

**METRO VANCOUVER REGIONAL DISTRICT
ZERO WASTE COMMITTEE**

REGULAR MEETING

**Friday, July 16, 2021
9:00 a.m.**

28th Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia

A G E N D A¹

1. ADOPTION OF THE AGENDA

1.1 July 16, 2021 Regular Meeting Agenda

That the Zero Waste Committee adopt the agenda for its regular meeting scheduled for July 16, 2021 as circulated.

2. ADOPTION OF THE MINUTES

2.1 May 14, 2021 Regular Meeting Minutes

pg. 4

That the Zero Waste Committee adopt the minutes of its regular meeting held May 14, 2021 as circulated.

3. DELEGATIONS

3.1 Tom Land, President & CEO and Christian Dietrich, General Manager, Ecowaste Industries Ltd.

pg. 9

Subject: Extending the term and capacity of the Ecowaste Landfill

4. INVITED PRESENTATIONS

5. REPORTS FROM COMMITTEE OR STAFF

5.1 Pre-Engagement Results – Solid Waste Management Plan Update

pg. 11

That the Zero Waste Committee receive for information the report dated July 8, 2021, titled “Pre-Engagement Results – Solid Waste Management Plan Update”.

5.2 Solid Waste and Recycling Industry Advisory Committee Draft Terms of Reference

pg. 118

That the GVS&DD Board receive for information the report dated July 9, 2021, titled “Solid Waste and Recycling Industry Advisory Committee Draft Terms of Reference”.

¹ Note: Recommendation is shown under each item, where applicable.

- 5.3 Solid Waste Services Capital Program Expenditure Update as of April 30, 2021** *pg. 129*
That the Zero Waste Committee receive for information the report dated July 8, 2021, titled "Solid Waste Services Capital Program Expenditure Update as of April 30, 2021".
- 5.4 Draft Solid Waste Services 2022 – 2026 Capital Plan** *pg. 136*
That the Zero Waste Committee receive for information the report dated July 8, 2021, titled "Draft Solid Waste Services 2022 – 2026 Capital Plan".
- 5.5 Sea to Sky Soils Organics Management Contract** *pg. 141*
That the GVS&DD Board receive for information the report dated July 9, 2021, titled "Sea to Sky Soils Organics Management Contract".
- 5.6 Waste-to-Energy Facility 2020 Financial Update** *pg. 144*
That the Zero Waste Committee receive for information the report dated July 8, 2021, titled "Waste-to-Energy Facility 2020 Financial Update."
- 5.7 2021 Regional Clothing Waste Reduction Campaign Results** *pg. 147*
That the Zero Waste Committee receive for information the report dated May 19, 2021, titled "2021 Regional Clothing Waste Reduction Campaign Results".
- 5.8 Update on Metro Vancouver's Engagement with the Love Food Hate Waste Canada Campaign** *pg. 157*
That the Zero Waste Committee receive for information the report dated May 19, 2021, titled "Update on Metro Vancouver's Engagement with the Love Food Hate Waste Canada Campaign."
- 5.9 Manager's Report** *pg. 169*
That the Zero Waste Committee receive for information the report dated July 9, 2021, 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 regular meeting scheduled for July 16, 2021 pursuant to the *Community Charter* provisions, Section 90 (1) (g) as follows:

- "90 (1) A part of the 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 regional district".

10. ADJOURNMENT/CONCLUSION

That the Zero Waste Committee adjourn/conclude its regular meeting of July 16, 2021.

Membership:

Froese, Jack (C) - Langley Township
Hodge, Craig (VC) - Coquitlam
Calendino, Pietro - Burnaby
Elford, Doug - Surrey

Fathers, Helen - White Rock
Fry, Pete - Vancouver
Little, Mike - North Vancouver District
Martin, Gayle - Langley City

McDonald, Bruce - Delta
Morden, Mike - Maple Ridge
Steves, Harold - Richmond
Vagramov, Rob - Port Moody

**METRO VANCOUVER REGIONAL DISTRICT
ZERO WASTE COMMITTEE**

Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Zero Waste Committee held at 9:00 a.m. on Friday, May 14, 2021 in the 28th Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia.

MEMBERS PRESENT:

Chair, Mayor Jack Froese*, Langley Township
 Vice Chair, Councillor Craig Hodge*, Coquitlam
 Councillor Pietro Calendino*, Burnaby
 Councillor Doug Elford*, Surrey (arrived at 9:04 a.m.)
 Councillor Helen Fathers*, White Rock
 Councillor Pete Fry*, Vancouver
 Mayor Mike Little*, North Vancouver District (arrived at 9:20 a.m.)
 Councillor Gayle Martin*, Langley City
 Councillor Bruce McDonald*, Delta
 Mayor Mike Morden*, Maple Ridge (arrived at 9:01 a.m.)
 Councillor Harold Steves*, Richmond
 Mayor Rob Vagramov, Port Moody (arrived at 9:15 a.m.)

MEMBERS ABSENT:

None.

STAFF PRESENT:

Paul Henderson, General Manager, Solid Waste Services
 Amelia White, Legislative Services Coordinator, Board and Information Services

1. ADOPTION OF THE AGENDA

1.1 May 14, 2021 Regular Meeting Agenda

It was MOVED and SECONDED

That the Zero Waste Committee adopt the agenda for its regular meeting scheduled for May 14, 2021 as circulated.

CARRIED

9:01 a.m. Mayor Morden arrived at the meeting.

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

2. ADOPTION OF THE MINUTES

2.1 April 16, 2021 Regular Meeting Minutes

It was MOVED and SECONDED

That the Zero Waste Committee adopt the minutes of its regular meeting held April 16, 2021 as circulated.

CARRIED

3. DELEGATIONS

No items presented.

4. INVITED PRESENTATIONS

No items presented.

5. REPORTS FROM COMMITTEE OR STAFF

5.1 GVS&DD Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 348, 2021

Report dated May 7, 2021, from Allen Jensen, Project Engineer, Solid Waste Services seeking the GVS&DD Board approval to amend the Tipping Fee Bylaw to update the disposal sites in Schedule "A".

9:04 a.m. Councillor Elford arrived at the meeting.

It was MOVED and SECONDED

That the GVS&DD Board:

- a) approve the following amendments to the Tipping Fee Bylaw effective June 1, 2021:
 - i. update the municipal solid waste disposal facilities listed in Schedule "A" to include United Boulevard Recycling and Waste Centre and replace the term Transfer Station with Recycling and Waste Centre in the facility names;
- b) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 348, 2021*; and
- c) pass and finally adopt *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 348, 2021*.

CARRIED

5.2 Regional Harmonization of Single-Use Item Reduction Bylaws

Report dated May 7, 2021, from Karen Storry, Senior Engineer, Solid Waste Services seeking GVS&DD Board direction for Metro Vancouver to develop a recommended standard for municipal single-use item bylaws.

Members were provided a presentation on developing a regional standard for reducing single-use items.

9:15 a.m. Mayor Vagramov arrived at the meeting.

9:20 a.m. Mayor Little arrived at the meeting.

Presentation material titled “Developing a Recommended Standard: For Single-Use Item Reduction Bylaws” is retained with the May 14, 2021 Zero Waste Committee agenda.

It was MOVED and SECONDED

That the GVS&DD Board direct staff to collaborate with member jurisdictions, the B.C. Ministry of Environment and Climate Change Strategy and other stakeholders on the development of a standard for municipal single-use item reduction bylaws for the Board’s consideration.

CARRIED

5.3 2021 Food Scraps Recycling Campaign Results

Report dated April 9, 2021, from Larina Lopez, Division Manager, Corporate Communications, External Relations updating the Zero Waste Committee on the results of the 2021 regional food scraps recycling campaign, “Food Scraps Aren’t Garbage.”

Members were provided with a presentation on the results from the *Food Scraps Aren’t Garbage* campaign.

Presentation material titled “Food Scraps Aren’t Garbage: Results” is retained with the May 14, 2021 Zero Waste Committee agenda.

It was MOVED and SECONDED

That the Zero Waste Committee receive for information the report dated April 9, 2021, titled “2021 Food Scraps Recycling Campaign Results”.

CARRIED

5.4 Manager’s Report

Report dated May 6, 2021, from Paul Henderson, General Manager, Solid Waste Services providing an update on the Solid Waste Management Plan Pre-Engagement Launched, Update on Central Surrey Construction, UBC Bottom Ash Study, Waste-to-Energy Facility Ambient Air Monitoring and 2021 Zero Waste Committee Work Plan.

Members were provided with a presentation on the construction of the Central Surrey Recycling and Waste Centre.

Presentation material titled “Central Surrey Recycling and Waste Centre: Construction Project Update” is retained with the May 14, 2021 Zero Waste

Committee agenda. Members were also shown a related video, which is not retained with the agenda.

Members were provided with a presentation on the waste-to-energy facility air monitoring.

Presentation material titled "Waste-to-Energy Facility Ambient Air Monitoring" is retained with the May 14, 2021 Zero Waste Committee agenda.

It was MOVED and SECONDED

That the Zero Waste Committee receive for information the report dated May 6, 2021, titled "Manager's Report".

CARRIED

6. INFORMATION ITEMS

6.1 National Zero Waste Council Annual Update

It was MOVED and SECONDED

That the Zero Waste Committee receive for information the report dated April 30, 2021 titled "National Zero Waste Council Annual Update".

CARRIED

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 regular meeting scheduled for May 14, 2021 pursuant to the *Community Charter* provisions, Section 90 (1) (e) and (k):

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

(e) the acquisition, disposition or expropriation of land or improvements, if the board or committee considers that disclosure could reasonably be expected to harm the interests of the regional district; and

(k) negotiations and related discussions respecting the proposed provision of a regional district service that are at their preliminary stages and that, in the view of the board or committee, could reasonably be expected to harm the interests of the regional district if they were held in public".

CARRIED

10. ADJOURNMENT/CONCLUSION

It was MOVED and SECONDED

That the Zero Waste Committee adjourn its regular meeting of May 14, 2021.

CARRIED

(Time: 9:53 a.m.)

Amelia White,
Legislative Services Coordinator

Jack Froese, Chair

45609413 FINAL



100 - 3031 Viking Way,
Richmond, BC, Canada
V6V 1W1

T (604) 276-9511
F (604) 270-4185

June 7, 2021

Metro Vancouver Zero Waste Committee
Board & Information Services
4730 Kingsway
Burnaby, BC V5H 0C6

delegations@metrovancover.org

To Whom this May Concern:

RE: Application to speak to Metro Vancouver Zero Waste Committee Meeting

Please accept this letter and information herewith as our application to present to the Metro Vancouver Zero Waste Committee on Friday July 16, 2021.

Contact Information:

Janice Murray, Executive Assistant
Ecowaste Industries Ltd.
Direct: 236-454-2642

Email: jmurray@montroseproperties.com

Presenters:

Tom Land, President & CEO

Christian Dietrich, General Manager

Committee:

Zero Waste Committee

Meeting Date:

Friday July 16, 2021

Subject of Presentation:

Extending the term and capacity of the
Ecowaste Landfill

Action for the Committee:

Support our efforts of extending the life of the landfill by pushing for a timely correction of the Agriculture Land Reserve Regulation prohibiting the use of construction and demolition fill on landfills in the Agricultural Land Reserve.

Support for the vertical expansion of the landfill with the City of Richmond, Agricultural Land Commission and the Ministry of the Environment

Summary of the presentation

Our presentation to the committee will cover the following points:

- a. Ecowaste Landfill, ALR non-farm use permit
- b. ALR Regulation change and prohibited materials
- c. Remaining Landfill life
- d. Impacts on planning of Materials Recycling Facility (MRF)
- e. Future benefits to the region of maintaining the Ecowaste facilities

If you have any questions, please do not hesitate to contact the undersigned. Thank you for considering our application and we look forward to your response.

Yours truly,



Janice Murray
Executive Assistant
Ecowaste Industries Ltd.

To: Zero Waste Committee

From: Stephanie Liu, Public Engagement Coordinator, Strategy and Stakeholder Relations,
Solid Waste Services

Date: July 8, 2021 Meeting Date: July 16, 2021

Subject: **Pre-Engagement Results – Solid Waste Management Plan Update**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated July 8, 2021, titled “Pre-Engagement Results – Solid Waste Management Plan Update”.

EXECUTIVE SUMMARY

Public engagement is critical in the development of an updated solid waste management plan. To deliver a robust engagement process that goes beyond Metro Vancouver’s typical process, exceeds provincial requirements, and addresses previous concerns about engagement, a pre-engagement phase was introduced to help shape the engagement process. In addition, an Independent Consultation and Engagement Panel was formed to guide development and implementation of engagement, and Metro Vancouver will be engaging on the development of provincially required public and technical advisory committee(s).

Metro Vancouver received feedback from over 350 individuals via questionnaire responses, presentations, written submissions, meetings with staff, and presentations to the Solid Waste Management Plan Independent Consultation and Engagement Panel. Two entities that presented to the panel expressed concern about the presentation process, and a second opportunity to present to the panel was provided. Feedback indicated support for online and in person engagement opportunities including sector-specific discussions and early, continuous, and iterative opportunities to provide feedback.

