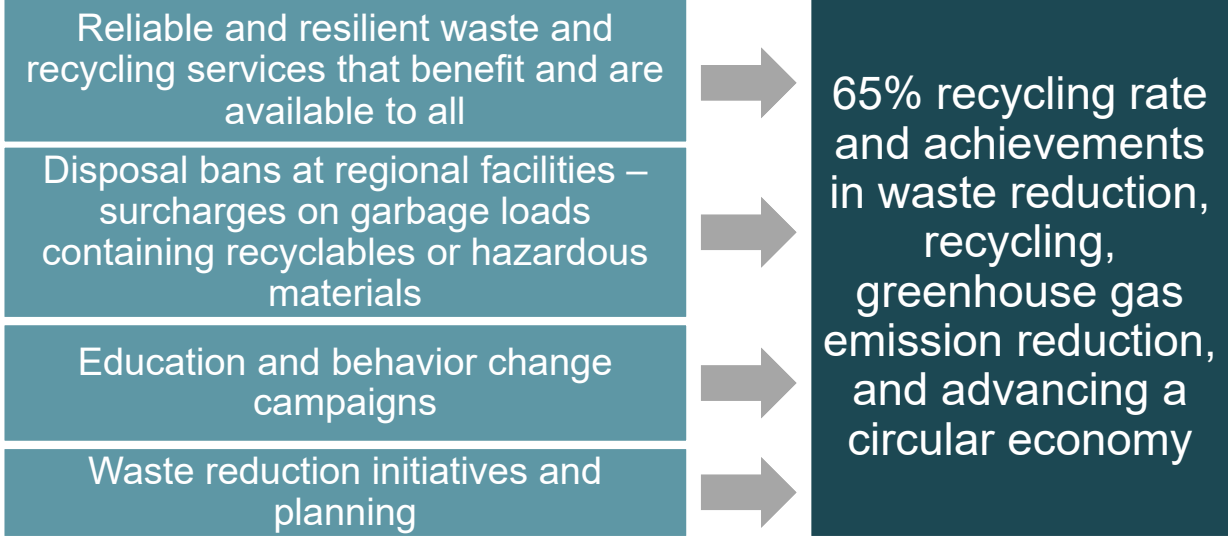
**Goal: 10% Reduction Waste Generation (Achieved 11%)**  
Generation = Recycled + Disposed



**Goal: 80% Recycling Rate (Achieved 65%)**  
Recycling Rate = Recycled / Generated



# REGIONAL SOLID WASTE SYSTEM



## Regional Solid Waste Facilities



## BENCHMARK OF UTILITY COSTS - 2023

Solid Waste (\$ CAD / tonne)

Solid Waste	
Metro Vancouver (average tipping fee)	\$136
Toronto	\$171
Seattle	\$218
San Francisco	\$291

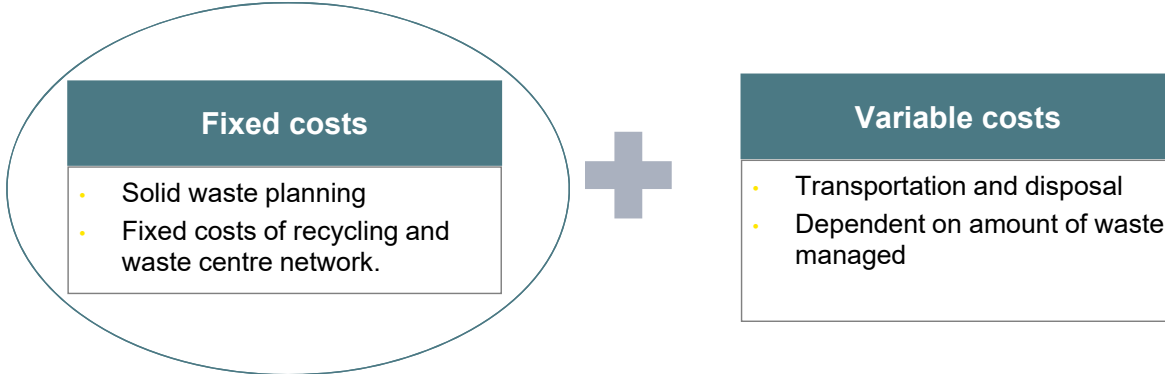
## TIPPING FEE AND SOLID WASTE DISPOSAL REGULATION

Bylaw No. 306, 2017

- Establishes fees for garbage and recycling at Metro Vancouver and City of Vancouver solid waste facilities (regional facilities)
- Identifies recyclable and hazardous materials banned from disposal at regional facilities
- Implements the generator levy

