



**METRO VANCOUVER REGIONAL DISTRICT
SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE**

Tuesday, April 9, 2024

1:00 pm – 4:00 pm

A G E N D A

1. AGENDA

1.1 April 9, 2024 Meeting Agenda

2. CO-CHAIR OPENING COMMENTS

3. MINUTES

3.1 March 5, 2024 Meeting Minutes

4. CO-CHAIR ELECTION

**5. Industry Advisory Committee Residuals Management Working Group – Work Plan Item
Follow-Up Discussion**

For input/feedback

Designated Speakers: Co-Chair Bryan and Co-Chair Hodge

6. REPORTS

6.1 Solid Waste Management Plan – Draft Vision and Guiding Principles

For input/feedback – Small group discussions

Designated speakers: Terry Fulton, Senior Engineer, Metro Vancouver and Stephanie Liu, Program Manager, Community Engagement, Metro Vancouver

Suggested discussion questions:

- Any comments on the draft vision statement?
- Any comments on the draft guiding principles? Is there anything that should be added or removed?

6.2 Draft Issue/Opportunity Discussion Questions– Idea Generation

Designated speakers: Terry Fulton, Senior Engineer, Metro Vancouver and Veronica Bartlett, Morrison Hershfield (now Stantec)

For input/feedback – small group discussions

Suggested discussion question:

- Any comments on the draft issue/opportunity discussion questions? Is there anything that should be added or removed?

7. OTHER BUSINESS

7.1 Zero Waste Committee and Other Updates

Verbal Update

Designated Speaker: Paul Henderson, General Manager, Metro Vancouver

7.2 IAC May Meeting Date Potential Conflict

For input/feedback

Designated Speaker: Co-Chair Lori Bryan

8. INFORMATION ITEMS

8.1 Regional Waste Flows – March

8.2 2024 Solid Waste and Recycling Industry Advisory Committee Meeting Schedule

8.3 DRAFT – 2024 Industry Advisory Committee Member Biographies

8.4 Vision and Guiding Principles - Industry Advisory Committee Workshop Summary

8.5 Industry Advisory Committee 2024 Work Plan

8.6 DRAFT - Residuals Management Working Group Terms of Reference

Committee Co-Chairs:

Director Craig Hodge, Zero Waste Committee Vice-Chair

Lori Bryan, Executive Director, Waste Management Association of BC

Membership:

Abrams, Izzie – Waste Connections of Canada	JansenVandoorn, Josh – Anaconda Systems Ltd.	McRae, Ralph – Revolution Infrastructure Inc.
Berkhof, Edwin – Evergen Infrastructure Corp.	Jessa, Imran – Delta Textiles Exporters Inc.	Millman, David – Waste Management of Canada Corp.
Bryan, Lori – Waste Management Association of BC	Johnson, Gord – Northstar	Moucachen, Maya – Merlin Plastics
Carrusca, Ken – Cement Association of Canada	Kaminski, Jamie – HSR Zero Waste	Pantazopoulos, Dimitri – Waste Connections of Canada
Collins, James – Tymac Launch Service Ltd.	Kawakami, Sean – Convertus Canada Ltd.	Prasad, Shad – Cascade Recovery + Scaldaferri, Fabio – Pacific Mattress Recycling Inc.
Crawford, Jeremy – Waste Control Services	Kiani, Aiden – Lock-Block Ltd.	Sigmund, Sandy – Encorp Pacific Canada, Return-It
Deol, Harwant – Super Save Group	Koehn, Leanne – Ridge Meadows Recycling Society	Turner, John – BC Biocarbon Ltd.
Dietrich, Christian – Ecowaste Industries	Lannin, Mike – Super Save Group	Van de Wetering, Jasper – Heidelberg Materials Canada Ltd.
Diamant, Jen – Capital Salvage	MacNeil, Patrick – Wescan Disposal Ltd.	Vargas, Pinky - Republic Services
Gontovnick, Jeff – 1-800-GOT-JUNK?	MacFarlane, Angus – Growing City	Young, Stewart, GFL Environmental Inc.
Hankins, Grant – Canada Minibins.com Ltd.	Mallari, Achilles – Sierra Waste Services Ltd.	Zarbl, Michael - Major Appliance Recycling Roundtable
	McAra, Matthew – GFL Environmental Inc.	



Metro Vancouver and City of Vancouver Staff:

Allan, Chris – Metro Vancouver

Belanger, Lynn – City of Vancouver

Doorn, Nanette van – Metro
Vancouver

Joy, Samantha - Metro Vancouver

Henderson, Paul – Metro Vancouver

Liu, Stephanie – Metro Vancouver

McDermott, Jon – City of Vancouver

Mizan, Zeenia – Metro Vancouver

Underwood, Chris – Metro
Vancouver

Vidler, Lynne – Metro Vancouver

**METRO VANCOUVER REGIONAL DISTRICT
SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE MEETING**

Minutes of the Regular Meeting of the Solid Waste and Recycling Industry Advisory Committee Meeting held at 2:00 p.m. on Tuesday, March 5, 2024, via Zoom Video Conference.

MEMBERS PRESENT:

Lori Bryan, Waste Management Assoc. of BC (Co-Chair)	MacFarlane, Angus, Growing City
Craig Hodge, Director, Metro Vancouver Board of Directors (Co-Chair)	Mallari, Achilles, Sierra Waste Services Ltd.
Abrams, Izzie, Waste Connections of Canada	McAra, Matthew, GFL Environmental Inc.
Berkhof, Edwin, Evergen Infrastructure Corp.	McRae, Ralph, Revolution Infrastructure Inc.
Carrusca, Ken, Cement Association of Canada	Millman, David, Waste Management of Canada Corp.
Crawford, Jeremy, Waste Control Services	Moucachen, Maya, Merlin Plastics
Diamant, Jen, Capital Salvage	Pantazopoulos, Dimitri, Waste Connections of Canada
Dietrich, Christian, Ecowaste Industries	Prasad, Shad, Cascade Recovery +
Hankins, Grant, Canada Minibins.com Ltd.	Sigmund, Sandy, Encorp Pacific Canada, Return-It
JansenVandoorn, Josh, Anaconda Systems Ltd.	Turner, John, BC Biocarbon Ltd.
Kaminski, Jamie, HSR Zero Waste	Van de Wetering, Jasper, Heidelberg Materials Canada Ltd.
Kiani, Aiden, Lock-Block Ltd.	Vargas, Pinky, Republic Services
Koehn, Leanne, Ridge Meadows Recycling Society	Young, Stewart, GFL Environmental Inc.
MacNeil, Patrick, Wescan Disposal Ltd.	

MEMBERS ABSENT

Collins, James, Tymac Launch Service Ltd.	Kawakami, Sean, Convertus Canada Ltd.
Deol, Harwant, Super Save Group	Lannin, Mike, Super Save Group
Gontovnick, Jeff, 1-800-GOT-JUNK?	Scaldeferri, Fabio, Pacific Mattress Recycling Inc.
Jessa, Imran, Delta Textiles Exporters Inc.	Zarbl, Michael, Major Appliance Recycling Roundtable
Johnson, Gord, Northstar	

METRO VANCOUVER AND CITY OF VANCOUVER STAFF:

Paul Henderson, General Manager, Solid Waste Services
Samantha Joy, Engagement Specialist, Solid Waste Services
Terry Fulton, Senior Project Engineer, Solid Waste Services
Zeena Mizan, Program Assistant, Solid Waste Services
Nanette van Doorn, Engagement and Communications Consultant, Solid Waste Services

PREPARATION OF MINUTES: Justine Wiklo, Raincoast Ventures Ltd.

Solid Waste and Recycling Industry Advisory Committee Meeting

March 5, 2024
2:00 PM – 4:00 PM
Zoom

Agenda

1. Welcome and Introductions
2. Agenda
 - 2.1. March 5, 2024, Meeting Agenda
3. Minutes
 - 3.1. February 6, 2024, Meeting Minutes
4. Reports
 - 4.1. Integrated Solid Waste and Resource Management Plan Biennial Report
5. Other Business
 - 5.1. IAC Facility Tour Opportunity
 - 5.2. Zero Waste Committee Updates
6. Co-Chair Nominations
7. Information Items
 - 7.1. Regional Waste Flows – February
 - 7.2. 2024 Solid Waste and Recycling industry Advisory Committee Work Plan
 - 7.3. 2024 Solid Waste and Recycling Industry Advisory Committee Members

MEETING MINUTES

Co-Chair Craig Hodge called the meeting to order at 2:01 p.m. and welcomed attendees to the Solid Waste and Recycling Industry Advisory Committee meeting. Participants were reminded to use the Zoom “raised hand” function to provide questions or comments or for any voting that might be required, and to ensure their names were correctly identified in the Participant list.

1. INTRODUCTION AND WELCOME

Co-Chair Hodge welcomed new Industry Advisory Committee members and thanked returning members for their continued interest. Industry Advisory Committee members were reminded to submit their conflict statements, which are available on the Industry Advisory Committee webpage. Members are not permitted to vote on decision items without a signed conflict statement.

Co-Chair Lori Bryan facilitated a round of self-introductions.

Co-Chair Bryan advised that the Industry Advisory Committee will meet seven times in 2024, and three of those meetings will take place in person. The Terms of Reference were reviewed, and highlighted the importance of working constructively and collaboratively, and to be mindful of the Code of Conduct.

2. AGENDA

2.1 March 5, 2024, Meeting Agenda

Co-Chair Hodge reviewed the March 5, 2024, meeting agenda. No additions were made.

3. MINUTES

3.1 February 6, 2024, Meeting Minutes

Co-Chair Hodge called for any additions or changes to the meeting Minutes of February 6, 2024. There were no changes or additions to the meeting Minutes of February 6, 2024.