Staff will report back later in the year with a proposed engagement program as well as the proposed structure and selection criteria for the public and technical advisory committee(s).

PURPOSE

The purpose of this report is to provide the Zero Waste Committee with an overview of feedback received during the pre-engagement phase of the solid waste management plan update process as well as next steps in the engagement process.

BACKGROUND

In November of 2019, the GVS&DD Board (the 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 guidelines to initiate a plan review before the 10-year anniversary of the current plan’s approval.

On July 3, 2020, the Board received for information the terms of reference for the Solid Waste Management Plan Independent Consultation and Engagement Panel (Consultation and Engagement Panel) – a panel of four engagement experts to guide the development and implementation of a robust and inclusive engagement process. The establishment of this panel is a new process for Metro Vancouver and is beyond the committees required by the Province. The panel convened in October 2020 and has met approximately monthly to discuss engagement best practices and goals, and to advise on the design of engagement on the solid waste management plan update. Throughout the two to three-year plan development process, the panel will advise on engagement implementation. A summary of panel meetings to date is found in Attachment 1. Pre-engagement was developed and implemented with the panel’s guidance.

This report outlines the feedback received during pre-engagement, and this information will be used to inform a draft public engagement program that will be brought to the Board later this year.

PRE-ENGAGEMENT ON THE SOLID WASTE MANAGEMENT PLAN UPDATE

The public pre-engagement phase of the regional solid waste management plan update ran from April 27 to May 28, 2021, with Indigenous pre-engagement extending to July 2 in alignment with Metro Vancouver’s Crown Regulatory Engagement process. The goals of pre-engagement were to learn about preferred communication channels, methods of participation, information needs, and what can be done to facilitate participation among a broad range of audiences in future phases. Engaging at this early stage is critical to a robust and transparent engagement program that is responsive to the needs of various audiences. Pre-engagement feedback will shape a multi-phased engagement program on the solid waste management plan update.

Audiences had opportunities to provide feedback by completing an online questionnaire, meeting with staff or a consultant online or by phone, and presenting to the Consultation and Engagement Panel. Key audiences included governments, including Indigenous Nations, regulatory agencies, the waste and recycling industry, waste producers, industry and business associations, community groups, environmental and non-profit groups, and Metro Vancouver residents.

Indigenous Pre-engagement

In parallel, Metro Vancouver initiated pre-engagement on the solid waste management plan update with potentially impacted Indigenous Nations, to learn how Nations wish to participate, what their values and priorities are, and what their interests are in relation to waste reduction, recycling and economic development. The intent is to use these learnings to collaboratively develop an Indigenous engagement strategy. Pre-engagement letters were sent to 10 First Nations with reserves or treaty lands within Metro Vancouver, 23 First Nations whose territories encompass all or part of Metro Vancouver, and the Métis Nation of British Columbia. The letters introduced the project, provided background information and offered opportunities to provide feedback via a meeting, online questionnaire or email. An email with background about the project and a link to the questionnaire was also sent to 17 urban Indigenous organizations within the region.

Metro Vancouver received feedback from four First Nations, including requests for capacity funding, and concerns raised about litter and garbage in rivers and waterways.

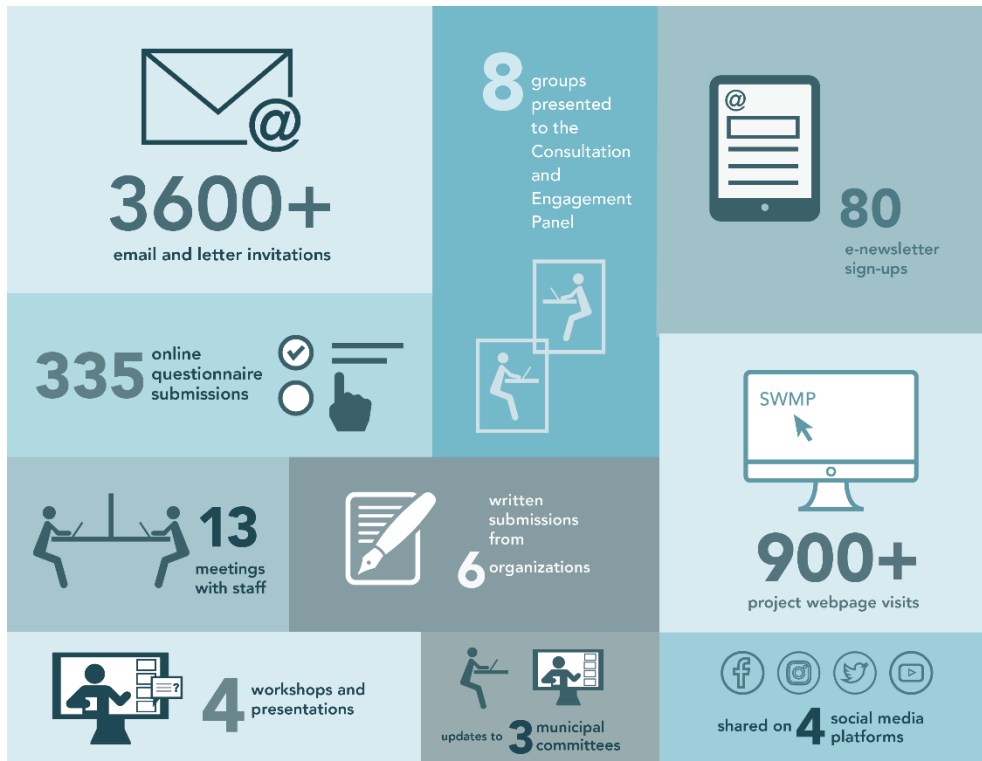
Public Pre-Engagement – Notifications Sent

At the start of pre-engagement, a project web page was launched and notifications sent to a broad range of audiences. Copies of email and letter notifications are found in Attachment 1.

- Letters were sent to Metro Vancouver member municipalities, adjacent regional districts, and Indigenous Nations.
- Emails were sent to over 3,600 contacts interested in receiving updates on Metro Vancouver solid waste topics or identified as being potentially impacted by the solid waste management plan. An additional follow-up email was sent to Boards of Trade and Chambers of Commerce in the region, and 27 organizations were sent a follow-up email to request meetings or interviews with staff.
- A social media promotion targeted residents and businesses in the Metro Vancouver region, and where possible, those interested in the environment and civic engagement, during the first and final weeks of the four-week pre-engagement period. The promotion during the final week resulted in 180 additional questionnaire submissions, with 97% of these responding on behalf of their household (as opposed to their organization). This demonstrates the effectiveness of social media to reach households and individual residents. Click-through rates were strong for Facebook (4.33%) and LinkedIn (3.11%). Social copy and creative assets were shared with member jurisdictions for their assistance in promoting the project.
- Website promotion included Metro Vancouver’s home page, various solid waste related pages, and events page.

Summary of Participation

The following graphic displays a summary of pre-engagement through a variety of methods.



In addition to hearing from stakeholders and governments within the region, Metro Vancouver was invited to present to the Fraser Valley Regional District Board. The Metro Vancouver Chief Administrative Officer, Zero Waste Committee Chair, and the chair of the Consultation and Engagement Panel provided a presentation and engaged in a question and answer period. The Fraser Valley Regional District provided feedback on preferred communication and engagement channels, and followed up with a letter requesting clarity on waste-to-energy plans and potential impacts of the solid waste management plan to neighbouring regional districts (Attachment 2). Metro Vancouver provided the following information with respect to plans for future waste-to-energy:

Metro Vancouver considers waste-to-energy to be a cost effective and environmentally sustainable way to manage residual garbage. Metro Vancouver's solid waste management plan update will focus on reduction, reuse, recycling and advancement of the circular economy. Our goal as a region is to avoid the requirement for any new disposal capacity, waste-to-energy or otherwise, through the success of our waste reduction actions.

The full Metro Vancouver response is included in Attachment 2. Metro Vancouver will continue to engage with the Fraser Valley Regional District and other adjacent regional districts throughout the plan development process.

Who We Heard From

During the pre-engagement phase, Metro Vancouver heard from organizations representing a variety of sectors potentially impacted by the solid waste management plan, listed below.

Sectors Providing Feedback During Pre-engagement	
Industry / Manufacturing	Tourism
Education and Post-Secondary	Government
Youth organization	Property Management
Environmental NGO	Non-governmental Organizations / Non-profits
Waste and Recycling Industry	Construction Industry
Retailer	Board of Trade / Chamber of Commerce / Business Improvement Association
Property Management	

In addition to the sectors listed above, Metro Vancouver heard from hundreds of residents/households, as described in the online questionnaire results section below. Attachment 1 documents all organizations, their sectors, and method(s) of participation.

Sector gaps

In addition to the broad call for feedback, 27 organizations representing key sector audiences were sent a follow-up request to participate in a meeting with staff. One or more organizations representing each of the following sectors met with Metro Vancouver staff:

- Academic Institutions / Post-Secondary
- Environmental NGO
- Property Management
- Waste and Recycling Industry
- Binner community

- Retail
- Tourism
- Youth
- Industry/Manufacturing (meetings requested by stakeholders)

Organizations representing the following sectors or community groups were invited to meet with staff but declined or did not respond. Note that some of these sectors did provide feedback via other mechanisms:

- Non English language speakers
- Cultural societies
- Small business
- Food service
- Construction and demolition
- Multi-family residences
- Resident community associations

Organizations that submitted online questionnaire responses primarily represented the waste and recycling industry and local government, followed by non-governmental organizations / non-profits. Few responses were submitted by the property management, industry/manufacturing, retailer, Board of Trade / Chamber of Commerce / BIA, Construction Industry, and Education sectors. No questionnaires were submitted by crown corporations, health authorities or medical facilities, seniors associations, youth associations, restaurant / food industry / grocery, or the accommodation sector. Respondents submitting questionnaires on behalf of their household were primarily from the City of Vancouver.

These learnings will be used to develop multi-phased engagement that includes strategies to reach out to less engaged sectors and work towards a more balanced geographical representation across the region, with the goal of designing and delivering a comprehensive engagement program that exceeds Metro Vancouver's typical process and provincial requirements.

Summary of Pre-Engagement Feedback

Stakeholders, including those who may have had previous concerns about engagement processes, were very supportive of the early pre-engagement phase and the establishment of the Consultation and Engagement Panel, demonstrating the importance and success of taking these early steps to shape a robust engagement program.

Several themes emerged through pre-engagement feedback as highlighted below. A table summarizing all feedback is in Attachment 1.

Engagement approach:

- early, continuous, and iterative opportunities to provide feedback
- clearly defined engagement purpose and expectations, and respect for the time required of busy stakeholders
- sufficient time allowed to gather and submit feedback
- more notifications and reminders to avoid missed messages
- transparency on how input is used, and factors considered when coming to a final decision
- collaboration with others to host engagement events and amplify communications

- fair and collaborative engagement that fosters active listening and an open mind, without pre-determined outcomes, thereby building or rebuilding trust among stakeholders and sectors

Engagement methods:

- a variety of online and in-person engagement opportunities
- focused, sector-specific discussions
- space for stakeholders with different interests to hear from each other, gain understanding of different perspectives, and form partnerships
- consider introducing incentives to encourage participation, and meeting audiences not typically engaged at their places of work/business, school, community, gathering places
- leverage existing committee and community group meetings (e.g. municipal and youth)

Language:

Note this feedback was given in English, in response to Metro Vancouver’s notifications and information also provided in English

- English language communication is sufficient at this time (indicated by the majority of feedback)
- some requests for translation and support for the use of graphics
- some support for simplifying information, and other support for maintaining the complexity of concepts and options

Audiences:

Feedback included many suggestions for sector-specific contacts or organizations that should be included in future engagement on the solid waste management plan update. These contacts have been included in notify lists for future phases of engagement, and will be considered as future phases of engagement are designed. Some general categories that were highlighted included the following:

- equity-denied communities
- range of industry experts, including experts in new technology
- innovators
- small to medium businesses
- small haulers and small processing facilities
- associations: industry, tourism, building, business improvement Industry associations

Information required before providing feedback on solid waste management topics:

- accurate objective facts and data, including recycling and waste diversion statistics, as a foundation for conversations about the updated plan
- current solid waste management plan background
- existing solid waste systems and facilities (for collection and processing)
- trends in commodities markets
- fate of waste and recycling after it is collected
- private and public sector involvement in the waste and recycling system
- success stories of businesses and organizations
- who is responsible for solid waste management and zero waste policy, including the specific role of Metro Vancouver

- when presenting options, provide the impact of these options (e.g. financial and environmental)
- solid waste management challenges, including specific materials or sources that are difficult to recycle, reduce, or reuse
- global best practices
- latest research and new technologies
- specific scope of the solid waste management plan review (i.e. key topics and issues under consideration)

Solid waste areas of interest:

Areas of interest emerged through the pre-engagement process and are summarized in Attachment 1; these can be drawn upon when considering how to shape and design future phases of engagement on the content of the updated solid waste management plan.