# TIPPING FEE COMPONENTS

## Generator Levy



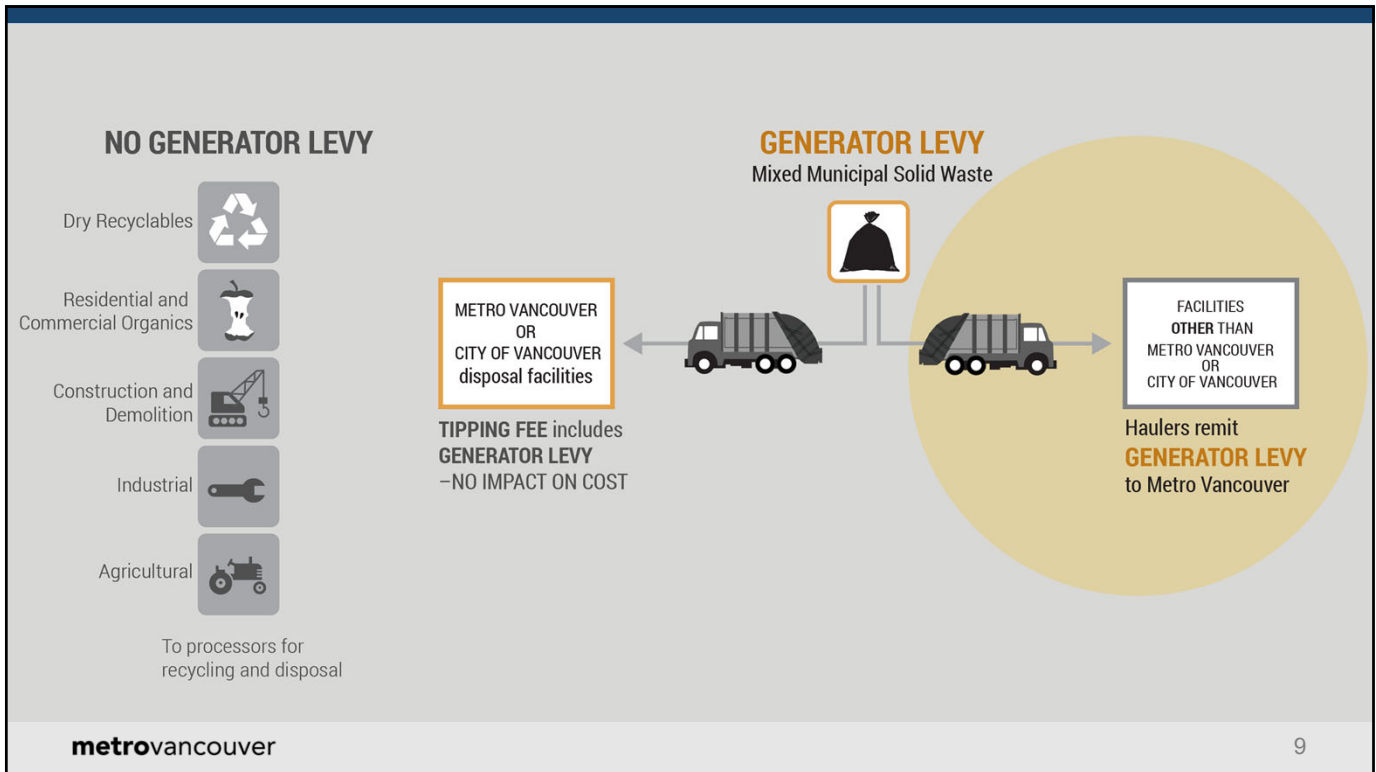
# GENERATOR LEVY - \$59 / TONNE

Waste delivered to regional facilities

Generator levy included in the tipping fee

Waste delivered to other facilities

Generator levy must be remitted to Metro Vancouver



## GENERATOR LEVY BENEFITS

- All waste generators contribute to cost of solid waste system
- Disposal bans can be applied
- Reliable data collection
- Competition among waste haulers

## DRAFT TIPPING FEE BYLAW UPDATES

- Simplify and improve consistency of definitions
- Strengthen record management requirements
- Establish maximum fine
- Enhance inspection powers