4. REPORTS

4.1 Integrated Solid Waste and Resource Management Plan Biennial Report

Terry Fulton, Senior Project Engineer, Metro Vancouver, reviewed the Integrated Solid Waste and Resource Management Plan Biennial Report, noting the following highlights:

- The 2022 Annual report is combined with the Biennial report
- Biennial report includes recycling and waste data, waste prevention and reduction initiatives underway including the Food Recovery Network, Reuse Days, and Repair Cafes, updates on new Recycling and Waste Centres in Metro Vancouver, and details about the Waste-to-Energy Facility District Energy Project.
- The 2022 recycling rate is 65%, which is the same as 2021; however, there has been a decrease in waste generation
- The 35% disposed has been further separated to disposal facility and further split up by sector
- Reported concrete and asphalt numbers are unchanged from 2021, due to challenges in verifying increases in recycling quantities from private facilities

- The recycling rate is increasing, as waste generation is decreasing; however, these trends have leveled out in recent years.
- In 2022, the residential sector has seen an overall decrease in waste generation; however, the commercial sector has seen an increase as employees return to offices following the COVID pandemic
- It is difficult to get a reuse estimate; however, it is hoped that the methodology for this will improve through a performance metrics review being conducted by Morrison Hershfield. Reuse quantities are not included in the recycling calculations.
- Definitions in the report are based on the *British Columbia Environmental Management Act*
- The term “recycling rate” is used instead of “diversion rate”, as diversion rate is defined differently amongst jurisdictions, and the term “recyclables” is defined in the *Environmental Management Act*
- Based on feedback, the updated report format includes detailed methodology, assumptions, data sources, and construction and demolition recycling rates
- The next step is to present the report to the Public/Technical Advisory Committee for feedback, then present to the Zero Waste Committee. The report and feedback summary will then be submitted to the BC Ministry of Environment and Climate Change Strategy for review.

During discussion, the following comments were offered:

- This is the 2022 Biennial Report, with data from 2021 to 2022
- The 2021 Biennial Report refers to data from 2020 to 2021
- The Biennial Report is required by the Ministry of Environment and Climate Change Strategy
- Questions on how landfill cover materials specifically ground wood are accounted for. Landfill cover materials including ground wood are not included as recycling or disposal. Some communities do count landfill cover as recycling. Detail on how landfill cover is treated will be included in reporting to the Zero Waste Committee and Board.

5. OTHER BUSINESS

5.1 IAC Facility Tour Opportunity

Samantha Joy, Engagement Specialist, Metro Vancouver, advised that the June 11, 2024, Industry Advisory Committee meeting will be a shorter meeting followed by an optional tour of either the Waste-to-Energy Facility, the Vancouver Landfill, or the United Boulevard Facility.

A poll was conducted on Menti Meter, and the majority of participants selected the Waste-to-Energy Facility for the June 11, 2024, tour. It was noted that there will be other opportunities to tour the additional facilities in the future.

5.2 Zero Waste Committee and Other Updates

Paul Henderson, General Manager, Solid Waste Services, provided an update from the Zero Waste Committee, noting the following highlights:

- The March Zero Waste Committee Meeting was cancelled, and the next meeting will take place in April 2024

- The Waste Management Association of BC conference was in February 2024, and there was consideration on the hazardous materials such as bear spray, lithium-ion batteries, and vapes that have caused a number of fires in facilities
- There is a need to address the impact of hazardous materials, and a workshop is being considered to bring relevant parties together including waste industry, product stewards, and local governments
- A residuals management working sub-group with voluntary participation is also being put together, which will cover a range of topics including long-term disposal planning, competition, the generator levy, procurement, and capital budget
- A request will be sent out for Industry Advisory Committee members who are interested in participating in the working sub-group.

6. CO-CHAIR NOMINATIONS

Co-Chair Hodge advised that as per the Terms of Reference, the committee is to nominate a Co-Chair to be elected on April 9, 2024. Lori Bryan was nominated by Grant Hankins and accepted the nomination. Additional nominations can be made at the April 9 meeting from the floor.

7. INFORMATION ITEMS

7.1 Regional Waste Flows – February

7.2 2024 Solid Waste and Recycling Industry Advisory Committee Work Plan

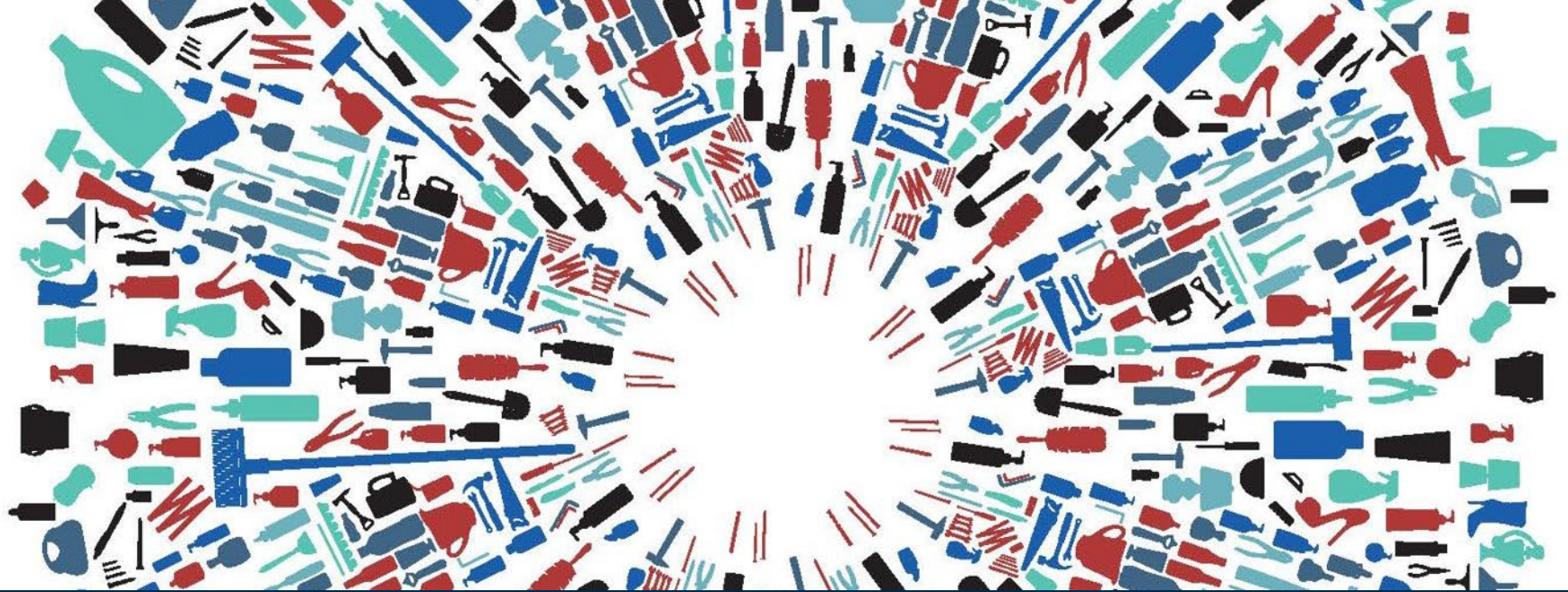
7.3 2024 Solid Waste and Recycling Industry Advisory Committee Members

In reference to the information items, Co-Chair Hodge noted all were attached to the agenda package. Waste flows are published after the agenda package and are available just before the meeting each month.

ADJOURNMENT

Co-Chair Hodge thanked Industry Advisory Committee members for their participation, comments, and feedback, and advised that the next Solid Waste and Recycling Industry Advisory Committee meeting would be held on April 9, 2024, in-person

The Solid Waste and Recycling Industry Advisory Committee meeting adjourned at 3:01 p.m.