Online questionnaire results:

While the summary of feedback above does incorporate learnings from online questionnaire responses, it is of interest to highlight a few unique details and insights provided by the questionnaire.

Metro Vancouver received 335 responses to the online questionnaire, predominantly from residents responding on behalf of their households (85%). Out of 50 that responded on behalf of their business or organization, the largest sector categories were the waste and recycling industry with 14 responses, and local government, government agencies and ministries with 11 responses. 79% of all respondents preferred email as a means of receiving information and updates on the solid waste management plan update process. This was followed by social media, notices in news media, and online presentations or meetings. 78% of all respondents preferred to provide feedback online via a questionnaire. This was followed by email, online comment sections, and online meetings or webinars.

Generally, feedback on preferred communication channels was similar between those responding on behalf of their household or organization, with email and online questionnaires being well supported. Note that for receiving information, organizations were more likely to prefer email and online presentations and meetings, whereas households were more likely to prefer social media and news media.

It is worth noting that these preferences represent the opinions of those who submitted feedback via an online questionnaire; therefore, the preferences for online engagement methods is understandable. Full questionnaire results are presented in Attachment 1.

Presentations to the Consultation and Engagement Panel

Eight stakeholder groups requested to speak with the Consultation and Engagement Panel. Participant groups were provided 10 minutes each to speak with the panel, including an introduction from the panel, presentation from the participant, and follow-up questions as time allowed. Three participants provided PowerPoint presentations, included in Attachment 1.

Two participants expressed concerns about the limited time provided for presenting to the panel, and miscommunication about how much time would be allotted. Both provided written submissions, included as the last two letters in Attachment 2. Recognizing the easy misinterpretation of meeting

instructions/time allotted, and unanticipated challenges that arose due to the online format, the Consultation and Engagement Panel offered all participants in the first round of meetings an additional opportunity to present to the panel. The two stakeholder groups expressing concerns participated in this additional opportunity. Following the additional presentation opportunity, the two stakeholder groups were sent follow-up emails inviting additional written feedback.

Opportunities will be provided for stakeholders to speak with the panel in each subsequent engagement phase of the solid waste management plan update. In response to feedback received, future opportunities will be designed to allow adequate time for stakeholders to present to the panel, and steps will be taken to ensure instructions and expectations are very clear at the outset to avoid misinterpretation.

Feedback from Consultation and Engagement Panel

Below is feedback provided directly by the Consultation and Engagement Panel on the design and implementation of the pre-engagement phase.

The Solid Waste Management Plan Independent Consultation and Engagement Panel was pleased by Metro Vancouver's decision to have a pre-engagement phase as part of the solid waste management plan update. Our observation was that stakeholders also very much appreciated this effort and that it may be an effective practice for Metro Vancouver on all large plan updates to help build trust and reinforce a tone of an open and transparent engagement process.

During the pre-engagement phase, the panel provided feedback and suggestions to staff for approaches to pre-engagement on both the public and Indigenous engagement strategies as well as connections to stakeholders in a variety of communities, especially those that are traditionally not well-represented in engagement on Metro Vancouver policy development. We also met with stakeholders that wanted to present to the panel, and our panel Chair was part of the Metro Vancouver delegation requested by the Fraser Valley Regional District.

We substantially agree with the points that staff have made in their report on pre-engagement to the Zero Waste Committee. A few things that we would particularly highlight for reflection:

- There is a trust deficit with some stakeholders. Ensuring the objectivity of how information is presented, and providing timely updates and access to information to allow stakeholders ongoing opportunities to provide additional input, will be important throughout the solid waste management plan update engagement process. We expect that contemplated committees, including the Industry Advisory Committee along with the provincially required public and technical advisory committee(s), will also play a key role.
- The pre-engagement process saw very little participation from what Metro Vancouver has defined as equity-denied groups. This gives a good sense of the limits of relying on the usual distribution channels and speaks to the need for new and novel tactics in the solid waste management plan update engagement strategy to ensure that these communities are reached.
- Engagement with Indigenous Nations and peoples will be a dynamic process as relationships evolve and deepen, and the expectations of new provincial legislation

are more fleshed out. The provincial government's recently released *Declaration on the Rights of Indigenous Peoples Act (DRIPA)* Draft Action Plan provides some emerging guidance to reflect on moving forward.

Public and Technical Advisory Committee(s)

Metro Vancouver will be convening individuals with relevant personal qualities and experiences to sit on public and technical advisory committee(s) for the solid waste management plan update, as required by provincial guidelines. The guidelines allow separate committees or a single combined committee. Committee members will have lived or technical experience related to reducing waste and advancing the circular economy and/or waste management in general, and members will be selected following an open call for applications. Engagement with Indigenous Nations and communities is expected to be coordinated through a parallel, collaborative process.

Consistent with Metro Vancouver's efforts to be fully transparent and consider as many perspectives as possible throughout the solid waste management plan development process, Metro Vancouver will engage on the structure and membership selection criteria of the committee(s) prior to initiating the call for applications.

A questionnaire will be issued to seek input on whether there be a single combined committee or separate technical and public committees, what sectors and interests should be represented on the committee(s), and what personal qualities and experience members should have, as described below. Stakeholders will also be invited to provide written feedback in addition to or instead of completing the questionnaire. The final criteria for selection of committee(s) members will be brought to the Zero Waste Committee and Board for consideration, and individual members will be recommended to the Zero Waste Committee and Board in a closed meeting following review of applications.

The following is an initial list of sectors/interests that could be represented by committee(s) members:

- Adjacent regional district elected official
- Circular economy
- Construction and demolition industry
- Extended producer responsibility programs
- Food service
- Government agencies and health authorities
- Large waste generators (e.g. academic institutions, transportation hubs, entertainment sector)
- Multi-family residences
- Non-governmental/non-profit organizations and environmental stewardship groups
- Public members-at-large (e.g. youth, seniors, and multicultural, accessibility, and resident/community associations)
- Recycling industry
- Retail/grocery
- Small- and medium-sized businesses
- Waste industry

The following is an initial list of committee(s) members' personal qualities, perspectives and experience:

- Demonstrates community/committee involvement and the ability to work collaboratively with others
- Demonstrates personal commitment to zero waste/circular economy goals
- Demonstrates the ability to advance innovation
- Experienced with waste and recycling (i.e. lived experience, technical expertise or both)
- May belong to a community that is typically underrepresented (e.g. women, LGBTQ2S+, Indigenous persons, immigrants, visible minority, persons with disabilities, youth etc.)
- Represents the interests/perspectives of a group of people/sector

Pre-Engagement Process Learnings

This is the first time that the Metro Vancouver Solid Waste Services Department has included a pre-engagement phase in a public engagement process, and it has proven to be a valuable component to a robust engagement program. Multiple stakeholders expressed support for early engagement, including pre-engagement. It also provided a mechanism to test run the level of reach using Metro Vancouver's usual engagement methods, and revealed areas where more analysis will be important to design future engagement to reach sectors that did not respond. Allowing more time for pre-engagement feedback and more opportunities for stakeholders to speak with the Consultation and Engagement Panel may be beneficial in the future.

It is also important to note that because the pre-engagement phase occurred during the height of COVID-19 pandemic restrictions in BC, many of the typical in-person engagement methods could not be used. In-person pre-engagement methods may have revealed some different pre-engagement feedback. As the solid waste management plan update process will be a multi-year process, there will be opportunities to respond future feedback on engagement process, and to adapt engagement approaches and methods even as subsequent phases of engagement are designed and launched. Attachment 3 presents an engagement timeline that will be updated as engagement progresses.

Publication of Written Correspondence Related to the Solid Waste Management Plan Update

In an effort to maintain transparency and allow stakeholders to view feedback from others throughout the engagement process, any written correspondence received in relation to the solid waste management plan update process will be included as attachments to publicly available engagement reports to the Zero Waste Committee and Board, and made available on the Metro Vancouver website for stakeholders to easily access and view, unless the author requests that the submission not be made public. Authors will be notified in advance of the intent to publish their submissions. To avoid duplication and ensure all submissions related to the solid waste management plan are published in a fair and equal manner, correspondence on this topic will not be additionally included as information items on Zero Waste Committee agendas. Written correspondence to be published includes:

- Letters (received by mail or electronically)
- Emails containing substantive comments in response to specific engagement phases, including attachments
- PowerPoint presentations submitted alone or as part of a presentation given to staff or the Consultation and Engagement Panel

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

Activities related to planning for and implementing the pre-engagement phase of the solid waste management plan update are covered under the approved Solid Waste Services budget. There are no additional financial implications.

CONCLUSION

To deliver a robust engagement process that goes above and beyond Metro Vancouver’s typical process, exceeds provincial requirements, and addresses previous concerns raised about engagement, a pre-engagement phase was introduced to help shape the engagement process and phases for the solid waste management plan update.

Feedback from the pre-engagement phase of the regional solid waste management plan update will inform an engagement program for the project which will be brought to the Board later this year, including timing and details for subsequent engagement phases. During pre-engagement, Metro Vancouver received feedback from over 350 individuals or groups on preferred communication channels, methods of participation, and information needs to support engagement in future phases of the solid waste management plan update process, via a variety of engagement methods. Feedback included support for a variety of online and in person engagement opportunities including focused, sector-specific discussions, and early, continuous opportunities to provide feedback. Participants supported collaborative, transparent engagement process.

A questionnaire will be issued to help inform the structure and membership selection criteria for public and technical advisory committee(s) for the solid waste management plan update. The results of that questionnaire and proposed structure and selection criteria of the committee(s) will be brought to the Board later this year prior to an open call for applications and establishment of the committee(s).

Attachment 3 presents an engagement timeline that will be updated as engagement progresses.

Attachments *(Orbit #46246217)*

1. Solid Waste Management Plan Update - Pre-Engagement Records
2. Written Submissions and Metro Vancouver Responses
3. Solid Waste Management Plan Engagement Timeline

References

[Solid Waste Management Plan Pre-Engagement Video](#)

45781820

Solid Waste Management Plan Update - Pre-Engagement Records

Index:

1. Summary of Solid Waste Management Plan Independent Consultation and Engagement Panel Meetings
2. Notification emails and letters
3. Sectors and Organizations Providing Feedback
4. Issues Identified
5. Stakeholder Presentations to the Consultation and Engagement Panel
6. Solid Waste Areas of Interest
7. Online Public Pre-Engagement Questionnaire Results

1 – Summary of Solid Waste Management Plan Independent Consultation and Engagement Panel Meetings

Meeting #1: October 27, 2020

- Learned about panel members' experiences and expertise
- Shared perspectives around meaningful engagement and professional experience

Meeting #2: November 23, 2020

- Received a high-level overview of solid waste and recycling management systems in the region
- Reviewed previous engagement leading up to development of the current solid waste management plan, and discussed learnings
- Discussed key audiences and reviewed Provincial guidelines for engagement

Meeting #3: December 14, 2020

- Drafted guiding principles and objectives of engagement
- Discussed pre-engagement strategies
- Discussed phases of engagement, audiences, and engagement methods

Meeting #4: January 12, 2021

- Reviewed detailed pre-engagement methods and approach
- Reviewed draft public engagement program

Meeting #5: February 16, 2021

- Discussed Indigenous engagement approach
- Reviewed pre-engagement plans
- Planned for upcoming Stakeholder / Panel meetings

Meeting #6: April 19, 2021

- Continue pre-engagement planning
- Discuss potential advisory committee structure and criteria

Meeting #7: May 17, 2021

- Series of stakeholder meetings with the Consultation and Engagement Panel
- Stakeholder / Panel meeting debrief
- Pre-engagement update

Meeting #8: June 18, 2021

- Review pre-engagement feedback

2 – Notification Emails and Letters

Email to solid waste database (3,566 successful recipients):



Join the Conversation: Help Shape Solid Waste Policy in Metro Vancouver

You are receiving this message as you have subscribed to receive notifications about Metro Vancouver projects, services, and initiatives.

*To continue receiving updates, please [click here](#) to sign up or adjust your topics of interest to include “Solid Waste Management Plan Update”. **Note that unless you are signed up to receive updates on this specific topic, you will not receive regular updates on this project.***

Metro Vancouver is responsible for waste reduction, recycling planning, and the operation of a series of solid waste facilities in the region. Metro Vancouver’s solid waste management plan is due for an update. This long-range plan guides the management of solid waste and recyclable materials in the region including key goals, targets and strategies.

Your voice matters

Help shape the public engagement process. Let us know how and how often you'd like to hear from us, and what information you would need from us to provide feedback on solid waste management topics and issues.

To learn more or provide feedback:

- Visit our engagement [web page](#) to learn more about this project and complete our 3-minute pre-engagement [questionnaire](#). The questionnaire closes **May 28, 2021**.
- Email zerowaste@metrovancover.org to set up an online meeting with our staff project team or consultant.
- Sign up for a timeslot on **May 17, 2021** to speak directly with members of the [Consultation and Engagement Panel](#), by emailing zerowaste@metrovancover.org. This is an independent panel of engagement experts established to advise and guide Metro Vancouver as we develop and implement an engagement program. Panel members are listed on our [web page](#).
- [Sign up here](#) to receive future updates and invitations to engagement events and activities. Be sure to click "Solid Waste Management Plan update" as a topic of interest.