## ENGAGEMENT



Engage with the solid waste and recycling industry to:

Ensure updated definitions are complete and logical

Ensure enhanced record keeping requirements are practical for the waste and recycling industry

Ensure exemptions are clear and appropriate

Increase awareness of generator levy requirements

## NEXT STEPS

- Engage with solid waste and recycling industry
- Provide engagement feedback to Zero Waste Committee
- Bring forward proposed updates to Tipping Fee Bylaw for Board's consideration



A scenic view of a city skyline at sunset, with a thick layer of fog or low clouds in the foreground. The sky is a mix of orange, red, and yellow. The city lights are visible through the fog. In the bottom right corner, there is a logo consisting of two overlapping white hexagons with the text "TOGETHER WE MAKE OUR REGION STRONG" inside. At the bottom left, the text "Questions?" is written in white. At the bottom right, the "metrovancover" logo is displayed in white. The number "14" is in the bottom right corner.

Questions?



To: Zero Waste Committee

From: Allen Jensen, Senior Project Engineer, Solid Waste Services

Date: July 7, 2023

Meeting Date: July 13, 2023

Subject: **Smart Waste Program**

---

### **RECOMMENDATION**

That the Zero Waste Committee receive for information the report dated July 7, 2023, titled “Smart Waste Program” for information.

---

### **EXECUTIVE SUMMARY**

Metro Vancouver is initiating a smart waste program that involves the use of location-based electronic devices to observe the movement of garbage around the region. Gathering and analyzing data on the movement of garbage helps inform waste management trends and assists in solid waste system planning. The information will also help confirm compliance with the generator levy provisions of the *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017*, as amended (Tipping Fee Bylaw). Similar programs have been implemented by other organizations to understand the movement of waste both within Canada and internationally. Environmental, health and safety and privacy impact assessments were conducted as part of planning for implementation of the smart waste program. Those analyses confirmed the use of the devices has the lowest environmental impact of observation methodologies reviewed, creates negligible health and safety risks, and does not involve collection of any personal information.

### **PURPOSE**

To update the Zero Waste Committee on a new smart waste program that uses electronic location-based data collection devices to better understand the movement of garbage around the region.

### **BACKGROUND**

Metro Vancouver is responsible for waste reduction and recycling planning for the region, and the operation of a series of solid waste facilities. Understanding the movement of garbage in the region will assist with solid waste planning, help validate waste system data, and identify receiving facilities.

### **SMART WASTE PROGRAM**

Jurisdictions around the world are advancing smart cities: the collection and analysis of data interactions with, and usage of, public infrastructure in order to improve service delivery and user experience.

Metro Vancouver is implementing a new smart waste program that uses location based electronic devices to better understand the movement of garbage around the region. Location based devices are deposited in publicly accessible garbage containers, and signals from the devices show the movement of the devices following collection of the garbage. Data acquired through the smart waste program will be helpful in understanding the generation location of garbage, and subsequent choice of disposal facility. Gathering and analyzing data on the movement of garbage helps inform waste management trends and assists in solid waste system planning. The data will also be helpful in confirming compliance with the generator levy provisions of the Tipping Fee Bylaw.

#### **Location Based Devices Use by Other Organizations**

Location based devices have been used to observe the movement of waste and recyclables in a number of communities. Two-thousand devices were deployed in Seattle in 2009 to understand the fate of garbage and recycling materials in that city. The Basel Action Network used location-based devices to observe the movement of waste electronics around the world in 2014. In 2019, CBC's Marketplace used location based devices to observe the fate of bales of film plastic in the Vancouver area. In 2019, media in Cleveland used location based devices to observe the fate of recyclables deposited in public recycling receptacles.

#### **Analysis of Environmental, Health and Safety Impacts**

Several potential methods for observing the movement of garbage were investigated with two identified as practical solutions: location-based data collection and visual observation of garbage collection trucks. These two methods were analyzed to evaluate potential environmental, health and safety impacts. Of the two methods, location-based data collection was found to have the lowest environmental impact, and negligible health and safety risks.

The location-based devices use low-toxicity alkaline batteries. The use of 200 location based devices in a year would result in about 6.6 kg of alkaline batteries being disposed of in the waste stream, representing an insignificant fraction of the estimated total household batteries disposed in the region.

#### **Privacy Impact Assessment**

A privacy impact assessment determined that the location-based data collection method meets the requirements under the *Freedom of Information and Protection of Privacy Act*. The devices collect only location data and no personal information.