Vision and Guiding Principles Workshop

Solid Waste Management Plan Update

VISION AND GUIDING PRINCIPLES REPORT BACK

Stephanie Liu

Program Manager, Solid Waste Community Engagement

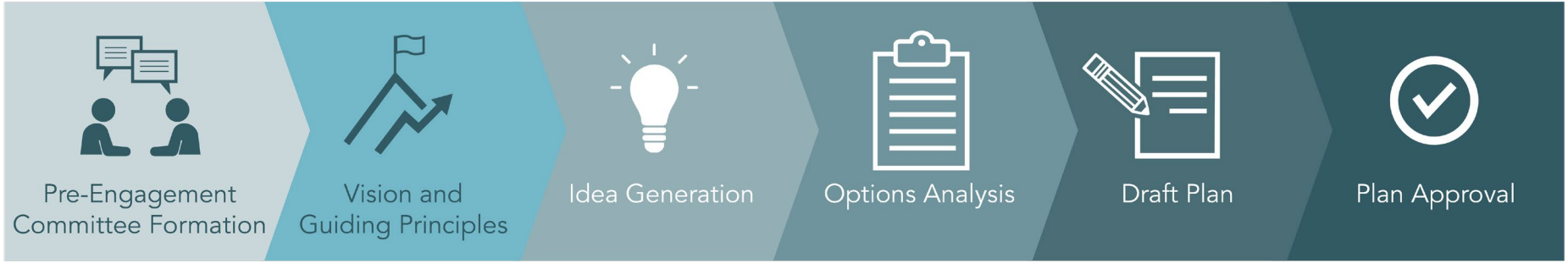
Terry Fulton

Senior Project Engineer

Industry Advisory Committee, April 9, 2024

metrovancouver

TIMELINE UPDATE



we are here

VISION AND GUIDING PRINCIPLES

Definitions

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

VISION AND GUIDING PRINCIPLES ENGAGEMENT






Timeline



ENGAGEMENT SUMMARY

Participation

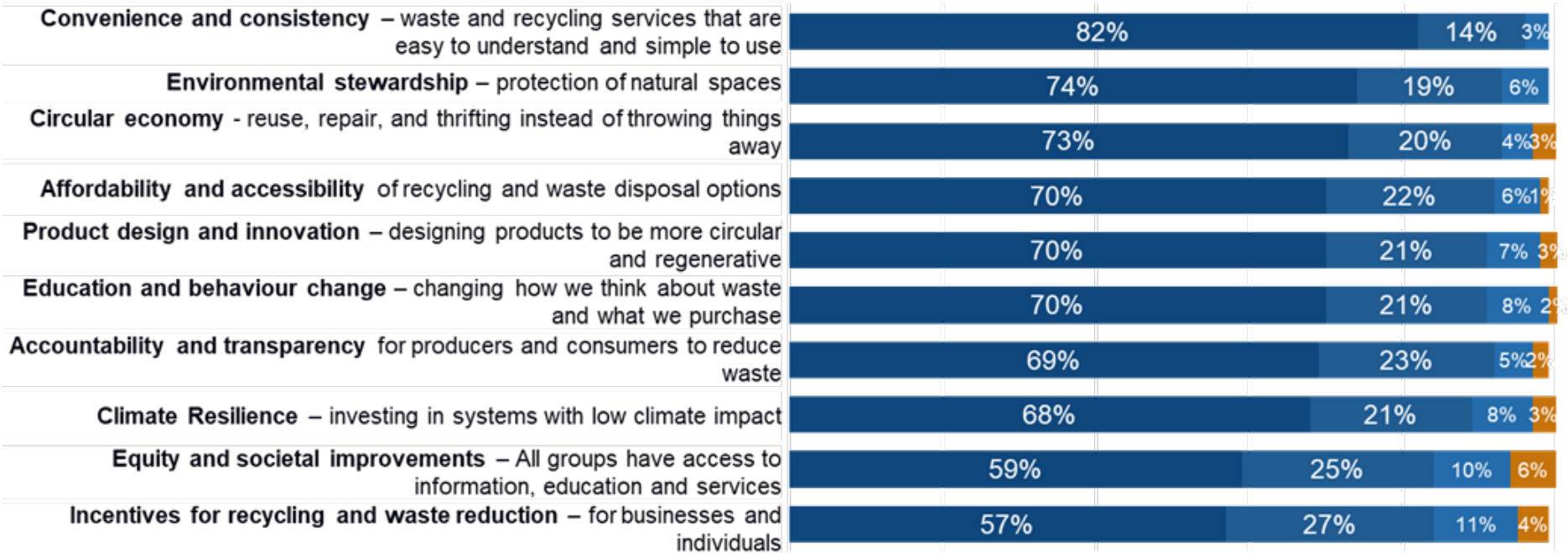
- 3,245 visits to the webpage
- 276 QR code scans
- 484 responses to questionnaire
- 6,800 postcards distributed
- 5,500 e-blast recipients
- 23 meetings with interested parties

	3245 visits to project webpage
	276 QR code scans from newspaper ads, postcards and e-blasts
	484 responses received to the questionnaire
	6800 postcards distributed at Metro Vancouver Recycling and Waste Centres, Vancouver Landfill, and Vancouver Transfer Station
	5500 e-blast recipients Two notifications sent, forwarded to: 1. committees: WMABC, IAC, PTAC, REAC-SW 2. interested parties: Recycling Council of BC, Ministry staff
	23 meetings with First Nations, Metro Vancouver Advisory Committees, Consultation and Engagement Panel, Member jurisdictions, and Regional partners

QUESTIONNAIRE SUMMARY

“A number of themes have been identified as potentially informing the vision and guiding principles for the updated solid waste management plan. Thinking of how we purchase, use, reuse, recycle, and throw things away in Metro Vancouver, please rank the following values and priorities.”

■ Very Important ■ Somewhat Important ■ Neutral ■ Less important/Not important



ENGAGEMENT SUMMARY – FEEDBACK

Common Themes

Empowerment, Education, Awareness

Economic considerations, including incentives and disincentives

Convenience, consistency and accessibility

Waste reduction and prevention

ENGAGEMENT SUMMARY – FEEDBACK

Common Themes

Climate and
environmental
stewardship

Corporate accountability and
transparency –
manufacturers and
industries

Individual accountability –
cultural shift; reduced
buying; waste-free lifestyle
/ choices

Innovation, technology
and infrastructure

Engagement –
community
involvement in
decisions

Transparent information about fate of
waste and recyclables; collaboration to
improve waste management processes
and policies

SUMMARY OF PREVIOUS FEEDBACK FROM IAC

Vision and Guiding Principles Workshop – 2023

- Improve service access in remote communities
- Consider cost and accessibility when planning services and facilities
- Improve waste and recycling metrics and reporting
- Recognize shared responsibility of individuals and industry
- Incentives for recycling, circular solutions, and facility development
- Design products to be recyclable
- Reuse construction materials
- Education and incentivize behaviour change
- Advance waste prevention, reuse, repair, and technological innovations
- Ensure policy allows market-driven outcomes

DRAFT VISION STATEMENT AND GUIDING PRINCIPLES

Vision and guiding principles development:



OVERARCHING PRIORITIES



- Social equity and human health
- Collaboration and strong partnerships
- Environmental health
- Financial sustainability and regional affordability
- Climate action
- Resilient services and infrastructure
- Reconciliation

SOLID WASTE MANAGEMENT PLAN DRAFT VISION

Vision

“Together we build a thriving, sustainable region where nothing is wasted.”

VISION – FEEDBACK

Vision

Together we build a thriving, sustainable region where nothing is wasted.

Feedback / Source	Key word/ phrase
Partnerships and coordination, cooperation between different stakeholders and sectors to improve waste management	Together
Technological innovation, sustainable design for longevity, reparability, and circularity; global leadership; growth of circular economy, green jobs, and economic resiliency	Build
Concepts of livability and prosperity in the Board Strategic plan	Thriving
Ecosystem protection; protection of biodiversity; sustainable use of natural resources	Sustainable
Prevent producing excessive waste such as over-packaging; Cultural shift to reduce consumption; circular economy principles of reuse; reduce single use items; reusable alternatives	Nothing is wasted

8 GUIDING PRINCIPLES



Advocate for increased accountability from residents, businesses, and governments to reduce waste.



Build confidence about what happens to our waste and recycling and how we measure waste reduction and recycling.



Create a solid waste system that is resilient to climate change and future challenges.



Enable all users — regardless of their income, education, or life experience — to participate fully.



Foster innovation and collaborative solutions to support a vibrant regional economy.



Prioritize environmental stewardship by valuing and conserving materials and products.



Promote a solid waste and recycling system that is easy to use, convenient to access, and consistent across the region.



Take action to reduce the carbon footprint of materials used in our region.

FEEDBACK

Example

Feedback



Make recycling and waste disposal more accessible and convenient for residents



Consistent rules and services across the region



Ensure all groups have access to waste management services and information



Principle

Promote a solid waste and recycling system that is easy to use, convenient to access, and consistent across the region

NEXT STEPS

- Draft vision and guiding principles
- Develop list of issues/opportunities

- Share with:
- First Nations
 - Member staff
 - Industry Advisory Committee
 - Public/Technical Advisory Committee
 - Engagement Panel

Present to Zero Waste Committee and GVS&DD Board

DISCUSSION

Small Group Discussions

Any comments on the draft vision statement?

Any comments on the draft guiding principles? Is there anything that should be added or removed?

NEXT STEPS

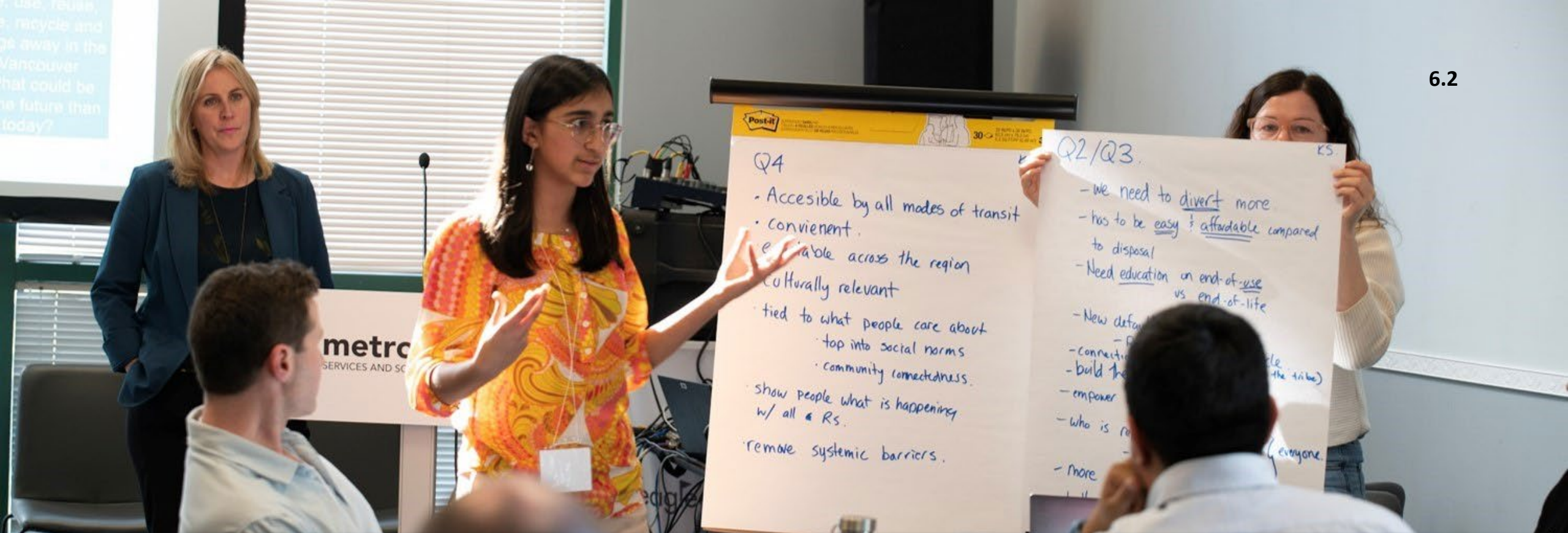
- Feedback from this meeting will be considered prior to presenting the draft Vision and Guiding Principles to the Zero Waste Committee
- Additional feedback and comments can be submitted to solidwasteoperations@metrovancover.org



Vancouver Skyline

Thank you

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Solid Waste Management Plan Update

IDEA GENERATION PLANNING

Terry Fulton

Senior Project Engineer

Industry Advisory Committee, April 9, 2024

ENGAGEMENT OBJECTIVES



Generate ideas and potential solutions to issue/opportunity discussion questions



Updated goals will emerge from feedback during idea generation and from other research

- Goals can be used as part of the criteria to evaluate ideas during options analysis phase

ISSUE / OPPORTUNITY DISCUSSION QUESTIONS

Developed via:

- Review of current solid waste management plan
- Engagement feedback from vision and guiding principles phase
- Feedback from advisory committees

Purpose:

- Provide a framework and prompting questions for Idea Generation discussions
- Build on feedback already received to date