Chat with the Chair

Watch Jack Froese, Chair of Metro Vancouver's Zero Waste Committee and host Jaeny Baik, a former CBC broadcaster, as they [discuss how 'zero waste' can be achieved by working towards a circular economy](#).



SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Copyright © 2021 Metro Vancouver. All rights reserved.

If you prefer to unsubscribe from this mailing list, click the [unsubscribe link here](#)

Email to Urban Indigenous contacts (17 successful recipients):

metrovancouver | SOLID WASTE



**Join the Conversation:
Help Shape Solid Waste Policy in Metro Vancouver**

You are receiving this message as you or your organization may be impacted by Metro Vancouver's solid waste management plan update.

If you do not wish to receive any future notifications about Metro Vancouver projects, services, and initiatives, please email zerowaste@metrovancouver.org.

Metro Vancouver is responsible for waste reduction, recycling planning, and the operation of a series of solid waste facilities in the region. Metro Vancouver's solid waste management plan is due for an update. This long-range plan guides the management of solid waste and recyclable materials in the region including key goals, targets and strategies.

Your voice matters

Help shape the Indigenous engagement approach. Metro Vancouver is committed to collaborating with Indigenous Nations, communities and organizations in developing

and implementing a solid waste management plan that responds to your values and priorities. We would like to learn about your priorities and areas of interest in waste reduction, recycling, and economic development, and how you would like to engage with us.

To learn more or provide feedback:

- Complete our short Indigenous pre-engagement [questionnaire](#) by **July 2, 2021**.
- Visit our [engagement web page](#) if you'd like to learn more about this project.
- Email zerowaste@metrovancover.org to set up an online meeting with our staff project team or consultant.
- Sign up for a timeslot on **May 17, 2021** to speak directly with members of the [Consultation and Engagement Panel](#), by emailing zerowaste@metrovancover.org. This is an independent panel of engagement experts established to advise and guide Metro Vancouver as we develop and implement an engagement program. Panel members are listed on our [web page](#).

Chat with the Chair

Watch Jack Froese, Chair of Metro Vancouver's Zero Waste Committee and host Jaeny Baik, a former CBC broadcaster, as they [discuss how 'zero waste' can be achieved by working towards a circular economy](#).



SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Copyright © 2021 Metro Vancouver. All rights reserved.

If you prefer to unsubscribe from this mailing list, click the [unsubscribe link here](#)

Email to organizations identified as being potentially impacted by solid waste management plan – notify only at milestones or at launch of new phases of engagement (99 successful recipients):

metrovancover | SOLID WASTE



**Join the Conversation:
Help Shape Solid Waste Policy in Metro Vancouver**

You are receiving this message as you or your organization may be impacted by Metro Vancouver’s solid waste management plan update.

*To receive regular updates on this project, please [click here to sign up](#) – select “Solid Waste Management Plan Update” as your topic of interest. **You will not be automatically added to this list.***

If you do not wish to receive any future notifications about Metro Vancouver projects, services, and initiatives, please email zerowaste@metrovancover.org.

Metro Vancouver is responsible for waste reduction, recycling planning, and the operation of a series of solid waste facilities in the region. Metro Vancouver’s solid waste management plan is due for an update. This long-range plan guides the management of solid waste and recyclable materials in the region including key goals, targets and strategies.

Your voice matters

Help shape the public engagement process. Let us know how and how often you'd like to hear from us, and what information you would need from us to provide feedback on solid waste management topics and issues.

To learn more or provide feedback:

- Visit our [engagement web page](#) to learn more about this project and complete our 3-minute pre-engagement [questionnaire](#). The questionnaire closes **May 28, 2021**.
- Email zerowaste@metrovancover.org to set up an online meeting with our staff project team or consultant.
- Sign up for a timeslot on **May 17, 2021** to speak directly with members of the [Consultation and Engagement Panel](#), by emailing zerowaste@metrovancover.org. This is an independent panel of engagement experts established to advise and guide Metro Vancouver as we develop and implement an engagement program. Panel members are listed on our [web page](#).
- [Sign up here](#) to receive future updates and invitations to engagement events and activities. Be sure to click "Solid Waste Management Plan update" as a topic of interest.

Chat with the Chair

Watch Jack Froese, Chair of Metro Vancouver's Zero Waste Committee and host Jaeny Baik, a former CBC broadcaster, as they [discuss how 'zero waste' can be achieved by working towards a circular economy](#).



SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Follow-up email to Boards of Trade and Chambers of Commerce – May 20, 2021:



SPRING 2021

Metro Vancouver Management Plan Update

Upcoming Engagement Opportunities

At Metro Vancouver, we rely on our relationships with the business community to help plan for a livable, prosperous and sustainable region. As we prepare to update long-term management plans across a number of our core services, we are seeking your input, to better understand your members' realities, values and challenges.

To ensure you're aware of opportunities to have your voice heard across all the management plan updates, we would like to regularly reach out, on a quarterly basis, with a summary of current and upcoming engagement opportunities - from panel discussions, webinars, workshops and online feedback, to direct communication and presentations to your board of trade / chamber of commerce. We hope this approach will make it easier for your organization to provide feedback.

To make sure these updates are reaching the most appropriate members of your organization, please [let us know](#) the best person to contact as opportunities for engagement arise.

Metro Vancouver Management Plans

Long-term, integrated management plans are the foundational documents that guide Metro Vancouver's areas of legislated responsibility: Drinking Water, Regional Parks, Liquid Waste, Solid Waste, Air Quality, Housing and Regional Growth. To ensure that these regional plans capture current realities and needs, they are regularly updated every 8 to 10 years.

In this first of a regular series of updates, we are highlighting two management plan engagement opportunities, for the *Solid Waste Management Plan* and the *Clean Air Plan*.



Help our region shape a new *Solid Waste Management Plan*

Metro Vancouver is responsible for waste reduction, recycling planning, and the operation of a series of solid waste facilities in the region.

The [regional *Solid Waste Management Plan*](#) contains goals, targets, and actions for waste reduction and recycling. The plan is due for an update, to identify opportunities to accelerate waste reduction and diversion while reducing



greenhouse gases and promoting a circular economy.

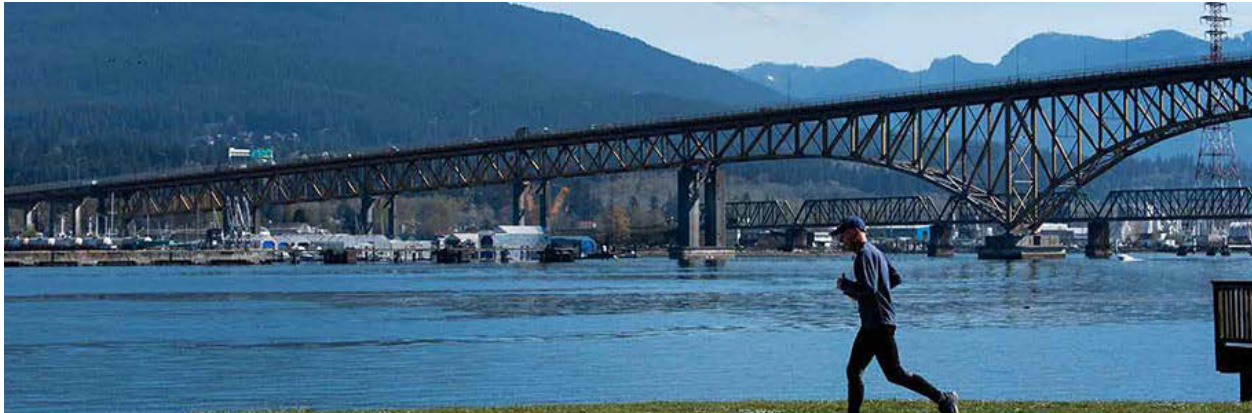
We'd like to hear more about your preferred communication channels, methods of participation, key information required, and what is needed to make participation easier.

Read more about the [Solid Waste Management Plan update](#) and let us know how you'd like to participate in engagement.

- [Solid Waste Management Plan pre-engagement questionnaire](#)
- [Schedule a call](#) with Metro Vancouver staff or a consultant who can summarize your feedback

Solid Waste Management Plan Engagement

Solid Waste Management Plan Engagement



Metro Vancouver's draft *Clean Air Plan* – comment period open to June 15

Metro Vancouver's draft 2021 *Clean Air Plan* is the regional plan for managing air quality and greenhouse gases over the next 10 years. Actions in the plan will reduce air contaminant emissions, including greenhouse gases, and support the commitment to a carbon neutral region by 2050. The *Clean Air Plan* will also help improve air quality in the region.

The draft plan includes over 130 actions and recommendations in key areas to reduce emissions from the largest sources in this region: transportation of people and goods, buildings we live and work in, industrial sources, and others.



Your input is valued

Metro Vancouver is seeking comments and feedback on the proposed actions, and suggestions for implementation. You are invited to review the plan and provide your feedback through a public forum and/or by submitting a feedback form. Learn more about the [Clean Air Plan](#).

- [Draft Clean Air Plan](#)
- [Draft Clean Air Plan summary](#)
- Provide feedback on the [Draft Clean Air Plan](#)
- [Email the project team](#) directly to provide feedback or request more information

[Clean Air Plan Engagement](#)

Clean Air Plan Engagement



SERVICES AND SOLUTIONS FOR A LIVABLE REGION

Copyright © 2021 Metro Vancouver. All rights reserved.

Please email ExternalRelations@metrovancover.org to subscribe other members of your organization, or unsubscribe from this mailing list.

Letter to Metro Vancouver member jurisdictions:

*Note that Tsawwassen First Nation received the solid waste management plan pre-engagement letter sent the letter to Local First Nations, and is therefore not included in the list below.

Bowen Island Municipality	City of Richmond
City of Burnaby	City of Surrey
City of Coquitlam	City of Vancouver
City of Delta	City of White Rock
City of Langley	District of North Vancouver
City of Maple Ridge	District of West Vancouver
City of New Westminster	Electoral Area A
City of North Vancouver	Township of Langley
City of Pitt Meadows	Village of Anmore
City of Port Coquitlam	Village of Belcarra
City of Port Moody	Village of Lions Bay

April 27, 2021

File: PE-13-01

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
VIA EMAIL: [REDACTED]

Dear [REDACTED]

Metro Vancouver's Solid Waste Management Plan Update

Metro Vancouver is updating its solid waste management plan, and would like to learn how [REDACTED] would like to be engaged in the development of the new plan over the next two to three years.

The *Integrated Solid Waste and Resource Management Plan* was approved by the Provincial Government in 2011 and requires an update. By applying a framework of resilience, equity and prosperity, the updated plan will build on the current plan's strengths and identify opportunities for accelerated waste reduction and diversion, while reducing greenhouse gases and promoting a circular economy.

A comprehensive engagement program involving a broad range of stakeholders and perspectives will be critical in the development of an updated solid waste management plan. Metro Vancouver's engagement on this project is guided by an [Independent Consultation and Engagement Panel](#), a group of engagement experts established to advise and guide Metro Vancouver staff and Board.

Seeking Your Feedback

Metro Vancouver would like to learn how [REDACTED] would like to be notified of engagement opportunities and provide input at various stages in the plan development process (e.g. preferred channels of communication, level and frequency of updates). The information we receive will help shape an engagement program that describes engagement phases, methods and audiences, and strives to align with the priorities and preferences of a broad range of audiences. This pre-engagement phase will close on **May 28, 2021**.

Metro Vancouver will work closely with municipal staff through the REAC-Solid Waste Sub-Committee to understand and identify opportunities to advance waste reduction and recycling in key

44113443

priority areas, such as single-use items, illegal dumping, and construction and demolition waste. Although the development of a new solid waste management plan is anticipated to be a two- to three-year process, Metro Vancouver and municipal staff will continue to work together in the interim to advance efforts in these key areas.

An engagement web page has been developed and is available [here](#) or at metrovancover.org by searching 'solid waste management plan engagement'. The web page describes the project, outlines the phases of engagement, and links to a 3-minute questionnaire.

If you have any questions or comments about the review and update of Metro Vancouver's solid waste management plan, require additional information, or wish to schedule an online meeting or presentation with Metro Vancouver, a third party consultant that will summarize feedback, or the Consultation and Engagement Panel, please contact Sarah Evanetz, Division Manager, Strategy and Stakeholder Relations, by email at Sarah.Evanetz@metrovancover.org or by phone at 778-995-3476.

Thank you in advance for your consideration.

Your sincerely,



Sav Dhaliwal
Chair, Metro Vancouver Board



Jack Froese
Chair, Zero Waste Committee

SD/JF/PH/si

44113443

Letter to adjacent regional districts:

**the following letter was sent to the Fraser Valley Regional District, Sunshine Coast Regional District, and Squamish-Lillooet Regional District*

April 28, 2021

File: PE-13-01

[REDACTED]
[REDACTED] Regional District

[REDACTED]
[REDACTED]

VIA EMAIL: [REDACTED]

[REDACTED]:

Metro Vancouver's Solid Waste Management Plan Update

Metro Vancouver is updating its solid waste management plan and would like to learn how the [REDACTED] would like to be engaged in the development of the new plan over the next two to three years.