#### **ALTERNATIVES**

This is an information report. No alternatives are presented.

#### **FINANCIAL IMPLICATIONS**

The cost of using the location based devices is included in the annual Solid Waste Services budget as well as the five-year financial plan. The devices provide a cost effective method of observing the movement of garbage around the region.

**CONCLUSION**

The smart waste program implemented by a solid waste electronic location-based data collection method will gather precise data on the movement of garbage in the region, help inform waste management trends and assist in solid waste system planning.

The solid waste electronic location-based data collection method is an effective and efficient data collection strategy with low environmental impacts, negligible health and safety risks and does not does not involve the collection of any personal information.

60357298

To: Zero Waste Committee

From: Brandon Ho, Senior Project Engineer, Solid Waste Services

Date: July 6, 2023 Meeting Date: July 13, 2023

Subject: **2022 Disposal Ban Program Update**

---

### **RECOMMENDATION**

That the Zero Waste Committee receive for information the report dated July 6, 2023, titled “2022 Disposal Ban Program Update”.

---

### **EXECUTIVE SUMMARY**

The disposal ban program is a key tool for Metro Vancouver to encourage waste reduction and recycling. Under the program, garbage loads are visually inspected for banned materials and surcharges are applied if banned materials are present. Approximately 24% of the garbage loads received at Metro Vancouver and City of Vancouver solid waste facilities were inspected in 2022, and of those loads approximately 12% contained banned materials and 1.8% received surcharge notices. Inspectors were able to work with customers and provide alternative recycling options to prevent more than 20,000 loads containing banned materials from being disposed as garbage. Electronic waste, corrugated cardboard, and food waste were the top three banned materials identified.

Metro Vancouver has contracted with a consultant to review the disposal ban program with the goal of identifying any opportunities for improvement. Results of the review and subsequent engagement feedback on any improvement opportunities will be brought back to the Zero Waste Committee.

### **PURPOSE**

The purpose of this report is to provide the annual update to the Zero Waste Committee on the 2022 results of the Metro Vancouver disposal ban program.

### **BACKGROUND**

Disposal ban program results are reported annually as outlined in the Zero Waste Committee work plan. The program helps keep readily recyclable materials and materials that pose operational risks and are hazardous out of the waste stream.

### **2022 DISPOSAL BAN PROGRAM RESULTS**

The *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017*, as amended (Tipping Fee Bylaw) specifies a list of over 40 banned materials restricted from disposal (Attachment 1). The Disposal ban program is a key tool for Metro Vancouver to encourage waste reduction and recycling. Garbage loads received at Metro Vancouver and City of Vancouver solid waste facilities (regional solid waste facilities) are visually

inspected for banned materials, and surcharges are applied if banned materials are present in quantities exceeding the thresholds defined in the Tipping Fee Bylaw. Metro Vancouver reports annually on program results including inspection and surcharge rates, and surcharges by material and customer type.

**Disposal Ban Program Results**

In 2022, the number of garbage loads received at regional solid waste facilities was 2.5% lower than in 2021. This is primarily due to a decrease in loads received at the Vancouver Landfill and Vancouver South Transfer Station. Table 1 provides a multi-year comparison of disposal ban program results.

Disposal ban surcharges for organics were temporarily waived between October 15 and November 28, 2022 due to the reduction in organics processing capacity serving the region. The closure of an organics processing facility resulted in temporary disruption to organics processing systems in the region.

In 2022, 194,588 garbage loads were inspected (24% inspection rate), and 23,623 (or approximately 12%) of inspected loads contained banned materials. Inspectors were able to work with customers and provide alternative recycling options to prevent 20,161 loads (re-loads) containing banned materials from being disposed as garbage.

**Table 1: Inspection Statistics for Regional Solid Waste Facilities**

Year	Garbage Loads	Loads Inspected	Inspection Rate	Re-Loads	Surcharge Notices	Surcharge Rate
2020	782,333	221,875	28%	20,398	6,642	3.0%
2021	822,060	194,329	24%	13,677	3,104	1.6%
2022	800,855	194,588	24%	20,161	3,462	1.8%

**Results by Material Type**

Table 2 summarizes the distribution of surcharged loads by banned material type. Electronic waste (including vacuums, kitchen appliances, home entertainment systems, computers, and other household electronic items), represented 32% of surcharged loads, up from 26% in 2021. Corrugated cardboard accounted for 21% of the surcharge notices in 2021, down from 25% in 2021. Food waste accounted for 8% of the surcharge notices in 2022, up from 5% in 2021. Wire, hosing, rope, or cable longer than one metre accounted for 2% of the surcharge notices in 2022. In previous years this category was less than 1% and was included in the “other banned materials” category.