ADVISORY COMMITTEE APPROACHES

Public / Technical Advisory Committee

- Input on issue/opportunity discussion questions
- Working groups separate from regular meetings
- Fall presentation day

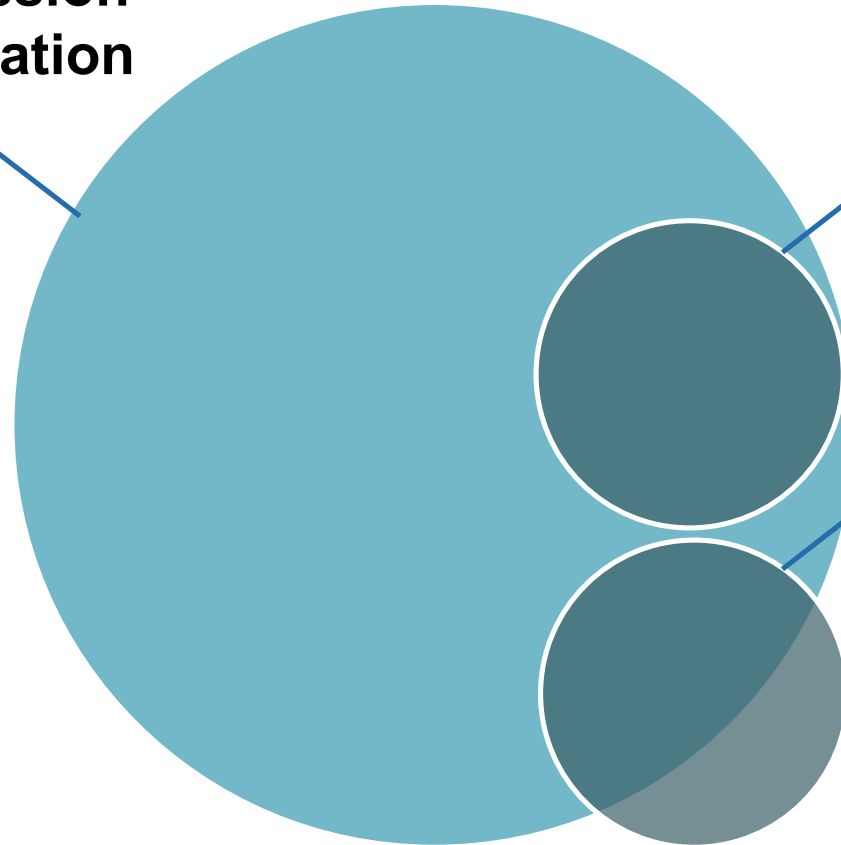
Industry Advisory Committee

- Input on issue/opportunity discussion questions
- Small groups in regular meetings
- Fall workshop

ADVISORY COMMITTEE APPROACHES

Issue/Opportunity Discussion Questions for Idea Generation

- Public
- Collaborative Engagement
- IAC Workshop
- PTAC meetings and presentation day



PTAC

working groups

IAC

small group
discussions at regular
meetings



now



Issue and Opportunity Discussion Questions

Metro Vancouver's Solid Waste Management Plan Update
Presentation at the Solid Waste and Recycling Industry Advisory Committee Meeting on April 9, 2024



Presentation Outline

- Background
- Purpose of next planning phase
- Overview of discussion questions
- Primary groups
- Discussion questions 1 – 7 with examples
- What's next?



Background

The issues and opportunities are based on:

- Current solid waste management plan and progress towards its goals
- Engagement feedback from the visions and guiding principles phase
- Advisory committees feedback to date
- Other relevant reports and data (e.g. waste composition studies and annual reports)



Discussion Questions to Guide Idea Generation

Idea Generation Phase:

- What are the issues that need to be overcome to achieve our vision?
- What are the opportunities?

- Discussion questions will guide idea generation
- Inform a list of ideas to be assessed in future phases



Overview of Discussion Questions

- 1 How do we implement waste prevention initiatives to reduce waste generation?
- 2 How do we increase environmental stewardship of products and materials?
- 3 How do we best support innovative and collaborative solutions to reduce waste?
- 4 How do we increase recycling and composting efforts after maximizing waste reduction and reuse?
- 5 How do we build confidence in what happens to our waste and recycling, and how do we measure waste reduction and diversion?
- 6 How do we reduce barriers to residents and businesses and continue to encourage good waste management decisions?
- 7 How do we further improve the infrastructure and system for waste management across the region?



Overarching Groups for each question



Leadership at home

These actions are directed towards residents, including single-family and multi-family residents.

Leadership at work

These actions are directed towards the commercial/institutional and construction and demolition sector.



Leadership in the community

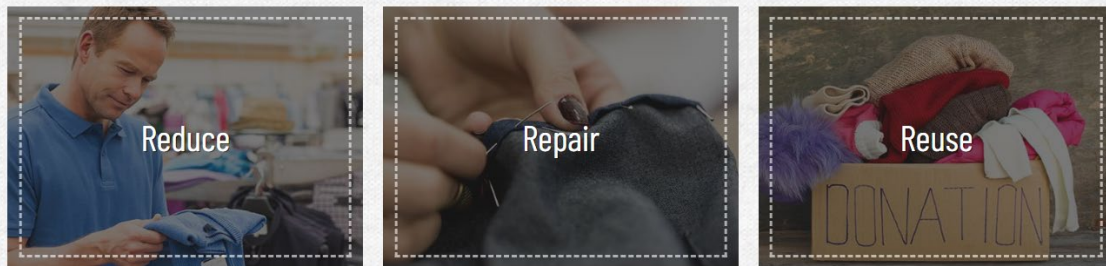
These actions are directed towards Metro Vancouver, First Nations, member jurisdictions, electoral areas, and the waste and recycling industry.



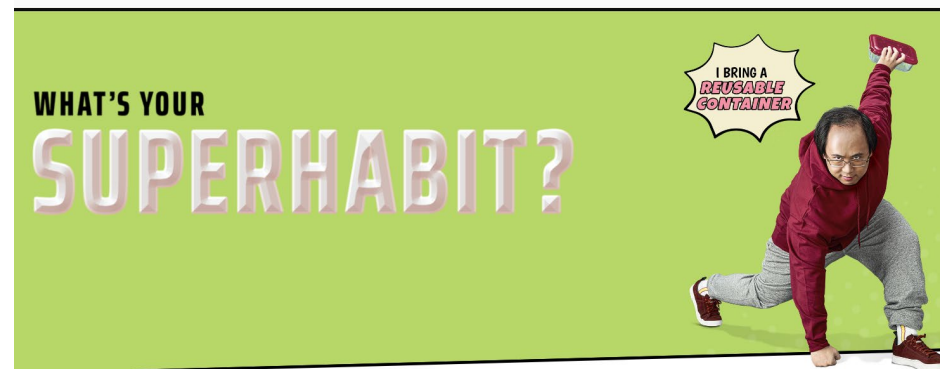
Q1: How do we promote waste prevention initiatives to reduce waste generation?

Example Strategies:

- Encourage sustainable purchasing choices
- Promote repair
- Expand reuse opportunities



Think Thrice About Your Clothes



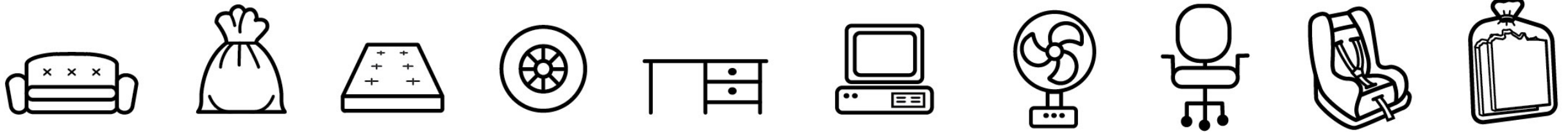


Q2: How do we increase environmental stewardship of products and materials?

Example Strategies:

- Promote individual and corporate accountability

Put Waste in its Place



RECYCLE | DONATE | DISPOSE



Q3: How do support innovative and collaborative solutions to reduce waste?

Example Strategies:

- Find ways to partner with the solid waste and recycling industry, adjacent regional districts, non-profit sector, and businesses.





Q4: How do we increase recycling and composting efforts so fewer materials are going to landfill?

Example Strategies:

- Improve participation at the source
- Reduce contamination
- Increase opportunities for recycling materials
- Strengthen product markets



Q5: How do we build confidence in what happens to our waste and recycling, and how do we measure waste reduction and diversion?

Example Strategies:

- Improve education on what happens to recyclables and waste
- Improve tracking and reporting of solid waste statistics



Q6: How do we reduce barriers to residents and businesses while continuing to encourage good waste management decisions?

Example Strategies:

- Improve access to services and information for all communities
 - Consider options for residents with mobility, language, and other barriers
 - Consider affordability





Q7: How do we further improve the regional infrastructure and system for waste management?

Example Strategies:

- Facilitate increased recycling processing capacity
- Support sustainable infrastructure development
- Increase resilience





Whats next?

- Advisory committees and member jurisdictions to provide feedback
- Issues and opportunities discussion questions will be updated with the feedback





Thank you!