The *Integrated Solid Waste and Resource Management Plan* was approved by the Provincial Government in 2011 and requires an update. By applying a framework of resilience, equity and prosperity, the updated plan will build on the strengths of the current plan and identify opportunities for accelerated waste reduction and diversion, while reducing greenhouse gases and promoting a circular economy.

A comprehensive engagement program involving a broad range of stakeholders and perspectives will be critical in the development of an updated solid waste management plan. Metro Vancouver's engagement on this project is guided by an [Independent Consultation and Engagement Panel](#), a group of engagement experts established to advise and guide Metro Vancouver staff and Board.

Seeking Your Feedback

Metro Vancouver would like to learn how the [REDACTED] would like to be notified of engagement opportunities and provide input at various stages in the plan development process (e.g. preferred channels of communication, level and frequency of updates). The information we receive will help shape an engagement program that describes engagement phases, methods and audiences, and strives to align with the priorities and preferences of a broad range of audiences. This pre-engagement phase will close on **May 28, 2021**.

45031013

An engagement web page has been developed and is available [here](#) or at metrovancouver.org by searching 'solid waste management plan engagement'. The web page describes the project, outlines the phases of engagement, and links to a 3-minute questionnaire.

In addition to the questionnaire, below are several other opportunities to provide feedback on the engagement process for the development of a new solid waste management plan:

- Presentation to the [REDACTED] Regional District Board
- Meeting with Metro Vancouver
- Meeting with a third party consultant that will summarize feedback
- Meeting with Metro Vancouver's Independent Consultation and Engagement Panel

If you have any questions or comments about the review and update of Metro Vancouver's solid waste management plan or would like to schedule one of the above opportunities, please contact Sarah Evanetz, Division Manager, Strategy and Stakeholder Relations, by email at Sarah.Evanetz@metrovancover.org or by phone at 778-995-3476.

Thank you in advance for your consideration.

Your sincerely,



Sav Dhaliwal
Chair, Metro Vancouver Board



Jack Froese
Chair, Zero Waste Committee

SD/JF/PH/si

45031013

Letter to Local First Nations:

Katzie First Nation
Kwantlen First Nation
Kwikwetlem First Nation
Matsqui First Nation
Musqueam Indian Band
Qayqayt First Nation
Semiahmoo First Nation
Squamish Nation
Tsawwassen First Nation
Tsleil-Waututh Nation

April 27, 2021

File: CP-16-01

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

VIA EMAIL: [REDACTED]

Metro Vancouver's Solid Waste Management Plan Update

[REDACTED]:

Metro Vancouver is updating its solid waste management plan, and would like to learn how the [REDACTED] wishes to participate in the development of the new plan over the next two to three years.

Developed by Metro Vancouver's Board and approved by the Provincial Government in 2011, the current *Integrated Solid Waste and Resource Management Plan* established goals and targets for waste reduction and recycling, and contained supporting strategies and actions for Metro Vancouver and its member jurisdictions. For reference, the plan can be downloaded from metrovancover.org by searching "[solid waste management plan](#)".

Over the next two to three years, Metro Vancouver is updating the plan and hopes to engage with Indigenous peoples, stakeholders, governments, and communities of interest. By applying a framework of resilience, equity and prosperity, the updated plan will build upon the strengths of the current plan to identify opportunities to accelerate waste reduction and diversion, while reducing greenhouse gases and promoting a circular economy that minimizes waste, maintains materials at their highest value, and generates economic opportunities in the region. Metro Vancouver's engagement on this project is guided by the [Independent Consultation and Engagement Panel](#), a group of engagement experts established to advise and guide Metro Vancouver staff and Board.

43634479

Metro Vancouver is committed to collaborating with [REDACTED] in developing and implementing a solid waste management plan that responds to your values and priorities. We would like to learn about your community's priorities and areas of interest in waste reduction, recycling, and economic development and how you would like to engage with us. We welcome your input via email, letter, online submission (available [here](#)) or a meeting, to help shape an Indigenous engagement strategy for this project.

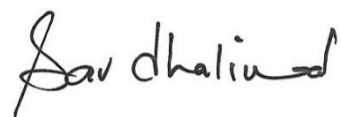
Given the current COVID-19 meeting constraints, we would be pleased to schedule an online meeting with your staff, or alternatively can present to Chief and Council at your convenience to determine how we can best work together toward the development of the new plan for solid waste in the region.

We would appreciate meeting with or receiving comments from you before **July 2, 2021** about how to structure engagement on developing the plan. If you're not able to participate in this initial phase we understand, but do hope we can connect at a later date on the content of the plan. There will be multiple future opportunities to help shape the content of the solid waste management plan.

If you have any questions or require additional information regarding the update of Metro Vancouver's solid waste management plan, or wish to schedule a meeting or presentation with Metro Vancouver, a third party consultant that will summarize feedback, or the Engagement Panel, please contact Nanette van Doorn by email at Nanette.vanDoorn@metrovancover.org or by phone at 604-451-6073. More information is available [here](#) or at metrovancover.org by searching 'solid waste management plan engagement'.

Thank you in advance for your consideration and I look forward to the opportunity of working together.

Yours sincerely,



Sav Dhaliwal
Chair, Metro Vancouver Board

SD/PH/si

43634479

Letter to First Nations whose territories encompass all or part of Metro Vancouver, and the Métis Nation of British Columbia:

Cowichan Tribes	Skawahlook First Nation
Douglas Band (Xa'xtsa)	Snaw-Naw-As First Nation (Nanoose First Nation)
Halalt First Nation	Soowahlie First Nation
Lake Cowichan First Nation	St'at'imc Chiefs Council (Lillooet Tribal Council)
Lyackson First Nation	Sto:lo Nation
Pauquachin First Nation	Sto:lo Tribal Council
Penelakut Tribe	Stz'uminus First Nation
Peters First Nation	Te'mexw Treaty Association
Samahquam First Nation	Tsartlip First Nation
Seabird Island Band	Tsawout First Nation
Shxw'ow'hamel First Nation	Tseycum First Nation
Skatin Nations	Métis Nation of BC

April 28, 2021

File: PE-13-01

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
VIA EMAIL: [REDACTED]

Metro Vancouver's Solid Waste Management Plan Update

Dear [REDACTED]:

Metro Vancouver is updating its solid waste management plan, and would like to learn how the [REDACTED] wishes to participate in the development of the new plan over the next two to three years.

Developed by Metro Vancouver's Board and approved by the Provincial Government in 2011, the current *Integrated Solid Waste and Resource Management Plan* established goals and targets for waste reduction and recycling, and contained supporting strategies and actions for Metro Vancouver and its member jurisdictions. For reference, the plan can be downloaded from metrovancouver.org by searching "[solid waste management plan](#)".

Over the next two to three years, Metro Vancouver is updating the plan and hopes to engage Indigenous peoples, stakeholders, governments, and communities of interest. By applying a framework of resilience, equity and prosperity, the updated plan will build upon the strengths of the current plan to identify opportunities for accelerated waste reduction and diversion, while reducing greenhouse gases and promoting a circular economy that minimizes waste, maintains materials at their highest value, and generates economic opportunities in the region. Metro Vancouver's engagement on this project is guided by the [Independent Consultation and Engagement Panel](#), a group of engagement experts established to advise and guide Metro Vancouver staff and Board.

43940884

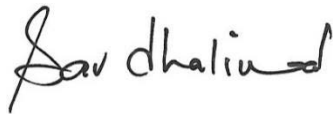
We would like to learn about your priorities and areas of interest in waste reduction, recycling, and economic development and how you would like to engage with us. We welcome your input via email, letter or online submission (available [here](#)), to help shape an Indigenous engagement strategy for this project.

We would appreciate receiving comments from you before **July 2, 2021** about how to structure engagement on developing the plan. If you're not able to participate in this initial phase we understand, but do hope we can connect at a later date on the content of the plan. There will be multiple future opportunities to help shape the content of the solid waste management plan.

If you have any questions or require additional information regarding the update of Metro Vancouver's solid waste management plan, or wish to schedule a meeting or presentation with Metro Vancouver, a third party consultant that will summarize feedback, or the Engagement Panel, please contact Nanette van Doorn by email at Nanette.vanDoorn@metrovancover.org or by phone at 604-451-6073. More information is available [here](#) or at metrovancover.org by searching 'solid waste management plan engagement'.

Thank you in advance for your consideration and I look forward to the opportunity of working together.

Yours sincerely,



Sav Dhaliwal
Chair, Metro Vancouver Board

SD/PH/nvd

43940884

3 – Sectors and Organizations Providing Feedback

Organization Name	Sectors Providing Feedback During Pre-engagement	Method of participation / input
BSIbio Packaging Solutions Inc.	Industry / Manufacturing	<ul style="list-style-type: none"> • Interview with staff • Presentation to the panel • Questionnaire
Simon Fraser University (SFU)	Post-Secondary	<ul style="list-style-type: none"> • Interview with staff
Building Owners and Managers Association (BOMA)	Property Management	<ul style="list-style-type: none"> • Interview with staff
Associated Labels and Packaging	Industry / Manufacturing	<ul style="list-style-type: none"> • Interview with staff • Questionnaire
Share, Reuse, Repair Initiative	Environmental NGO	<ul style="list-style-type: none"> • Interview with staff
Binners' Project	Waste and Recycling Industry	<ul style="list-style-type: none"> • Interview with staff • Questionnaire
Recycling Council of BC	Waste and Recycling Industry	<ul style="list-style-type: none"> • Interview with staff
Supernova Waste to Energy Inc.	Waste and Recycling Industry	<ul style="list-style-type: none"> • Interview with staff • Questionnaire
Retail Council of Canada	Retailer	<ul style="list-style-type: none"> • Interview with staff
Waste Connections of Canada	Waste and Recycling Industry	<ul style="list-style-type: none"> • Presentation to the panel • Written submission
Revolution Resource Recovery	Waste and Recycling Industry	<ul style="list-style-type: none"> • Presentation to the panel • Written submission
Clothing retailer (requested to be anonymous)	Retailer	<ul style="list-style-type: none"> • Email
Tourism Vancouver	Tourism	<ul style="list-style-type: none"> • Interview with staff
BCIT	Post-Secondary	<ul style="list-style-type: none"> • Interview with staff
CityHive	Youth	<ul style="list-style-type: none"> • Interview with staff
Waste Management Association of BC	Waste and Recycling Industry	<ul style="list-style-type: none"> • Letter • Presentation to the panel
Super Save Group	Waste and Recycling Industry	<ul style="list-style-type: none"> • Presentation to the panel
Fraser Valley Regional District	Government	<ul style="list-style-type: none"> • Letter • Invited presentation at FVRD Board meeting
HSR Zero Waste	Waste and Recycling Industry	<ul style="list-style-type: none"> • Questionnaire • Presentation to the panel
Revolution Resource Recovery	Waste and Recycling Industry	<ul style="list-style-type: none"> • Questionnaire • Presentation to the panel • Written submission
Master Recycler	Environmental NGO	<ul style="list-style-type: none"> • Presentation to the panel
Republic Services	Waste and Recycling Industry	<ul style="list-style-type: none"> • Presentation to the panel
Waste Management Association of BC (WMABC)	Waste and Recycling Industry	<ul style="list-style-type: none"> • Presentation to the panel • Written Submission • Questionnaire
Agricultural Advisory Committee		<ul style="list-style-type: none"> • Presentation
LandlordBC	Property Management	<ul style="list-style-type: none"> • Interview questions via email • Questionnaire
OneEarth	Environmental NGO	<ul style="list-style-type: none"> • Interview with staff

<p>Metro Vancouver member municipalities</p>	<p>Government</p>	<ul style="list-style-type: none"> • Municipal Workshop • Letter (City of Port Moody and Village of Belcarra)
<p>Ministry of Environment</p>	<p>Government</p>	<ul style="list-style-type: none"> • Municipal workshop
<ul style="list-style-type: none"> • BC Used Oil Management Association • BentallGreenOak • Business Council of BC • Cadillac Fairview • City of Burnaby • City of North Vancouver • City of North Vancouver • City of Surrey • Ecowaste Industries Ltd. • Empower Environmental Solutions • EZEE Hoarding Inc. • North Shore Table Matters network • Recycling Committee of Marina Housing Co-op (multi-family building in Vancouver) • Regional District of Nanaimo • Rethink2gether • Sea to Sky Removal • Squamish-Lillooet Regional District • Surrey Schools • Sustainabiliteens • Tri-Cities Chamber of Commerce • Tymac Launch Service Ltd. • Urban Development Institute • Vancouver Native Housing Society • Willowbrook Recycling Inc • Zwapitico 	<ul style="list-style-type: none"> • Waste and recycling industry – 28% • Local Government, Government Agencies and Ministries – 22% • Non-Governmental Organizations / Non-profits – 16% • Other sectors: Property management, Industry/Manufacturing, Construction Industry, Education, Retailer, Board of Trade / Chamber of Commerce / Business Improvement Association 	<ul style="list-style-type: none"> • Questionnaire