**Table 2: Summary of Materials Contained in Surcharged Loads at Regional Solid Waste Facilities**

Material	2020	2021	2022
Electronic Waste	35%	26%	32%
Cardboard	20%	25%	21%
Food Waste	4%	5%	8%
Mattresses	9%	9%	7%
Gypsum	3%	4%	6%
Other Banned Materials	5%	5%	5%
Large Objects	10%	11%	4%
Mixed Recyclables (includes paper and containers)	<1%	1%	3%
Paint (Includes empty containers)	4%	3%	3%
Tires	3%	3%	3%
Clean Wood	3%	3%	2%
Expanded Polystyrene Packaging	2%	3%	2%
Wire, Hosing, Rope or Cable	N/A	N/A	2%
Green Waste	< 1%	1%	1%
Oil (Includes containers and filters)	< 1%	1%	1%

**Surcharges by Customer Type**

Table 3 summarizes the number of inspections and surcharge notices by customer type in 2022. The surcharge rate for commercial loads was higher than other customer types due to the volumes, types of materials, and how they are collected. Residential cash and other non-account customers arriving in small vehicles normally unload materials manually and are able to separate and recycle banned materials more easily, while banned items in commercial loads cannot typically be reloaded into garbage trucks for safety and operational reasons.

**Table 3: Summary of Surcharges by Customer Type for 2022**

Customer Type	Inspections	Surcharge Notices	Surcharge Rate
Commercial	42,134	2,848	7%
Municipal	8,644	197	2%
Non-account	143,810	417	0.3%
<b>Totals</b>	194,588	3,462	1.8%

**Dispute Resolution**

Customers may dispute a surcharge within 30 days of issue by completing a dispute form. Metro Vancouver received 21 surcharge disputes in 2022, up from 15 in 2021. Thirteen surcharge notices were rescinded as summarized in Table 4.

**Table 4: Surcharge Dispute Summary**

Year	Surcharge Disputes Received	Surcharge Notices Rescinded
2020	26	10
2021	15	10
2022	21	13

### **Hauler Surcharge Information**

The 2022 surcharge amount and surcharge rate for each hauler with total surcharges exceeding \$1,000 is shown in Attachment 2 (surcharges applied at Metro Vancouver facilities only). The hauler surcharge rate is the number of surcharge notices divided by the number of inspections for each hauler. In 2022 several companies had increases in their surcharge rates compared to previous years. In some cases, companies with excellent recycling programs have high surcharge rates. Some of these companies process recyclables, and material delivered for disposal may still have some banned materials. Changes to the disposal ban program model are being considered to allow exemptions for companies that can demonstrate they have implemented all practical measures to prevent recyclables being disposed of in the waste stream.

### **Disposal Ban Program Review**

With Metro Vancouver's ongoing work on the solid waste management plan update, a consulting review of the disposal ban program is underway. The report is being finalized and results of the consulting review will be communicated to the Zero Waste Committee. Engagement on the report findings is underway with the disposal ban contractor, member jurisdiction staff, and the Solid Waste and Recycling Industry Advisory Committee and Solid Waste Management Plan Public/Technical Advisory Committee. Any improvements and recommendations to the program can be implemented to further enhance the program to further encourage waste reduction and recycling.

### **ALTERNATIVES**

This is an information report. No alternatives are presented.

### **FINANCIAL IMPLICATIONS**

In 2022 surcharge revenues were \$456,744 with \$432,421 from Metro Vancouver solid waste facilities and \$24,323 from City of Vancouver solid waste facilities as shown in Attachment 3. Total program expenditures for regional solid waste facilities in 2022 were \$1,129,468. Program expenditures in 2022 were greater than 2021 as inspectors are fully adjusted to the program requirements and schedule.

### **CONCLUSION**

The disposal ban program helps keep readily recyclable materials and materials that pose operational risks and other hazards out of the waste stream. In 2022, 194,588 loads were inspected, 23,623 loads were found to contain banned materials, and 3,462 surcharge notices were issued. The disposal ban program remains an effective tool to encourage waste reduction and diversion.