*Veronica Bartlett
Solid Waste Planner*

*Please send any additional questions to:
Terry.Fulton@metrovancover.org*

metrovancover
United Boulevard Recycling and Waste Centre



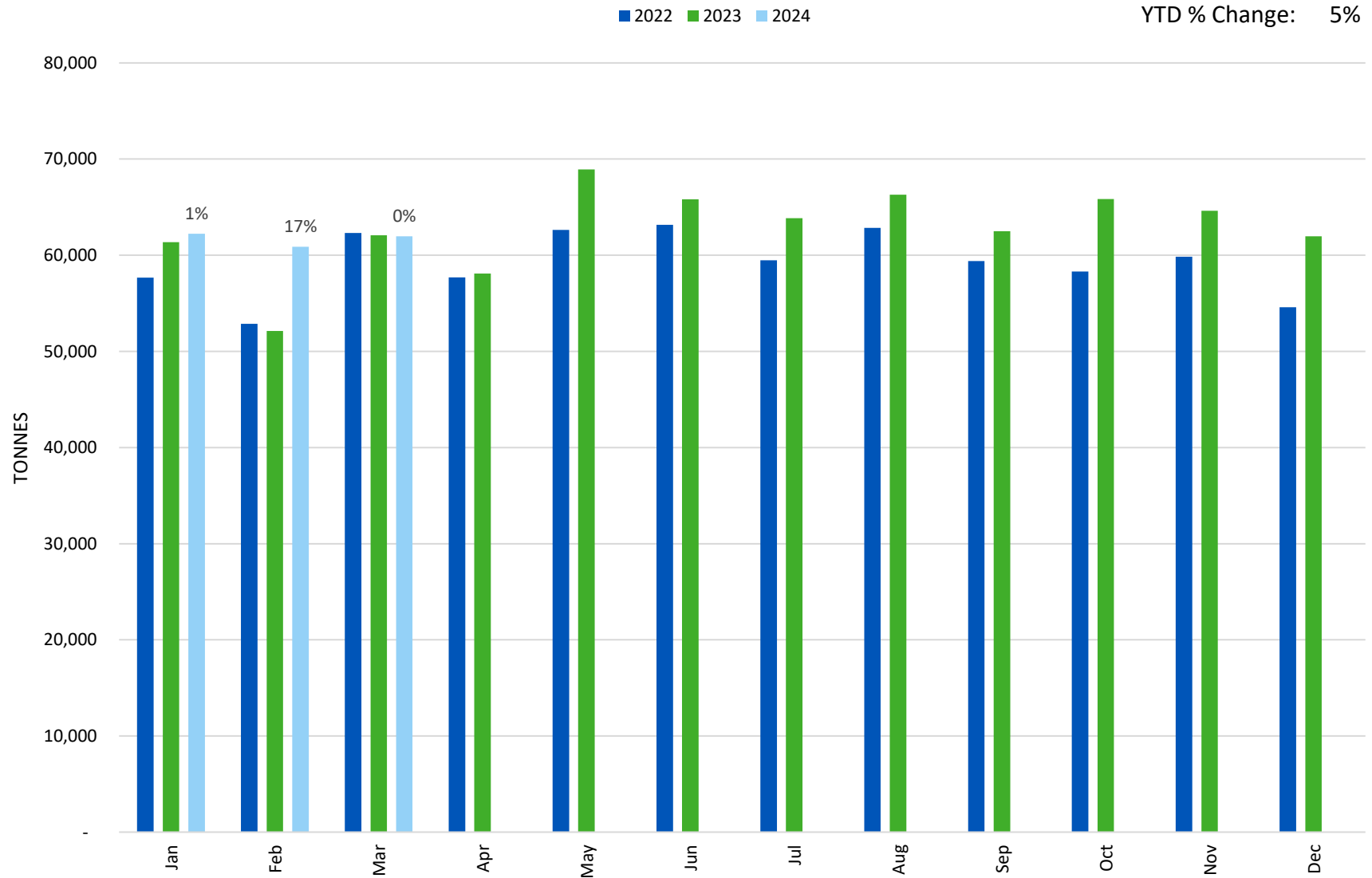
DISCUSSION

Small Group Discussions

Any comments on the draft issue/opportunity discussion questions?

Is there anything that should be added or removed?

Metro Vancouver Waste Quantities* 2022 - 2024**



**Data reconciled to Feb 2024

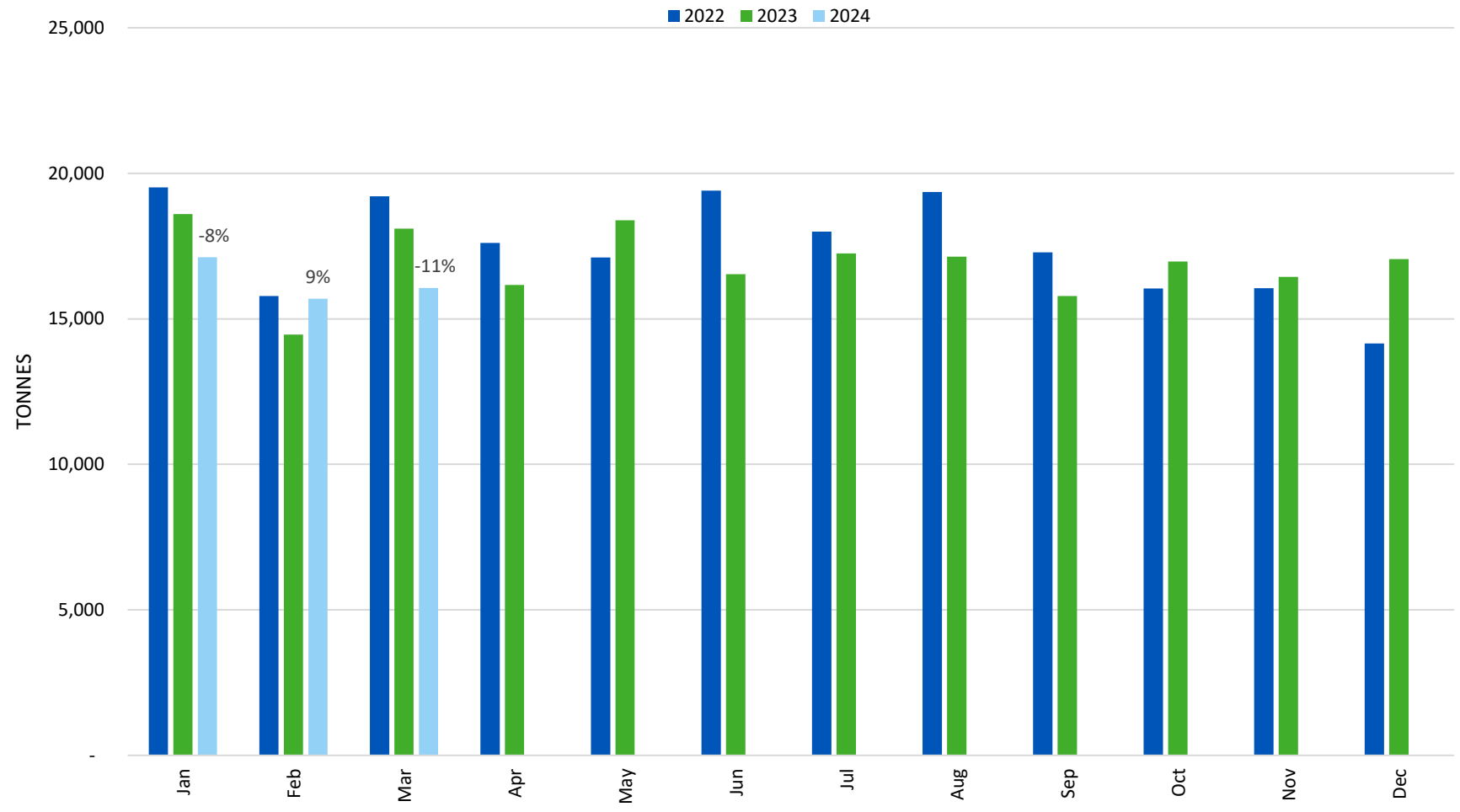
*Metro Vancouver's Six Recycling and Waste Centres & the Waste-to-Energy Facility

City of Vancouver Waste Quantities*

2022 - 2024

(Demo garbage not included)

YTD % Change: -4%



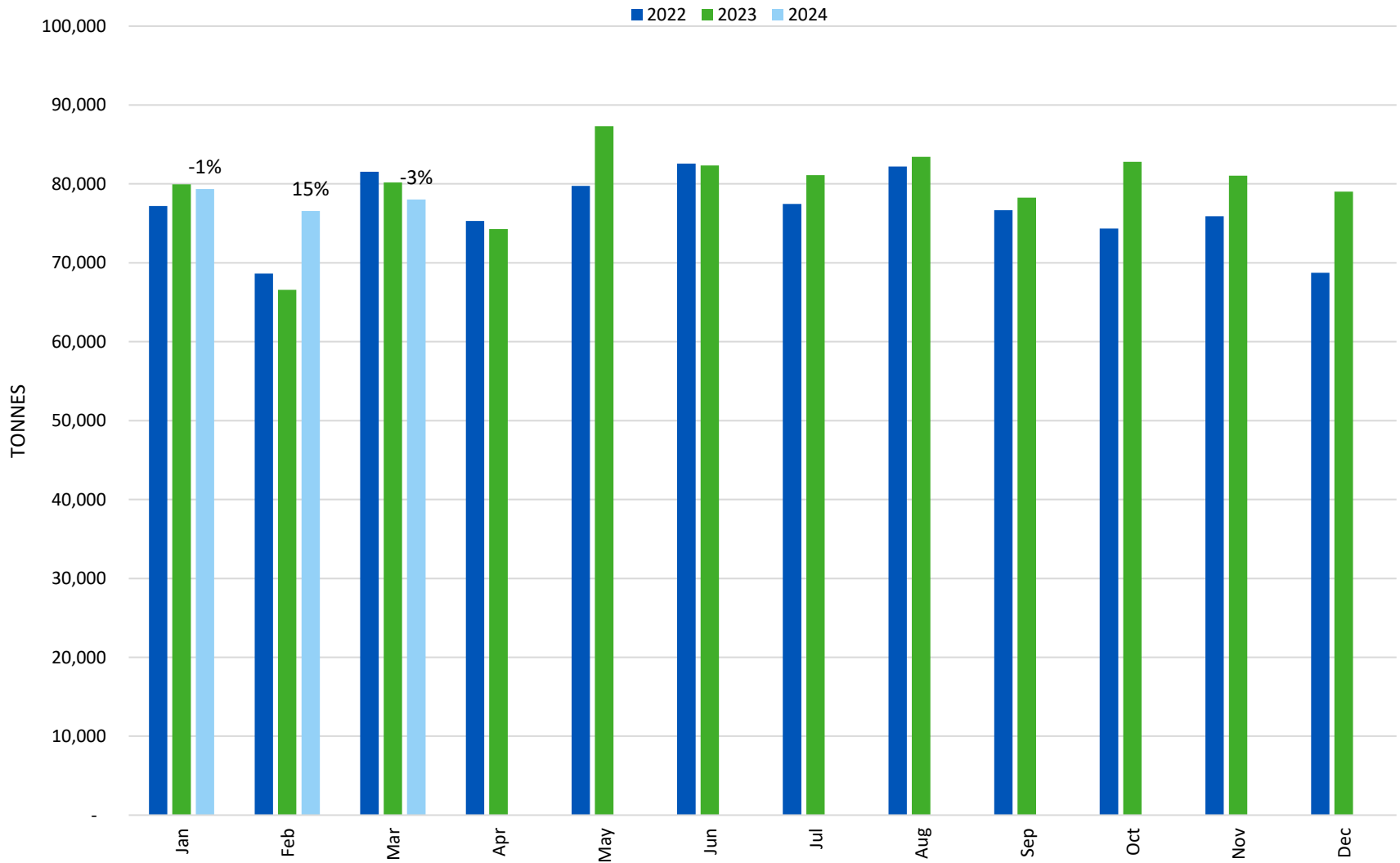
*Vancouver Landfill & Vancouver South Transfer Station