4 – Issues Identified

Issue #	Category	Issue / Feedback	Source(s) by Engagement Method	Source(s) by Sector
1	Audiences	Bring in multiple jurisdictions with different responsibilities to the table. Let stakeholders hear from each other to gain a better understanding. Systems between adjacent regions are highly interconnected and partnerships have the potential to bring improvements to waste diversion, the environment, airshed health, and economy	Interviews and Written submission	Industry / Manufacturing, Government
2	Audiences	Include construction contractors	Interview	Post-Secondary
3	Audiences	Include the food industry, and manufacturers of food packaging and labels	Interview	Industry/Manufacturing
4	Audiences	Include innovators, small to medium businesses who are adopting circular economy practices, production, and economic development, as well as representative from finance, insurance/risk, culture/people	Interview	Environmental NGO
5	Audiences	Include adjacent regional districts, smaller businesses, small haulers, small processing facilities	Interview	Waste and Recycling Industry
6	Audiences	Engage with employees on the ground - elevate those perspectives as experts in their own organizations.	Interview	Tourism
7	Audiences	Engage a wide range of industry experts	Presentation to the panel	Waste and Recycling Industry
8	Audiences	Youth groups are keen to engage on sustainability	Workshop / Presentation	Government
9	Audiences	Include Chambers of Commerce, Boards of Trade, and business councils	Workshop / Presentation	Government
10	Audiences	Engage with industry associations, tourism associations, building associations, and Business Improvement Areas	Workshop / Presentation	Government
11	Audiences	Reach out to schools through existing environmental outreach programs in partnership with school districts	Workshop / Presentation	Government
12	Audiences	Engage youth through existing networks. Youth are interested and eager to understand the system, process, roles and responsibilities	Interview	Youth associations

13	Audiences	For youth not currently engaged in existing networks: meet them where they are at. Partner with service agencies or community groups. Offer incentives, honorariums or food.	Interview	Youth associations
14	Communication	Work with partners on the ground to distribute or display educational materials		Environmental NGO, Government, Waste and Recycling Industry
15	Communication	Lots of communication is best and promotes transparency. Often reminders are necessary as stakeholders are busy.	Presentation to the panel	Waste and Recycling Industry
16	Communication	Information needs to be presented and communicated in a firm and honest manner	Written submission	Waste and Recycling Industry
17	Engagement approach	Allow sufficient time for thorough engagement and provision of feedback.	Interviews and Presentations to the panel	Post-Secondary, Waste and Recycling Industry
18	Engagement approach	Early and continuous engagement and communication is key, including involving community members and industry prior to decision making or changes. Iterative process that brings parties together multiple times, not just individual voices. Modify the process if needed.	Interviews and Presentations to the panel	Waste and Recycling Industry, Post-Secondary, Tourism, Property Management, Industry/Manufacturing, Environmental NGO
19	Engagement approach	Transparency on how input was used and reasons why decisions were made. Strong feedback loops. Especially important if decisions are made contrary to stakeholder feedback. Work with stakeholders to understand reasons, or explore alternatives together.	Interviews and Presentations to the panel	Post-Secondary, Waste and Recycling Industry, Industry/Manufacturing
20	Engagement approach	Favour a hands on approach. Beyond being heard, we want to be part of pilots or activities to find solutions. Engagement process itself is an opportunity to network and advance and activate initiatives and partnerships even while we go through the planning process	Interviews	Industry / Manufacturing, Environmental NGO

21	Engagement approach	Be respectful of time. Many key audiences are very busy. Design engagement to accommodate busy schedules. Compensation may be beneficial.	Interviews and Presentations to the panel	Industry / Manufacturing, Environmental NGO, Waste and Recycling Industry, Retail
22	Engagement approach	Clearly define purpose of engagement and expectations of the participant, what components of the plan are up for discussion / what issues will or will not be considered, and what participants should expect at the end of the process	Interviews and Presentations to the panel	Waste and Recycling Industry, Environmental NGO
23	Engagement approach	Engagement is needed during the implementation phase of the plan as well	Presentation to the panel	Industry / Manufacturing, Waste and Recycling Industry
24	Engagement approach	Listen actively and reflect concerns objectively	Interview and Presentation to the panel	Retail, Waste and Recycling Industry
25	Engagement approach	Need to have an open mind to foster open, fair, balanced, and collaborative engagement. No pre-determined outcomes	Presentation to the panel and Written submission	Waste and Recycling Industry
26	Engagement approach	Support for the Consultation and Engagement Panel	Written submission	Waste and Recycling Industry
27	Engagement approach	Build trust by actively listening to and truly considering feedback.	Presentation to the panel	Waste and Recycling Industry
28	Engagement approach	Gain buy-in; have stakeholders engaged and feel ownership over the process and outcome	Presentation to the panel, Interview	Waste and Recycling Industry
29	Engagement events	Suggest working with partners on the ground to help host and facilitate sector-specific engagement events, possibly as part of existing meetings or events. Examples of partners: non-profit organizations, community groups, community centres, libraries, community advisory groups and policy councils, municipalities.	Presentation to the panel, Municipal Workshop, and Interview	Environmental NGO, Government, Waste and Recycling Industry

30	Engagement methods	Prefer real time engagement at a physical location, with decision-makers present to hear comments first hand.	Interview	Industry / Manufacturing, Waste and Recycling Industry
31	Engagement methods	Prefer face to face meetings and delegations to elected officials	Written submission	Government
32	Engagement methods	Focused, sector-specific discussions are preferred	Interview	Industry / Manufacturing, Environmental NGO, Retail, Property Management, Waste and Recycling Industry
33	Engagement methods	Email was generally supported as a means of notification or receiving information	Interviews, Questionnaire (79% of respondents prefer email notifications, followed by social media, news media, and online presentation/meeting)	Multiple
34	Engagement methods	Online questionnaire, email, online comment sections, and online meetings or webinars were generally favoured as means of providing feedback.	Questionnaire (78% preferred online questionnaire)	Multiple, Resident
35	Engagement methods	Those representing organizations are more likely to prefer email or online presentations or meetings; whereas those representing their household are more likely to prefer email and social media	Questionnaire	Multiple, Resident
36	Engagement methods	Meet small business operators at their place of business	Interview and Presentation to the panel	Waste and Recycling Industry

37	Engagement methods	Suggest putting up posters to reach the wider community, including posters at bottle depots	Interview	Waste and Recycling Industry
38	Engagement methods	Smaller online and in-person meetings, with opportunities to hear others in a larger group setting	Interview	Retail
39	Engagement methods	Workshops are appreciated	Interview, written submissions	Government, Post-Secondary
40	Engagement methods	Prefer to provide feedback via written responses	Interview	Property Management
41	Engagement methods	Include website, online events, Facebook, mail, telephone polling, and in-person events when possible.	Presentation to the panel	Waste and Recycling Industry
42	Engagement methods	Request to be included in a working group and have the opportunity to contribute to its development, including objectives and outcomes.	Presentation to the panel	Waste and Recycling Industry
43	Engagement methods	Email, newspaper, social media, website, webinar, in-person meetings, community events, 1-on-1 meetings, existing industry association meetings	Presentation to the panel	Waste and Recycling Industry
44	Engagement methods	Develop take-home engagement kits to support engagement to facilitate discussion at community or youth group meetings	Workshop / Presentation	Government
45	Engagement methods	Municipalities prefer progress updates at regular meetings, dedicated municipal meetings / workshops, and some 1 on 1 meetings	Workshop / Presentation	Government
46	Engagement methods	Pre-packaged social media materials are easy to re-post to spread the word	Workshop / Presentation	Government
47	Engagement methods	Request written updates to member municipalities at major milestones, as engagement opportunities arise, and throughout all phases of engagement and solid waste management plan development	Workshop / Presentation, Written submission	Government

48	Engagement methods	Regular updates to committee and opportunities for input at key milestones	Workshop / Presentation	Agriculture
49	Engagement methods	Support for online methods including questionnaires, forums, comment boxes	Interviews, Questionnaire, Presentations to the panel	Multiple
50	Engagement methods	Online portal where stakeholders can log in to view information and provide feedback	Questionnaire	Multiple, Resident
51	Engagement methods	Municipal newsletters, posters, billboards, existing committee meetings, written updates to municipal Mayors and Council	Questionnaire	Multiple, Resident
52	Engagement methods	Opportunities for feedback in places that stakeholders already go, such as the mall or grocery store; chat circles with politicians	Questionnaire	Multiple, Resident
53	Information required	Require up-to-date information on new technologies, and draw on industry expertise for this.	Interview and Presentation to the panel	Industry / Manufacturing, Waste and Recycling Industry
54	Information required	Simple, easy to understand documents for review and comment, use graphics	Interview	Waste and Recycling Industry, Retail, Environmental NGO

55	Information required	Sector-specific data (including financial analysis, comparisons to other jurisdictions, and waste audit information)	Interview	Tourism, Property Management
56	Information required	Trends in commodities market, where recyclables end up, brokers and processors locally and elsewhere, information on the regional solid waste system (facilities)	Interview	Post-Secondary
57	Information required	More communication is needed, including data sharing on Metro Vancouver's system and processes; previous lack of communication	Presentation to the panel	Waste and Recycling Industry
58	Information required	Include educational components on how the waste and recycling system works, including public and private sector, and facilities within and outside of the region	Presentation to the panel	Waste and Recycling Industry
59	Information required	Acknowledge the complexities of potential options, and don't overly simplify.	Presentation to the panel	Waste and Recycling Industry
60	Information required	As part of engagement, feature success stories of businesses and organizations.	Presentation to the panel	Waste and Recycling Industry
61	Information required	Methods and assumptions that are used to calculate diversion rates	Written submission	Waste and Recycling Industry
62	Information required	Information on people's current practises and barriers for zero waste living	Interview	Environmental NGO

63	Information required	Require information on context, what is happening across the region, who is responsible for solid waste management and zero waste policy, partners for implementation.	Interview	Youth associations
64	Information required	Current solid waste management plan background; fate of waste and recycling after it is collected; waste diversion statistics; financial and environmental impact of options; solid waste management challenges; global best practices; latest research and technologies; scope of solid waste management plan update	Questionnaire	Multiple, Resident
65	Information required	Present accurate, objective facts and data at the outset, as a foundation for conversations about the plan, leveraging industry expertise where needed.	Presentation, Presentations to the panel	Government , Waste and Recycling Industry
66	Methods	Methods effective for youth include targeted social media, campaigns, video, partnering with influencers, Facebook (for older youth), instagram, Tick tock, informal webinar, hubs/places of gathering, community boards at shops, engagement events, short surveys. Partner with groups that work with youth to host events and communicate to networks.	Interview	Youth associations
67	Pre-engagement	Appreciate the proactive approach to pre-engagement, by involving stakeholders as early as possible	Presentation to the panel	Waste and Recycling Industry, Environmental NGO

68	Research	Suggestion to review example solid waste plans in Portland, York Region, and City of Toronto, which have circular economy and waste reduction focuses	Interview	Environmental NGO
69	Timing	Don't engage during the summer months	Presentation to the panel	Waste and Recycling Industry
70	Timing	Require adequate time to provide feedback, especially to accommodate local government council, committee or Board meetings (4-6 week turnaround is insufficient)	Workshop / Presentation; written submission	Government
71	Translations	In general, no need for translated materials at this time. A few requests for Chinese language information, and other languages mentioned including French, Spanish, Punjabi, Croatian, Greek, Hindi, Japanese, Korean, German, Tagalog, Vietnamese.	Interviews, Questionnaire (93% responded that translations not required)	Multiple
72	Translations	Translation necessary. Use graphics as well.	Interview	Environmental NGO

5 – Stakeholder Presentations to the Consultation and Engagement Panel

Closing THE LOOP

With Organics Recycling

A practical guide for restaurant and food service operators



metrovancouver

SERVICES AND SOLUTIONS FOR A LIVABLE REGION



What's In. What's Out.

So what does compostable mean? In Metro Vancouver, it refers to materials that are accepted for processing by regional organics recycling facilities.

That said, the mandatory organics waste ban that will come into effect in 2015 in our region will focus on removing

food from the garbage. The easiest and best place for restaurants to tackle this process is back-of-house where pre-consumer (prep trim, spoilage) and post-consumer (plate scrapings, uneaten breads, tea bags) food waste can be collected and directed to dedicated green bins.