### **Attachments**

1. 2022 Banned Materials
2. 2022 Solid Waste Surcharge Information at Metro Vancouver Facilities
3. 2022 Solid Waste Surcharge Summary

58076640

**2022 Banned Materials**

<b>Banned Hazardous and Operational Materials</b> (\$66 surcharge on any single item plus the costs of remediation and clean-up)	
• Agricultural Waste	• Hazardous Waste
• Automobile Parts	• Inert Fill Materials
• Barrels or Drums (205 L or greater)	• Liquids or Sludge
• Creosote Treated Wood	• Mattresses
• Dead Animals	• Oversize Objects
• Dusty or Odourous	• Personal Hygiene Products over 10% of the load
• Excrement	• Propane Tanks
• Flammable Materials	• Toxic Plants
• Gypsum	• Wire, Hosing, Rope or Cable longer than 1 m

<b>Banned Recyclable Materials</b> (50% surcharge on Items above the threshold)
5% threshold on any combination of the following: <ul style="list-style-type: none"> <li>• Beverage containers</li> <li>• Other recyclable plastic, glass, metal, and composite material containers</li> <li>• Corrugated cardboard</li> <li>• Recyclable paper</li> <li>• Green waste</li> <li>• Clean Wood</li> </ul>
25% threshold on food waste

<b>Banned Recyclable Materials</b> (100% surcharge on Items above the threshold)
20% threshold on expanded polystyrene packaging

<b>Banned Product Stewardship Materials</b> (\$66 surcharge on any single item)	
• Antifreeze and Containers	• Paint and Paint Containers
• Electronics and Electrical Products	• Pesticides
• Gasoline	• Pharmaceutical Products and Medications
• Lead-Acid Batteries	• Solvents and Flammable Liquids
• Lubricating Oil and Containers	• Tires
• Oil, Oil Filters, Oil Containers	



## ATTACHMENT 2

<b>2022 Solid Waste Surcharge Information Metro Vancouver Facilities</b>		
Hauler (MV Facilities)	Surcharge Amount*	Hauler Surcharge Rate**
Canada Minibins Ltd.	\$ 9,637	10%
City of Burnaby	\$ 8,717	4%
City of New Westminster	\$ 2,829	3%
City of Surrey	\$ 5,880	6%
District of North Vancouver	\$ 2,924	5%
Four Season Roofing & Disposal Ltd.	\$ 1,746	38%
GFL Environmental	\$ 61,950	7%
Halton Recycling Ltd.	\$ 8,445	13%
Maple Leaf Disposal Ltd.	\$ 28,026	11%
Metro Disposal	\$ 1,846	2%
Mini-Load Disposal	\$ 1,271	7%
North Star Waste Management	\$ 1,363	8%
NSD Disposal Ltd.	\$ 2,747	9%
Residential (RDO)	\$ 25,896	0.3%
Revolution Resource Recovery Inc.	\$ 4,010	12%
RJ Disposal Ltd.	\$ 1,134	5%
SF Disposal Queen	\$ 4,176	14%
Smithrite Disposal Ltd.	\$ 1,092	13%
Super Save Disposal Inc.	\$ 44,304	10%
Urban Impact Recycling Ltd.	\$ 30,127	16%
Vancouver Coastal Health	\$ 10,229	30%
Waste Connections of Canada	\$ 99,034	12%
Waste Control Services Inc.	\$ 19,511	7%
Waste Management of Canada Corporation	\$ 42,934	13%

\* Does not include haulers with surcharge amounts less than \$1,000.

\*\* Hauler surcharge rate is equal to the number of surcharges divided by the number of inspections for each hauler.

**ATTACHMENT 3**

<b>2022 Solid Waste Surcharge Summary</b>	<b>Surcharge Amount</b>
Metro Vancouver Facilities (\$432,421)	
- Commercial	\$383,335
- Municipal	\$23,190
- Cash Customers	\$25,896
City of Vancouver Facilities	\$24,323
<b>Total</b>	<b>\$456,744</b>

To: Zero Waste Committee

From: Paul Henderson, General Manager, Solid Waste Services

Date: July 6, 2023 Meeting Date: July 13, 2023

Subject: **Manager's Report**

---

## **RECOMMENDATION**

That the Zero Waste Committee receive for information the report dated July 6, 2023, titled "Manager's Report".