Metro Vancouver and City of Vancouver Waste Quantities

2022 - 2024*

(Demo garbage not included)

YTD % Change: 3%



*Metro Vancouver data reconciled to Feb 2024

Solid Waste and Recycling Industry Advisory Committee 2024 Meeting Schedule

January						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

April						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

July						
Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	24	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

October						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29		

May						
Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

August						
Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

November						
Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
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- Virtual meeting
- In Person meeting / workshop

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024



Director Craig Hodge, Co-Chair

Metro Vancouver Board Director Craig Hodge is a City of Coquitlam Councillor, a title he has held since 2011. Director Hodge serves on the Metro Vancouver Board, and is the Vice-Chair of the Zero Waste

Committee. Director Hodge is also Chair of the National Zero Waste Council Management Board, and serves on the Metro Vancouver Regional Parks Committee and Water Committee.



Lori Bryan, Co-Chair

Lori Bryan is the Executive Director of the Waste Management Association of BC (WMABC) and has helped guide the association through a number of campaigns to ensure the private waste & recycling sector has a voice at government

level discussions, to collaborate on solutions and maintaining an open and competitive market.

Lori started in the waste sector by working for a small company in the 1990's, who she represented at WMABC meetings. She began raising a family in 1996, while continuing to be involved by working with independent companies and took on the ED position for the WMABC in 2010. Recently, she participated on the Emergency Management of BC (EMBC) committee, both for COVID-19 and the 2021 Flooding emergencies, providing guidance on waste & recycling issues to the Province.

Lori was part of the working group that brought about the Metro Vancouver IAC and became a member to continue to work together on industry solutions.



Achilles Mallari

Achilles Mallari is the President of Sierra Waste Services Ltd. His background is in Operations and Quality Management through BCIT and been focused on collection and processing of solid waste and recycling, including logistics management over the past 23 years.

Through his work, he has been involved in all aspects of operations at materials recovery processing facilities (MRF) including design, set up, and management of various facilities in BC and MB. Achilles currently leads and directly manages teams in the collection of residential curbside

and ICI materials. Achilles is also involved with municipal partners to review, design, and implement environmental initiatives. Through working with local processing facilities and participating in their meetings related to current policies and industry best practices, this helps to understand the requirements for program success.

Achilles joined the IAC to collaborate and share his experience in the industry to contribute and assist Metro Vancouver as they plan new and innovative initiatives for the industry and region.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024

Aiden Kiani

Aiden Kiani is a Professional Engineer (P.Eng.), Geotechnical / Materials and has a Master’s degree in Engineering. He also holds a Master’s degree in Business Administration and a Master’s degree in Educational Technology

and Learning Design. Aiden is the CEO of Lock-Block Ltd. & Green-Stone Aggregate, and is an instructor at BCIT in Civil Engineering.

Aiden joined the IAC to contribute to the development of public policies, engage in the activities of the community of practice, and help shape a sustainable lifestyle in our society.

Angus MacFarlane

Angus MacFarlane has dedicated over nine years to the waste and recycling industry, involved in various roles such as management and logistics. He is passionate about the industry and problem-solving. Apart from his professional

commitment, he enjoys cycling and spending time in nature. Angus’ passion for sustainability, both in his career and outdoor pursuits, reflects his commitment to making a positive impact on the environment and personal well-being.

Seeing things firsthand has inspired Angus to help find solutions and support efforts for continuous innovation in our local waste processing. By joining IAC, his aim is to actively contribute to the waste and recycling goals while also bringing his passion, experiences, and perspectives.



Christian Dietrich

Christian Dietrich is the Vice President of Recycling and Waste Services at Ecowaste Industries. Christian’s entire work experience centers around waste management, specifically hazardous waste and solid waste management. He has

worked in and led teams to design, commission, operate and maintain five separate waste processing plants ranging from a hazardous waste fuel blending facility in Tennessee, to fuel production from residential waste in London UK, to anaerobic digestion of food and garden waste in Surrey, BC.

Christian has also taken part in operational teams to improve safety and operational performance at a variety of waste processing plants including, material recovery facilities, mechanical biological treatment, combined heat and power incinerator, and waste-gasification. Christian holds a BSc Environmental Science from Lake Superior State University and an MBA from Seattle University.

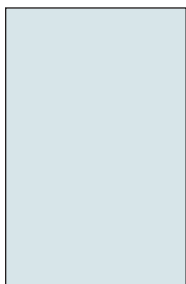


David Millman

David Millman has over 30 years of experience in the waste and recycling industry working with the private and public sector. David has worked through implantation of: Waste Bans, Bylaw changes, Recycling, Organics, Short and

Longterm Disposal Options, and COVID Protocol. Proving solution to problems in both the private and public sector. David joined the IAC to work closely with all industry partners to find cost effective solutions to current and longterm issues.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024



Dimitri Pantazopoulos

Dimitri Pantazopoulos is a government relations and public policy consultant with a decade of experience in the waste industry. In addition, Dimitri owns and operates a public opinion research firm, that specializes in public policy and

reputation management.

Dimitri joined the IAC to assist their client, Waste Connections, to represent their interests and the broad interests of a competitive market system and an approach to government management that emphasizes fiscal prudence.

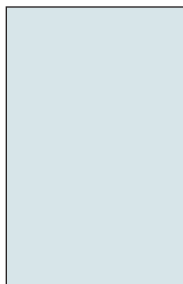


Edwin Berkhof

Coming from the Netherlands, Edwin Berkhof has always been avidly interested in sustainable recycling and agricultural practices. Edwin received a degree in Mechanical Engineering and has been in the waste industry for over

eleven years with project and operations experience in different capacities.

Edwin has worked in waste-to-energy solutions, Anaerobic Digestion, Composting and Mechanical Treatment Technology, and the Surrey Biofuel Facility's construction & commissioning. He currently works for Evergen Infrastructure Corp. as Vice President of Technical Services using his knowledge for the development and acquisition of new projects and to support new operations into successful integration in the corporate group.



Fabio Scaldaferrri

Fabio Scaldaferrri, owner Mattress RecyclingTM (Pacific Mattress Recycling Inc.) is one of Canada's largest mattress recycling facilities. Established in 2009, Mattress RecyclingTM will now processes over 200,000 mattresses per

year with a team of 18 employees and specialized equipment. Mattress RecyclingTM specializes in disassembling used mattresses, box springs and futons and recovering the components within for re-manufacturing into different products. The recycling rate per mattress is over 90% and takes a different approach with its unmarketable than other companies; it turns those materials into a coal-replacement fuel that is used to heat the cement kilns in the Lower Mainland.



Gord Johnson

Gord Johnson is a co-founder that developed a proprietary process for the recovery of 100% of the material from asphalt shingles. Gord has 30 plus years of experience in building, growing, and managing companies. He is the former CEO

of Save Energy Walls, Lodgeview Entertainment & Intrepid Security.

Gord is involved with multiple jurisdictions in Canada and the US with regard to material recovery facilities and the collection of solid waste as it relates to Construction & Demolition waste especially asphalt shingles.

Gord joined the IAC as he has some experience in this field and wants to understand & apply the best practices for solid waste management not only for his company but across the region and asses if they can be applied in other areas.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024



Grant Hankins

Grant Hankins has been involved in the industry for close to 30 years working for private and publicly traded companies in Canada and the United States.

Grant currently owns assets and investments in the industry and is

the Chair of the Waste Management Association of BC as well as a member of Metro Vancouver’s Solid Waste Management Plan Public/Technical Advisory Committee. Grant has a MBA, an undergraduate degree in business from SFU and business diploma with Capilano University and is currently a consultant to various companies in the industry in Canada and the US.

Grant has an interest in working collaboratively with government to develop policies and processes that create a better environment, while creating a business environment that creates an open competitive and efficient market to drive higher environmental standards while doing it in a fiscally responsible manner for tax payers.

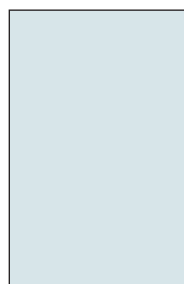


Harwant Deol

Harwant Deol has been involved in the waste management business for the last thirty years. It has given Harwant a tremendous amount of opportunity as back in their native homeland there was no potential to grow skills and abilities. Harwant

started their career in the US for an environmental company where they checked leaked tanks, took soil samples then checked contamination levels, then removed tanks and cleaned all the contamination. A short while later Harwant moved to Canada where they worked in a waste disposal company as a sales representative. Around 6 months later Harwant was promoted to sales manager where they are able to help others. Harwant also got more involved with waste transfer stations.

Harwant joined the Solid Waste and Recycling Industry Advisory Committee because they believe their experience, knowledge and exposure to the local waste collection and recycling system will help guide the future of tackling major efficiency issues and long term environmental concerns.



Imran Jessa

Imran Jessa has 25 years experience in the recycling business. They graduated from UNBC in 2003 with a degree in International Business.

Imran enjoys golf, and reading about politics and current events.

Imran joined the IAC to be a part of a team that will lead to a better cleaner future for a our region.



Izzie Abrams

Izzie Abrams is Vice President Government & External Affairs, Waste Connections of Canada. His career has spanned over 5 decades in the waste industry. He has held various executive positions successfully developing

and implementing growth strategies as well as government and community affairs programs. He has also held leadership roles in various trade associations, charitable foundations and not for profit organizations. Izzie holds numerous community and industry awards having been inducted into the National Waste and Recycling Association Hall of Fame in 2014.