✔ What's In	✘ What's Out
<ul style="list-style-type: none"> White or kraft paper napkins 	<ul style="list-style-type: none"> Plastic and foil condiment packages
<ul style="list-style-type: none"> Plain, unlined paper plates and boxes 	<ul style="list-style-type: none"> Plastic wrap and trays
<ul style="list-style-type: none"> Plain, uncoated plant fibre-based (bagasse) plates, bowls and clamshells 	<ul style="list-style-type: none"> Polystyrene #6 plastic cutlery
<ul style="list-style-type: none"> Wax-coated bags and wrap paper* 	<ul style="list-style-type: none"> Polystyrene #6 (Styrofoam) plates and clamshells
<ul style="list-style-type: none"> Plain and food-grade wax-coated wooden cutlery and chopsticks* 	<ul style="list-style-type: none"> 100% PLA cold cups, clamshells, cutlery and straws
<p><i>*If using wax coating, check with your hauler or organics recycler to see if it is accepted.</i></p>	<ul style="list-style-type: none"> PLA-coated or lined paper hot cups, plates, wrappers and take-out boxes
	<ul style="list-style-type: none"> Biodegradable corn or potato starch plastic containers
	<ul style="list-style-type: none"> Oxo-degradable plastic bags



Take-Out. Delivery.

There is an ever-increasing variety of next-generation take-out packaging and disposable serving ware for food service.

In order for restaurant customers to recycle the compostable clamshells and plates they take home, you should choose products that are accepted by residential green bin programs around Metro Vancouver and not only acceptable for commercial purposes.

This category includes:

- uncoated paper plates, bowls and napkins made of 100% paper, preferably high in pcf (post-consumer fibre) recycled content.
- fibrewares (bagasse, sugar cane, bamboo, palm leaf) – that are plants or plant by-products pressed into sturdy moisture-resistant containers and plates. An effective substitute for polystyrene or plastic-coated paper.
- folding cardboard containers that are increasingly made with 100% recycled paper content. Only uncoated and unlined products are accepted by organics recyclers.
- wooden cutlery and serving accessories like forks, knives, spoons and chopsticks. These are acceptable as long as any coating is plant-based.
- Wax coatings may be acceptable. Check with your hauler or organics recycler to see if it's accepted.

The following materials were once accepted in specialized commercial facilities, however, they are no longer accepted.

- Corn or plant-based polylactic acid (PLA) plastics that replaced non-recyclable (#6) plastics. PLA can replace plastic as a moisture-resistant lining in paper hot cups, folding boxes and as a coating on paper sandwich or burger wrappers. There are also 100% PLA cold cups, clamshells, cutlery and straws. However, PLA is no longer recommended as compostable or biodegradable.
- Plant starch-based packaging and cutlery. This is a plastic substitute made from potato or other vegetable starches. Some brands, however, still add conventional plastics which means they are only biodegradable.
- Oxo-degradable plastic bags.

Always check with your hauler or supplier to confirm whether your chosen product is accepted as compostable in either municipal or specialized commercial facilities.



Go re-usable!
Where viable,
a re-usable
foodware program
is always the
better choice.

Is a compostable product always the best choice?

From an environmental point-of-view, the answer is most often 'yes.' From the operational side, however, the answer is 'it depends'. To avoid confusing your staff and customers, it's always best not to mix compostables and non-compostables within a product category such as cups, straws, napkins or in common combinations such as a cup, lid and straw.

What's Out

- 100% PLA Cold cups, clamshells, cutlery & straws

What's Out

- PLA coated or lined paper hot cups, plates, wrappers and take-out boxes

So what does compostable mean? In Metro Vancouver, it refers to materials that are accepted for processing by regional organics recycling facilities.

That said, the mandatory organics waste ban that will come into effect in 2015 in our region will focus on removing

food waste from garbage. The easiest and most effective place for restaurants to tackle this process is back-of-house where pre-consumer (prep trim, spoilage) and post-consumer (plate scrapings, uneaten breads, tea bags) food waste can be collected and directed to dedicated green bins.

What's In 	What's Out 
• White or kraft paper napkins	• Plastic and foil condiment packages
• Plain, unlined paper plates and boxes	• Plastic wrap and trays
• Plain, uncoated plant fibre-based (bagasse) plates, bowls and clamshells	• Polystyrene #6 plastic cutlery
• Wax-coated bags and wrap paper*	• Polystyrene #6 (Styrofoam) plates and clamshells
• Plain and food-grade wax-coated wooden cutlery and chopsticks*	• 100% PLA cold cups, clamshells, cutlery and straws
	• PLA-coated or lined paper hot cups, plates, wrappers and take-out boxes
	• Biodegradable corn or potato starch plastic containers
	• Oxo-degradable plastic bags

*If using wax coating, check with your hauler or organics recycler to see if it is accepted.



Take-Out, Delivery.

There is an ever-increasing variety of next-generation take-out packaging and disposable serving ware for food service.

In order for restaurant customers to recycle the compostable clamshells and plates they take home, you should choose products that are accepted by residential curbside bin programs around Metro Vancouver and not only suitable for commercial purposes.

This category includes: uncoated paper plates, bowls and napkins made of 100% paper, preferably high in pcf (post-consumer fibre) recycled content.

- fibrewares (bagasse, sugar cane, bamboo, palm leaf) – that are plants or plant by-products pressed into sturdy moisture-resistant containers and plates. An effective substitute for polystyrene or plastic-coated paper.
- folding cardboard containers that are increasingly made with 100% recycled paper content. Only uncoated and unlined products are accepted by organics recyclers.
- wooden cutlery and serving accessories like forks, knives, spoons and chopsticks. These are acceptable as long as any coating is plant-based.
- Wax coatings may be acceptable. Check with your hauler or organics recycler to see if it's accepted.

The following materials were once accepted in specialized commercial facilities, however, they are no longer accepted.

- Corn or plant-based polylactic acid (PLA) plastics that replaced non-recyclable (#6) plastics. PLA can replace plastic as a moisture-resistant lining in paper hot cups, folding boxes and as a coating on paper sandwich or burger wrappers. There are also 100% PLA cold cups, clamshells, cutlery and straws. However, PLA is no longer recommended as compostable or biodegradable.
- Plant starch-based packaging and cutlery. This is a plastic substitute made from potato or other vegetable starches. Some brands, however, still add conventional plastics which means they are only biodegradable.
- Oxo-degradable plastic bags.

Always check with your hauler or supplier to confirm whether your chosen product is accepted as compostable in either municipal or specialized commercial facilities.



*Go re-usable!
Where viable,
a re-usable
foodware program
is always the
better choice.*

Is a compostable product always the best choice?

From an environmental point-of-view, the answer is most often 'yes.' From the operational side, however, the answer is 'it depends'. To avoid confusing your staff and customers, it's always best not to mix compostables and non-compostables within a product category such as cups, straws, napkins or in common combinations such as a cup, lid and straw.

What's Out

- 100% PLA Cold cups, clamshells, cutlery & straws

What's Out

- PLA coated or lined paper hot cups, plates, wrappers and take-out boxes

So what does compostable mean? In Metro Vancouver, it refers to materials that are accepted for processing by regional organics recycling facilities.

That said, the mandatory organics waste ban that will come into effect in 2015 in our region will focus on removing

food waste from garbage. The easiest and most effective place for restaurants to tackle this process is back-of-house where pre-consumer (prep trim, spoilage) and post-consumer (plate scrapings, uneaten breads, tea bags) food waste can be collected and directed to dedicated green bins.

What's In

- White or kraft paper napkins
- Plain, unlined paper plates and boxes
- Plain, uncoated plant fibre-based (bagasse) plates, bowls and clamshells
- Wax-coated bags and wrap paper*
- Plain and food-grade wax-coated wooden cutlery and chopsticks*

*If using wax coating, check with your hauler or organics recycler to see if it is accepted.

What's Out

- Plastic and foil condiment packages
- Plastic wrap and trays
- Polystyrene #6 plastic cutlery
- Polystyrene #6 (Styrofoam) plates and clamshells
- 100% PLA cold cups, clamshells, cutlery and straws
- PLA-coated or lined paper hot cups, plates, wrappers and take-out boxes
- Biodegradable corn or potato starch plastic containers
- Oxo-degradable plastic bags



Take-Out, Delivery.

There is an ever-increasing variety of next-generation take-out packaging and disposable serving ware for food service.

In order for restaurant customers to recycle the compostable clamshells and plates they take home, you should choose products that are accepted by residential curbside bin programs around Metro Vancouver and not only suitable for commercial purposes.

Category includes:

• Paper plates, bowls and napkins made of 100% paper, preferably high in pcf (post-consumer fibre) recycled content.

• Fibrewares (bagasse, sugar cane, bamboo, palm leaf) – that are plants or plant by-products pressed into sturdy moisture-resistant containers and plates. An effective substitute for polystyrene or plastic-coated paper.

• Folding cardboard containers that are increasingly made with 100% recycled paper content. Only uncoated and unlined products are accepted by organics recyclers.

• Wooden cutlery and serving accessories like forks, knives, spoons and chopsticks. These are acceptable as long as any coating is plant-based.

• Wax coatings may be acceptable. Check with your hauler or organics recycler to see if it's accepted.

Is a compostable product always the best choice?

From an environmental point-of-view, the answer is most often 'yes.' From the operational side, however, the answer is 'it depends.' To avoid confusing your

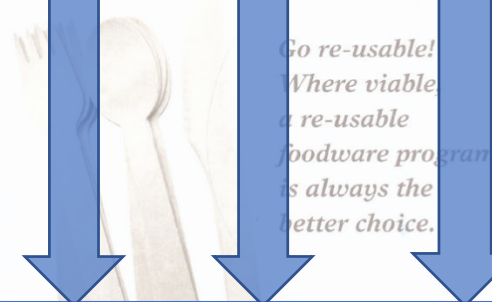
The following materials were once accepted in specialized commercial facilities, however, they are no longer accepted.

- Corn or plant-based polylactic acid (PLA) plastics that replaced non-recyclable (#6) plastics. PLA can replace plastic as a moisture-resistant lining in paper hot cups, folding boxes and as a coating on paper sandwich or burger wrappers. There are also 100% PLA cold cups, clamshells, cutlery and straws. However, PLA is no longer recommended as compostable or biodegradable.

- Plant starch-based packaging and cutlery. This is a plastic substitute made from potato or other vegetable starches. Some brands, however, still add conventional plastics which means they are only biodegradable.

- Oxo-degradable plastic bags.

Always check with your hauler or supplier to confirm whether your chosen products are accepted as compostable in either municipal or specialized commercial facilities.



Go re-usable!
Where viable
a re-usable
foodware program
is always the
better choice.

The following materials ... are no longer accepted.

- Corn or plant based... plastics...
- PLA is no longer recommended as compostable or biodegradable
- Plant starch based packaging and cutlery...

What's In. What's Out.

So what does compostable mean? In Metro Vancouver, it refers to materials that are accepted for processing by regional organics recycling facilities.

That said, the mandatory organics waste ban that will come into effect in 2015 in our region will focus on removing

food from the garbage. The easiest and best place for restaurants to tackle this process is back-of-house where pre-consumer (prep trim, spoilage) and post-consumer (plate scrapings, uneaten breads, tea bags) food waste can be collected and directed to dedicated green bins.

What's In 	What's Out 
<ul style="list-style-type: none"> White or kraft paper napkins Plain, unlined paper plates and boxes Plain, uncoated plant fibre-based (bagasse) plates, bowls and clamshells Wax-coated bags and wrap paper* Plain and food-grade wax-coated wooden cutlery and chopsticks* <p><i>*If using wax coating, check with your hauler or organics recycler to see if it is accepted.</i></p>	<ul style="list-style-type: none"> Plastic and foil condiment packages Plastic wrap and trays Polystyrene #6 plastic cutlery Polystyrene #6 (Styrofoam) plates and clamshells 100% PLA cold cups, clamshells, cutlery and straws PLA-coated or lined paper hot cups, plates, wrappers and take-out boxes Biodegradable corn or potato starch plastic containers Oxo-degradable plastic bags



What's In. What's Out.

The mandatory organics waste ban that will come into effect in 2015 in our region will focus on removing food from the garbage and landfill. The easiest and best place for restaurants to tackle the process is the back-of-house food preparation (prep trim and spoilage), and front of house food waste (plate scrapings, leftovers, tea bags). This food waste can be collected and directed to dedicated green bins. To make the most of your organics collection you may be able to add compostable paper and food service and packaging materials (paper napkins, uncoated fibre containers and fibre clamshells). Check with your hauler for a complete list of accepted items.

Compostable & ACCEPTED 	NOT Compostable = NOT ACCEPTED 	Compostable & NOT SURE? 
<ul style="list-style-type: none"> Kitchen scraps left over food white/kraft paper napkins plain, uncoated plant fibre-based boxes and clamshells plain, uncoated wooden cutlery and chopsticks 	<ul style="list-style-type: none"> Plastic and foil condiment packages Plastic wrap and trays Plastic cutlery (is it recyclable?) Plastic plates and clamshells (is it recyclable and clean?) Plastic bags Oxodegradable plastic bags Plastic coated paper cups Plastic coated paper & containers 	<p>Some certified compostable materials / packaging are only accepted in some facilities. Please check with your waste hauler on the following items:</p> <ul style="list-style-type: none"> 100% PLA cups PLA coated paper and containers Wax coated paper and containers Certified compostable cutlery Wax coated wooden cutlery



COMPOSTABLE IN INDUSTRIAL FACILITIES
BPI

Check locally as these do not exist in many jurisdictions. Not suitable for backyard composting. CERT #33076

OK compost
VINÇOTTE

What does compostable mean? In Metro Vancouver, compostable is an internationally recognised standard where products must physically disintegrate into compost, actually biodegrade (be consumed by microorganisms), and have no negative impact on the ability of the compost to support plant growth.