---

### **Procurement Updates**

#### *Solid Waste Management Plan Update*

Metro Vancouver has retained a team of Morrison Hershfield, Delaney and Sonnevara to provide consulting support for the solid waste management plan update under a two year contract with the option to extend an additional 2 years. The consulting team is experienced in assisting regional districts prepare solid waste management plans and will help Metro Vancouver complete supporting technical research, develop and implement engagement, and work towards the submission of the draft plan to the Minister of Environment and Climate Change Strategy.

#### *North Surrey and Langley Recycling Depot Development*

Metro Vancouver has retained Morrison Hershfield to develop designs for recycling depots at the North Surrey and Langley Recycling and Waste Centres. Permitting and design work will commence this year with construction to take place in 2024-2025. This will provide consistent recycling services ahead of the scales at all the Metro Vancouver recycling and waste centres.

#### *Zero Waste for Schools' Pilot*

Metro Vancouver recently contracted HSR Zero Waste to complete a pilot project involving an assessment of waste management practices at four schools in the Coquitlam and North Vancouver school districts (two schools in each). The pilot includes a facility assessment and waste composition study to establish a post-Covid baseline of waste prevention and recycling performance. The project is scheduled to begin in October 2023, and the results will be shared in 2024. Pilot findings will help inform education materials to support waste prevention and recycling in schools throughout the region and align with the ongoing work being done by Metro Vancouver's School and Youth Leadership program.

### **City of Surrey Disposal Days**

The City of Surrey worked with Metro Vancouver to provide free and discounted drop-off for residents at both Central Surrey and North Surrey recycling and waste centres from May 12-30. Surrey residents dropped off approximately 9,000 loads of free recyclables, garbage, yard trimmings, gypsum, and mattresses. Drop-off costs were funded by the City of Surrey. Metro Vancouver is working with City of Surrey to continue to ensure excellent service associated with

these disposal events, and compare the benefits of the use of Metro Vancouver facilities for these drop-off events to stand-alone municipal events.

### **Residential Used Gypsum Disposal Program – Bag Availability**

At its June 15, 2023 meeting, the Zero Waste Committee requested more information about availability of used gypsum disposal bags in Metro Vancouver. Metro Vancouver's residential used gypsum disposal program provides residents with an option to dispose of small quantities of used gypsum at Metro Vancouver recycling and waste centres. Residents can drop off up to 10 bags of 10 kg of used gypsum per trip, up to five times per year. The used gypsum must be double-bagged and sealed in special clear "used gypsum program" bags, which are available at a number of home improvement retailers across the region.

Used gypsum bags are available at retailers listed [here](#). All retailers on the list have recently confirmed that they sell the bags, although it is possible that stock may run low at times. It is recommended to call stores ahead of time to ensure they have the bags in stock. Some retailers sell the bags through their websites, while others only have the bags available at their physical stores.

Used gypsum is also accepted for disposal at the Vancouver Landfill, detailed on the [City of Vancouver website](#). The City of Vancouver program has similar requirements to Metro Vancouver's program, but the City of Vancouver accepts black and yellow asbestos or hazardous waste bags in addition to the clear "used gypsum program" bags accepted at Metro Vancouver facilities. Used gypsum is not accepted at the Vancouver South Transfer Station.

Following feedback at the June 15, 2023 Zero Waste Committee meeting, some errors related to web page references on the Metro Vancouver and City of Vancouver websites have been identified and are being corrected. Metro Vancouver and City of Vancouver staff are working together to ensure that website information on the used gypsum programs is accurate, updated and aligned.

### **Sharing Metro Vancouver's "Food Scraps Aren't Garbage" Campaign with the US EPA**

Metro Vancouver's philosophy has always been to support the overall betterment of the environment by sharing resources with like-minded organizations working towards the same objectives. Campaign creatives are shared and made accessible at no fee, fostering collegial information sharing. As a result, Metro Vancouver has benefitted by creating a public commons of knowledge and creative assets, which further enhances the impact of its campaigns. This has been particularly relevant to Metro Vancouver's commitment to zero waste and its leadership to engage local, national, and global actions in support of waste prevention.

The US Environmental Protection Agency (EPA) has created a behavior change campaign toolkit for communities who wish to implement a food scrap recycling/composting program. It is designed for use by states, territories, local governments, tribes, and NGOs. The EPA asked to include Metro Vancouver's "Food Scraps Aren't Garbage" campaign in the toolkit, specifically materials that connect using the green bin and reducing climate change, like the "Prevent Bad Gas" video. Metro Vancouver provided working files and guidance. The toolkit also includes food scraps recycling campaigns from Portland, King County Washington, and the State of Vermont.