Izzie joined the IAC to provide his industry experience and insights. As well as make a positive contribution for the advancement of better waste management practices as they relate to policy issues regarding solid waste and recycling services in Metro Vancouver.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024



James Collins

James Collins has worked in the local waste industry for the last 20 years, managing hazardous waste disposal, implementing recycling initiatives and providing garbage service.

James joined the IAC because he thinks it is important to participate and give back to the community. The more people that do this, the better the place is in which to live.



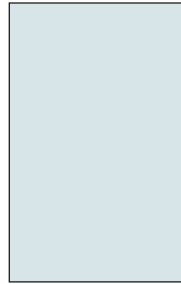
Jamie Kaminski

Jamie Kaminski is a Zero Waste Business Associate (ZWA, TRUE Advisor) and is President of Happy Stan’s Recycling Services Ltd. Zero Waste. He is a Board Member of Zero Waste Canada and the Zero Waste International Alliance, and is

Chair of the Zero Waste Definition and Zero Waste Hierarchy working group.

Jamie’s 27 years plus of experience is in solid waste management from both a ground level and policymaking perspective. His area of expertise lies within international best practices in respect to internationally accepted zero waste policies and programs. He works with fellow policy advisors to create strong, practical and enforceable policies that drive change towards zero waste. Jamie has developed extensive experience in understanding how regional policies and bylaws affect the existing waste management system from the perspective of the service provider, the client, as well as the region as a whole.

Jamie joined the IAC to support Metro Vancouver in their desire to incorporate more Zero Waste programs, policies and metrics into their solid waste management plan update.

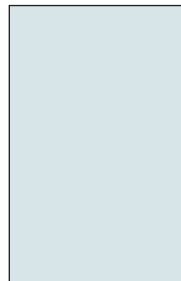


Jasper van de Wetering

Jasper van de Wetering has 25 year experience in the cement manufacturing industry, with 11 of those years focused on environment and sustainability. For the past 6 years Jasper has focused on developing Alternative Waste Based Fuels

programs for the cement sector. Prior to their career in cement manufacturing Jasper worked for 11 years as an Environmental Analytical Chemist.

Jasper joined the IAC to promote the use of low carbon waste materials as a replacement for fossil fuels.



Jeff Gontovnick

Jeff Gontovnick is Managing Partner of 1-800-GOT-JUNK? Fraser Valley, Jeff operates a junk removal franchise which services roughly half of Metro Vancouver. Jeff is motivated by growth and people development, and building connections within an

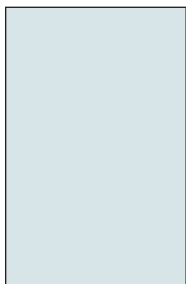
industry that is constantly changing.

Jeff has been involved in the waste and recycling industry for almost 20 years in various capacities, starting at the front lines on the trucks, to leading national sales teams, to business consulting, to their current role leading a franchise operation.

Jeff has always had an interest in municipal waste and recycling policy and systems, particularly in an environment like Metro Vancouver where environmentalism is a strong part of the public identity. Joining this committee will give Jeff more opportunity to learn how they can positively contribute to the region’s goals.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024

Jenika Dimant



Jen Dimant brings 9 years of invaluable experience in the solid waste and recycling industry, showcasing a remarkable journey as the owner/operator of a local metal recycling facility. Under her guidance, the company has

witnessed exponential growth, with staff, customers, and revenue. This achievement underscores her exceptional leadership, strategic vision, and dedication to excellence in the industry.

Eager to further her involvement and impact in the solid waste and recycling sector, Jen is enthusiastic about joining the Solid Waste and Recycling Industry Advisory Committee (IAC). She recognizes the importance of collaboration and knowledge-sharing among industry professionals to address complex challenges and drive sustainable solutions. By becoming a member of the IAC, she aims to contribute her expertise, leverage her network, and stay abreast of emerging trends and best practices, ultimately advancing the goals of her company and the industry as a whole.

Jeremy Crawford



Jeremy Crawford has worked in the industry for the past 14 years in various roles and is currently the General Manager of Waste Control Services, where one of Jeremy's responsibilities is to operationalize the company's strategy and execute

its business plans.

Jeremy joined IAC to collaborate with peers within the industry and Metro Vancouver, to assist and support decision making by Metro Vancouver as it relates to solid waste and recycling services in the Metro Vancouver region.



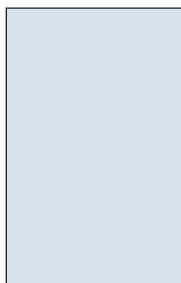
John Turner

John Turner has over 40 years of experience as a high performance, transformational and results-oriented professional with a record of success as a business development and operations leader in the energy sector; agile

and decisive in driving positive change, continuous improvement and leading teams toward achieving objectives. John started their career in the oil and gas industry, and has grown into a contributor to the commercialization of renewable fuels, green power generation, and carbon sequestration products as our understanding of GHG impacts has evolved, building relationships with industry and government leaders throughout Canada along the way.

John is very interested in transforming "waste" into a feedstock in a circular economy, and John is currently working on waste-to-biochar and waste-to-Carbonized Solid Biofuel (biocoal) company initiatives. John believes understanding the waste collection, sorting, recycling and disposal processes, within a regional governance environment, will help them contribute to ideas, initiatives, and business opportunities to reduce pressures on landfills and the associated GHG impact, and better utilize what should be viewed as a resource rather than waste.

Josh JansenVandoorn



Born and raised in Langley BC, Josh JansenVandoorn graduated from Trinity Western University and is the father of three kids.

Josh has worked in the waste industry for 12 years both on the hauling and processing side. Josh

has been a director with the Waste Management Association of BC for the last 8 years.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024



Ken Carrusca

Ken Carrusca works with the Cement Association of Canada (CAC). His experience in waste management includes the areas of Zero Waste, waste transfer, energy recovery, and waste disposal. The Cement industry released Concrete

Zero – its Net-Zero Action Plan in 2023 and is focused on working across the cement and concrete value chain to reduce GHG emissions. This includes the use of non-recyclable waste materials as alternative fuels for cement manufacturing; optimized production adoption of lower carbon intensity cement and concrete materials; and advocating for the reuse and recycling of end-of-life concrete.

Ken was born and raised in Vancouver, studied chemistry and chemical engineering at UBC and is a registered Professional Engineer.

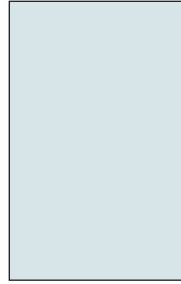


Leanne Koehn

Leanne Koehn is the Community Engagement Manager at Ridge Meadows Recycling Society (RMRS), a non-profit that works in partnership with the City of Maple Ridge to provide recycling and environmental programs and

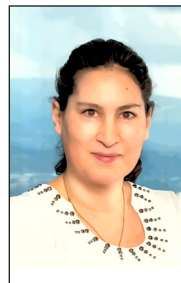
services and manage the Maple Ridge Recycling Depot. In 2018, Leanne launched Maple Ridge Repair Cafes, now in their 7th year, and annually Leanne organizes the Celebrate Earth Day in Maple Ridge festival. Their organization also runs an employment skills program at the Recycling Depot for people with diverse abilities in partnership with Community Living BC.

Leanne joined the IAC to learn more about viewpoints of diverse stakeholders, stay updated about and contribute to solid waste and recycling services and policy in Metro Vancouver.



Matthew McAra

Coming soon.



Maya Moucachen

Maya Moucachen is an Electrical Engineer and Director of Business Development at Merlin Plastics. Maya holds a MS from University of Illinois at Urbana-Champaign, an MBA from INSEAD.

Maya joined Merlin Plastics in 2012. Since 1987, Merlin Plastics has planned, developed, and refined the re-processing of PE, PP, LDPE, and PET. The company began its recycling business out of a 2,000 square foot warehouse in Delta, B.C and now operates recycling facilities totaling over one million square feet with sister plants in Alberta, Ontario, California and Oregon. Merlin Plastics has been honoured to receive various awards including in 2005 when the Recycling Council of BC recognized it with an award, “in recognition of ongoing commitment to the ideals of responsible environmental stewardship in the province of British Columbia”.

Maya is passionate about the environment, and feels blessed to have a career that is consistent with her personal environmental values. She is honoured to be a member of the Solid Waste and Recycling Industry Advisory Committee.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024



Michael Zarbl

Michael Zarbl joined the Major Appliance Recycling Roundtable as the Executive Director in July 2017. Prior to that, Michael was the Director of Operations at Recycle BC (formerly MMBC) the Extended Producer Responsibility

program for packaging and printed paper in British Columbia. Before joining Recycle BC, he was the Senior District Manager for Waste Management of Canada Company for four years, where he was responsible for the entire operation of the Vancouver Hauling District. Prior to that, Michael held various private sector positions at major corporations such as Director of Operations with Ryder Container Terminals, a large export/import and distribution facility for Canadian manufacturers and major Canadian retailers, Distribution Centre Manager for Martin Brower of Canada (distributor for McDonald's Restaurants of Canada), and with Coca-Cola Bottling Co. He has an extensive supply chain management background with direct experience in the key activities along the supply chain, culminating in direct waste management industry experience.



Mike Lannin

Mike Lannin has been working in the waste industry in varying capacities for nearly 20 years. He is currently a manager at Super Save Group, a private waste hauling organization. Mike joined the IAC as an opportunity to learn

more about the issues surrounding the solid waste industry in the area currently, and to contribute to the ongoing development of the industry going forward.



Patrick MacNeil

Patrick MacNeil is an advocate for recycling and environmentally conscious waste handling procedures and policies that are feasible and long term minded. Patrick has worked in the waste and recycling industry for 19 years.

Patrick joined the IAC to help form policy that will have a beneficial outcome for generations to come.



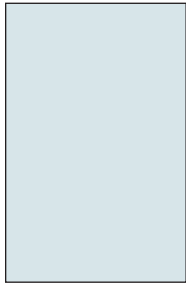
Pinky Vargas

In 2021 Pinky Vargas joined Republic Services. Prior to joining the company, Pinky worked for Washington energy utilities for 14 years, on Energy Efficiency, Community Outreach, and Account Management. Pinky also served

on Bellingham City Council for eight years and completed their term in December 2021. Pinky has extensive experience in project and account management and working with government entities on a host of issues. Pinky was born and raised in Canada and moved to the United States 24 years ago. Pinky holds a Bachelor of Science Degree in Business Management and has training in mediation and negotiation.

Pinky has been actively involved in conservation and sustainability for over 15 years. Managing our waste sustainably and responsibly is a critical issue in our world today and Pinky is compelled to be part of the solution. Pinky enjoys working among those who have the greatest impact and helping each other come to solutions for the long term. It is Pinky's personal purpose to lead local communities in environmental solutions and advocate for a circular economy, effective government, economic development, social justice, women's equality, outdoor recreation, wellness, and a good quality of life.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024

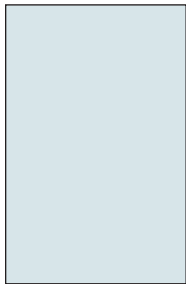


Ralph McRae

Ralph McRae is the Chairman & CEO of Revolution and a participant in the waste and recycling industry in Metro Vancouver for 35 years. Ralph has been involved in solid waste collection and disposal, ICI recycling, composting, construction

and demolition materials processing and the production of alternate fuels.

Ralph joined the IAC to improve the management of solid waste in the region and bring fiscal accountability to the process.

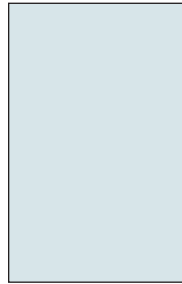


Sandy Sigmund

Sandy Sigmund is Vice President Development & Chief Marketing Officer of Encorp Pacific Canada. She has been a senior executive with Encorp since its inception in 1995 and leads the stewardship agency's marketing,

communications and program development efforts. Prior to Encorp, Sandy had an extensive career in retail management specializing in sales, marketing, and merchandising. Sandy is the Past President of the board for the Ridge Meadows Recycling Society and serves on the management board of the National Zero Waste Council.

As Encorp strives to increase the recovery and recycling rate for the obligated products under the stewardship plan we continuously search for new and innovative ways to collaborate and partner with others in the industry.



Sean Kawakami

Sean is the Business Development Manager for Convertus Group who specialize in the design, construction, finance, and operation of organic waste processing facilities. Convertus operates 12 facilities in Canada, notably

including the Nanaimo Circular Waste BC and Surrey Biofuel sites. Sean started in the industry with Rehrig Pacific and his experience in supply, collection and processing affords him a unique perspective of the solid waste industry in our province.

As a resident of the lower mainland and a solid waste professional, contributing to the long-term success of the solid waste industry in the region is important to Sean on numerous levels. Sharing information from different stakeholders on the committee can help manage the unique challenges of solid waste in our region and it is the best way to ensure industry and government are working together to develop a sustainable plan for our future.

Solid Waste and Recycling Industry Advisory Committee – Member Biographies 2024



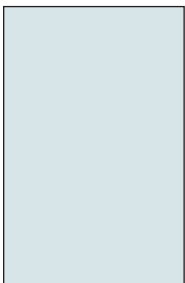
Shad Prasad

With over 30 years in the logistics/ warehousing industry, Shad Prasad has seen a large amount of waste. Shad is driven to change habits and approach to recycling by educating people on available recycling alternatives through

awareness and education.

Shad is the Plant Manager for Cascades Recovery +, Vancouver and Surrey, where the company is involved in recycling fibre from commercial facilities throughout the lower mainland. Cascades Recovery + is committed to reducing fibre waste entering the landfills.

Shad joined the IAC to gain knowledge on future recycling goals and initiatives and how he can contribute to a greener community.



Stewart Young

Stewart Young has 20 years of experience in the waste industry as a second-generation industry professional. He grew up working all aspects of the family business until taking over as Vice President of Alpine Disposal and Recycling

until its acquisition by GFL in 2019. He was recognized for his dedication and hard work in 2015 when he was awarded the Top 20 Under 40 Business Award. Stewart is now the Regional Vice President of Solid Waste for GFL Environmental in BC. He is also co-owner of SKY Environmental and owner of Altitude Management.

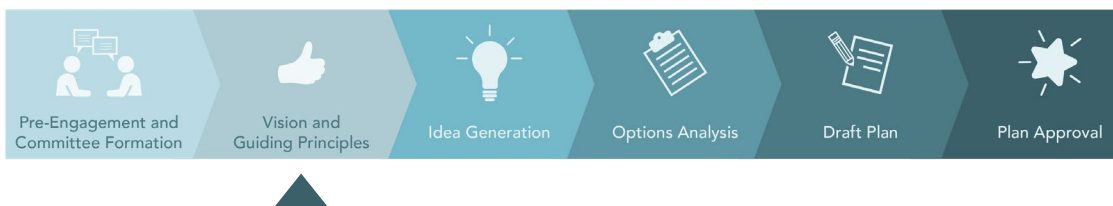
Stewart joined the IAC to help contribute to the development of effective waste and recycling management strategies in Metro Vancouver.

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.

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

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

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 – Waste Management Association of BC
 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 +
 Terryl Plotnikoff – Canadian Mattress Recycling Inc.

SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE 2024 WORK PLAN

March 5, 2024

Quarter 1	Status	Approach
Call for Submissions for 2024 IAC Membership	Complete	Plenary
Concrete and Asphalt Recycling Review – Draft Study Scope	Complete	Plenary
Construction and Demolition Waste Management and Capacity	In progress	Small group discussion
<i>Integrated Solid Waste and Resource Plan</i> Biennial Report	In progress	Plenary
Residuals Management Options Review – Draft Study Scope	Complete	Plenary
Quarter 2	Status	Approach
Circular Economy and Share/Reuse/Repair ideas	Pending	Small group discussion
Co-Chair Election (Nominations in March)	Pending	Plenary
Prioritize timeline for solid waste management plan development	Pending	TBD
Residuals Management: <ul style="list-style-type: none"> - Vancouver Landfill/Long-term disposal planning - Competition - Generator Levy - Contingency Disposal Procurement - Metro Vancouver Capital Budget 	Pending	Working sub-group meetings
Solid Waste Management Plan Update – Idea Generation: Issue/Opportunity Report Review	Pending	Small group discussion
Solid Waste Management Plan Update – Vision and Guiding Principles Report Back	Pending	Plenary
Quarter 3	Status	Approach
Public Education – role of public and private entities	Pending	TBD
Recycling capacity and product markets (including organics)	Pending	Small group discussion
Quarter 4	Status	Approach
Recycling Statistics/Metrics	Pending	Plenary
Solid Waste Management Plan Update – Idea Generation	Pending	Small group discussion
Working Sub-Group Report Back	Pending	Plenary

DRAFT Solid Waste and Recycling Industry Advisory Committee Residuals Management Working Group Terms of Reference

April 9, 2024

1. PURPOSE

The purpose of the Solid Waste and Recycling Industry Advisory Committee (IAC) residuals management working group is to provide an opportunity for industry representatives to provide input on residuals management and long-term disposal planning.

The working group will meet separately from regular IAC meetings, to allow space for deeper discussion and to work towards potential solutions for residuals management topics that have been raised by committee members.

2. SCOPE OF WORK

The working group will focus on specific solid waste topics identified by the IAC committee members at previous meetings. These topics are related to long-term waste planning in the region and the solid waste management plan and are of special consideration to industry representatives. Topics include:

- Long-term disposal planning
- Competition
- Generator levy
- Procurement
- Capital budget

Additional topic areas could be considered as they arise and as agreed to by working group members and supported by the Co-Chairs.

Metro Vancouver staff will provide the working group with presentations, and answer questions, related to these topics to provide background information and assist in the group members understanding of the items. The working group members or third-party experts invited by the committee may also provide presentations on specific topics.

The agenda and format of each meeting will be determined by the working group Co-Chairs with input from working group members.

3. TIMEFRAME

The working group will meet regularly over the coming months until the Co-Chairs in consultation with working group members have concluded that the topics identified for the group have been adequately addressed. Updates as well as conclusions and potential next steps from the working group will be provided by the Co-Chairs to the IAC membership at regular IAC meetings.

4. MEMBERSHIP

Participation in the working group is optional and open to any current members of the IAC. *Working group members are permitted to send alternate representatives if they are unable to attend a*

meeting, members must provide advance written notice to the Co-Chairs advising the name and position title of their alternate. OR Attendance at the working group meetings is for working group members only, alternates representatives are not permitted. There is no limit to the number of members the working group can have. The working group membership will be developed through call for interest in participating in the working group. The membership will be finalized before the first meeting of the working group.

The working group will meet separately from the regular IAC committee meetings.

5. CO-CHAIRS

The IAC Co-Chairs will lead the working group meetings, provide updates at the regular IAC meetings as well as the final conclusions and potential next steps the working group comes to.

6. MEETINGS

- a. It is expected that the working group will meet 4-5 times, but the working group can decide on the frequency and number of meetings.
- b. Meetings can be held virtually or in person and will be determined by working group members.
- c. Metro Vancouver staff will provide administrative and technical support (i.e. setting up online meetings, sending out email information, assisting with drafting agendas, and noting action items).
- d. Agendas will be posted publically on the IAC website in advance of the working group meetings.
- e. Updates from the working group will be provided by the Co-Chairs at regular IAC meetings.
- f. Meetings are open to the public as well as any IAC members who are not a member of the working group and will be livestreamed on the IAC webpage.
- g. Meeting minutes and other information will be posted publically to the IAC webpage.

7. APPLICABILITY OF THE SOLID WASTE AND RECYCLING INDUSTRY ADVISORY COMMITTEE TERMS OF REFERENCE

The following elements of the Solid Waste and Recycling Industry Advisory Committee terms of reference also apply to the committee working group:

- Expectation of Members
- Conflicts of Interest
- Chairs
- Code of Conduct
- Membership Dismissal
- Budget and Resources
- Media Protocol

Reference:

[Solid Waste and Recycling Industry - Advisory Committee - Terms of Reference \(metrovancover.org\)](https://www.metrovancover.org/solid-waste-and-recycling-industry-advisory-committee-terms-of-reference)