View the toolkit on the EPA's website: [Composting Food Scraps in Your Community: A Social Marketing Toolkit](#).

**River District Community Energy Centre**

Metro Vancouver is developing a Waste-to-Energy Facility District Energy system to supply heat and hot water to up to 50,000 homes in Vancouver, Burnaby and potentially New Westminster, and reduce greenhouse gas emissions by up to 70,000 tonnes per year. The first phase will be the construction of an approximately 6 km heat transmission piping system from the Waste-to-Energy Facility to the River District community in Vancouver. The energy centre and piping systems will be sized to support future district energy systems in Burnaby and potentially New Westminster.

River District Energy has received approval from the BC Utilities Commission to construct its River District Community Energy Centre and expand its pipe network to future phases of the River District development. The River District Community Energy Centre will house the interconnection between River District Energy and the 6 km heat transmission pipe from the Waste-to-Energy Facility. This approval is integral to this project and will allow River District Energy to continue growing its piping network and increasing the number of connected buildings which can use Waste-to-Energy Facility heat.

**House Relocation**

With the goal of diverting construction and demolition waste away from landfill and reducing greenhouse gas emissions, Metro Vancouver is working with Nickel Bros House Moving Ltd. to provide a temporary storage location at the Coquitlam Landfill for houses that would otherwise be demolished. The first house, pictured below, was successfully delivered on June 30, 2023, preventing an estimated 18 tonnes of waste from being created, as well as creating a lower cost housing opportunity when the home is relocated to its final destination. Director Craig Hodge, Vice-Chair of the Zero Waste Committee and Chair of the National Zero Waste Council, is quoted in [this recent article](#) on the benefits of re-using buildings through relocation: "Reducing construction and demolition waste is a top priority and I fully support prioritizing house relocation strategies."



*House temporarily stored at Coquitlam Landfill prior to relocation (2023)*

**Attachments**

- 1. 2023 Work Plan

60016189

**Zero Waste Committee 2023 Work Plan**  
Report Date: July 6, 2023

**Priorities**

<b>1<sup>st</sup> Quarter</b>	<b>Status</b>
2021 Solid Waste and Recycling Annual Report	Complete
2022 Holiday Waste Reduction Campaign Results	Complete
2022 Zero Waste Conference Report	Complete
Contingency Disposal Contract(s)	Complete
Gypsum Management in Metro Vancouver	Complete
National Zero Waste Council 2022 Accomplishments and 2023 Projects	Complete
Recycling and Waste Centre Operating Contracts	Complete
<b>2<sup>nd</sup> Quarter</b>	<b>Status</b>
2022 Disposal Ban Program Results	In progress
2022 Waste-to-Energy Facility Financial Summary	Complete
2022 Waste Composition Data	Complete
2022 – 2023 Metro Vancouver Engagement with the Love Food Hate Waste Canada Campaign	Complete
2023 Food Scraps Recycling Campaign Results	Complete
2023 Think Thrice Textiles Waste Reduction Campaign Results	Complete
Solid Waste Management Plan Update: Phase 1 Vision and Guiding Principles Workshop	Complete
Solid Waste Services Capital Program Expenditures Update as of December 31, 2022	Complete
<b>3<sup>rd</sup> Quarter</b>	<b>Status</b>
2022 Waste-to-Energy Facility Environmental Performance Summary	Complete
2023 National Zero Waste Council Projects	Pending
Recycling and Waste Centre Reuse Scale-Up	Pending
Repair Events, Programs, and Regional Food Recovery Network	Pending
Solid Waste Management Plan	Pending
Solid Waste Services Capital Program Expenditures Update as of April 30, 2023	In Progress
Zero Waste Conference 2023	Pending
<b>4<sup>th</sup> Quarter</b>	<b>Status</b>
2022 Solid Waste and Recycling Annual Report	Pending
2023 Single-Use Item Reduction Campaign Results	Pending
2024-2028 Financial Plan – Solid Waste Services	Pending
2024 Tipping Fee Bylaw Revisions	Pending
Waste-to-Energy Facility District Energy System	Pending
Solid Waste Services Capital Program Expenditures Update as of August 31, 2023	Pending
North Surrey and Langley Recycling Depot Development	Pending