Take-Out. Delivery.

There is an ever-increasing variety of next-generation take-out packaging and disposable serving ware for food service.

In order for restaurant customers to recycle the compostable clamshells and plates they take home, you should choose products that are accepted by residential green bin programs around Metro Vancouver and not only acceptable for commercial purposes.

This category includes:

- uncoated paper plates, bowls and napkins made of 100% paper, preferably high in pcf (post-consumer fibre) recycled content.
- fibrewares (bagasse, sugar cane, bamboo, palm leaf) – that are plants or plant by-products pressed into sturdy moisture-resistant containers and plates. An effective substitute for polystyrene or plastic-coated paper.
- folding cardboard containers that are increasingly made with 100% recycled paper content. Only uncoated and unlined products are accepted by organics recyclers.
- wooden cutlery and serving accessories like forks, knives, spoons and chopsticks. These are acceptable as long as any coating is plant-based.
- Wax coatings may be acceptable. Check with your hauler or organics recycler to see if it's accepted.

The following materials were once accepted in specialized commercial facilities, however, they are no longer accepted.

- Corn or plant-based polylactic acid (PLA) plastics that replaced non-recyclable (#6) plastics. PLA can replace plastic as a moisture-resistant lining in paper hot cups, folding boxes and as a coating on paper sandwich or burger wrappers. There are also 100% PLA cold cups, clamshells, cutlery and straws. However, PLA is no longer recommended as compostable or biodegradable.
- Plant starch-based packaging and cutlery. This is a plastic substitute made from potato or other vegetable starches. Some brands, however, still add conventional plastics which means they are only biodegradable.
- Oxo-degradable plastic bags.

Always check with your hauler or supplier to confirm whether your chosen product is accepted as compostable in either municipal or specialized commercial facilities.



*Go re-usable!
Where viable,
a re-usable
foodware program
is always the
better choice.*

Is a compostable product always the best choice?

From an environmental point-of-view, the answer is most often 'yes.' From the operational side, however, the answer is 'it depends'. To avoid confusing your staff and customers, it's always best not to mix compostables and non-compostables within a product category such as cups, straws, napkins or in common combinations such as a cup, lid and straw.



Take-Out. Delivery.

There is an ever-increasing variety of next-generation take-out packaging and disposable serving ware for food service.

In order for restaurant customers to recycle the compostable clamshells and plates they take home, you should choose products that are accepted by residential green bin programs.

This category of products includes:

- uncoated paper plates, bowls and napkins made of 100% paper, preferably high in pcf (post-consumer fibre) recycled content.
- fibre-wares (bagasse/sugar cane, bamboo, palm leaf)-plants or plant by-products pressed into sturdy moisture-resistant containers and plates. An effective substitute for polystyrene or plastic-coated paper.
- folding cardboard containers are increasingly made with 100% recycled paper content. Only uncoated and unlined products are accepted by organics recyclers.
- wooden cutlery and serving accessories like forks, knives, spoons and chopsticks. These are acceptable as long as any coating on them is plant-based.
- Wax coatings may be acceptable. Check with your hauler or organics recycler to see if it's accepted.

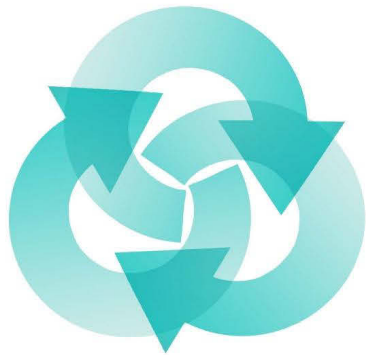
The acceptance of certified compostable packaging varies between facilities in the Lower Mainland. Between rapid product growth and composting technology, some compostable packaging may not be accepted in residential green bin programs .

- **Corn or plant-based polylactic acid (PLA)** bio-plastics are commonly used in food containers, cups, cutlery, and as barrier coating on paper products. Though fully compostable under optimum commercial compost conditions, PLA products are best suited to commercial facilities that are able to identify it for processing. Choosing PLA packaging requires that suppliers, haulers and facilities work together to ensure material acceptance.
- **Plant starch-based bio-plastics** are made from potato or other vegetable starches. Certified compostable products are available, however some brands still add conventional plastic to the starch resin and then claim to be "biodegradable". Biodegradable does not mean compostable.
- **"Biodegradable" plastics** are common in the marketplace. Biodegradable products should not be used in your compostable packaging program unless the product is also certified compostable.
- **Photo- or Oxo-degradable plastics** are conventional plastic products with additives that work to break the plastic bonds into smaller fragments. These products are not accepted in commercial compost systems.

Is a compostable product always the best choice?

From an environmental point-of-view, the answer is most often 'yes.' From the operational side, however, the answer is 'it depends'. To avoid confusing your staff and customers, it's always best not to mix compostables and non-compostables within a product category such as cups, straws, napkins or in common combinations such as a cup, lid and straw.





MASTER RECYCLER

Serving the Vancouver Lower Mainland

Recommendations to the Metro Van SWMP UPdate Consultation & Engagement Panel

May 17, 2021

Provided by: Emily McGill

We acknowledge that meeting takes place on **unceded** and **occupied Coast Salish territory**, specifically that of the **Skwxwú7mesh/Squamish**, **x̣m̓ə0k̓w̓əy̓əm** (Musqueam), and **mi ce:p k̓ət̓x̣w̓iləm** (Tsleil-Waututh) Nations.

Master Recycler Program Overview

- Annual 8-week community “train-the-trainer” course (~22h in-class, 30 hours outreach + field trips)
- Plus micro-courses for business and municipalities (4 sessions + outreach mentoring)
- Course topics include:
 - *Circular economy | Waste Prevention Hierarchy | Organics diversion & composting | EWaste | Repair | Entrepreneurship | Behaviour change | Outreach and Marketing*
- 5-year wait list; 155 participants to date, 80+ graduates
- 3000+ outreach hours, centered on education

Context on Emily's Experience re: Today's Input

- **How Metro Vancouver works** *Several years consulting for NZWC PD&P Working Group, engagement in stakeholder consultation processes*
- **Solid Waste Management Planning Processes** *2 years as Jr. Engineer with Tetra Tech Canada, involved in SWMP updates, waste audits and reports for businesses, regions, municipalities*
- **Policy Impacting Waste Reduction and Entrepreneurship on-the-ground** *Assessing, convening feedback on, and reporting via Tetra Tech, Textile Lab for Circularity, Master Recycler Vancouver*
- **Providing feedback in public consultation processes** *Member of Talk Vancouver, federal policy inputs, working groups on various aspects of organic waste management*

Recommendations to the Engagement Panel

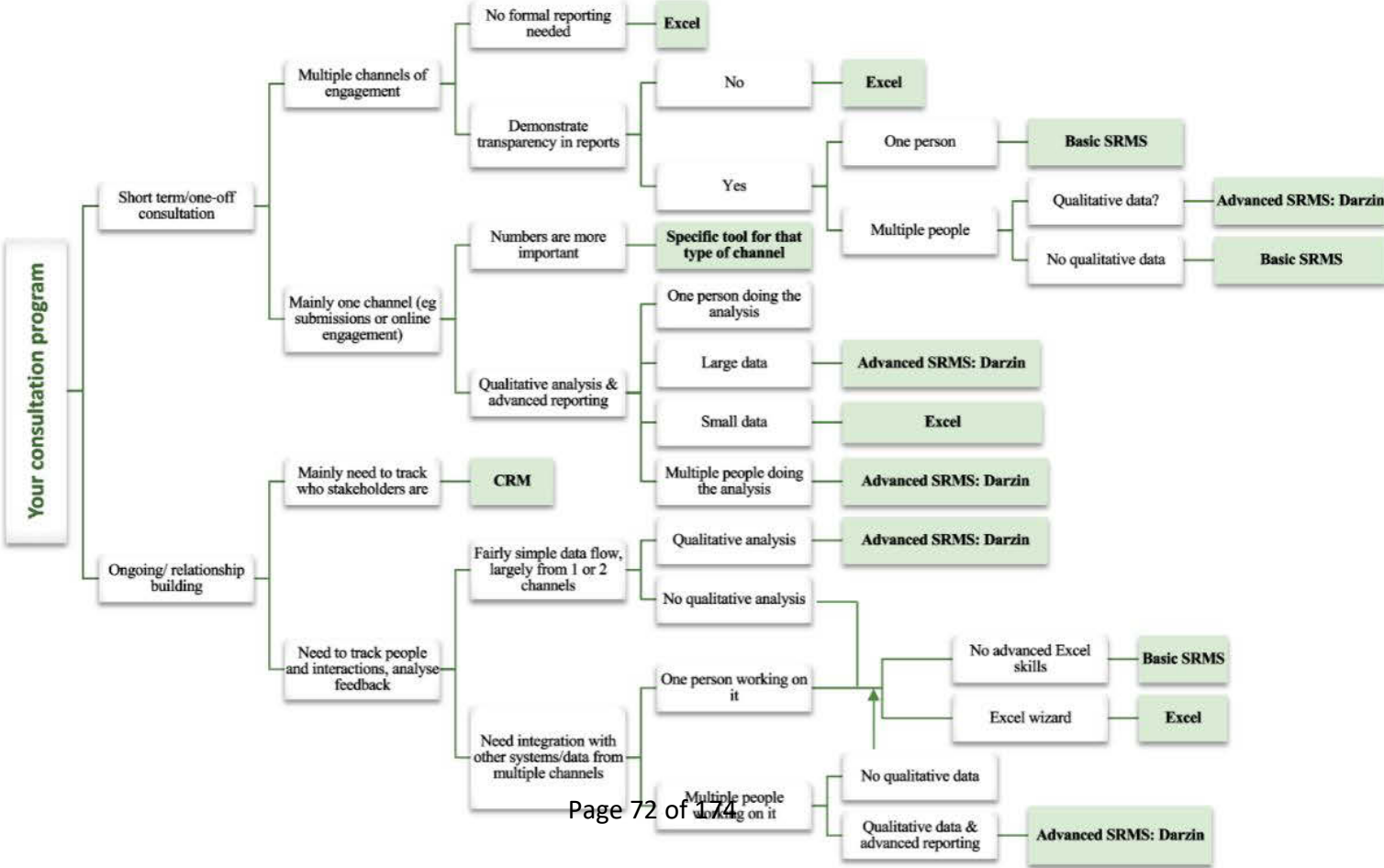
- **Clarify purpose and establish expectations of public consultation**
 - *E.g. Citizen sense of ownership of SWMP outcomes. Set precedent for effective input from public on regional SWMP updates. Qualitative AND quantitative feedback.*
- **Create a webpage tracking progress of SWMP update (and ways to engage)**
- **Create a feedback tracking system to avoid double-entries across multiple input streams**
 - *Potential 'member logins': Make it fun/engaging/gamified to encourage consistent participation.*
- **Outsource facilitation of virtual workshops to gather public input**
 - *Process: Establish workshop procedures, inputs/outputs, tracking*
 - *Potential partners: Master Recycler | Village Vancouver | Friendship Center(s) | Community Centers | Libraries | Local non-profits like SPEC | SRRI | BrandsForBetter*

High-Level Hopes

- Supports education that is already ‘in the wild’
(re: prevention hierarchy)
- Highly transparent and digestible approach, appropriate for different cultures and linguistic needs
- Actively engages “hot” communities in areas of expertise - a way to access highly engaged folks that is fair to those who are less engaged
- Actively advocates for ‘green job’ development; integrates with existing initiatives

Choosing the right software for your needs

Some clear CRM management software is highly possible and recommended! This decision tree is just an example of how clear the choice can be.



Thank you!

And good luck!

emily@masterrecyclervancouver.ca

Republic Services

Roosevelt Regional Landfill &
H.W. Hill Renewable Natural Gas Facility



Republic Services at a Glance

Fortune 500 / RSG

We believe in a cleaner, safer and healthier world where people thrive – not just for today but for generations to come.

14 million

customers in the U.S. and Canada

33,000+

employees

340

collection operations

201

transfer stations

64

recycling centers

192

active solid waste landfills

5 Million

tons of recyclable materials managed annually

2,800

natural gas (RNG) trucks

Safety Priority

41% better than Industry average



Recognized as a Leader in the Industry (partial list)



Roosevelt Regional Landfill Operated by Republic Services



- Accepted first load of BC waste in 1991.
- Permitted for 2.3 million tonnes of MSW Annually.
- Customers have included: Metro Vancouver RD, Cowichan Valley RD, qathet RD, commercial generators, Whistler, Coastal First Nations and & Northern Affairs Canada.
- Operates under the Klickitat County Comprehensive Solid Waste Management Plan approved by Washington State.

- Republic Services is a current residual disposal services provider to MVRD.

Roosevelt's methane capture rate is the best in the Pacific Northwest. Communities who value the least GHG contributions to their waste disposal choose Republic Services.

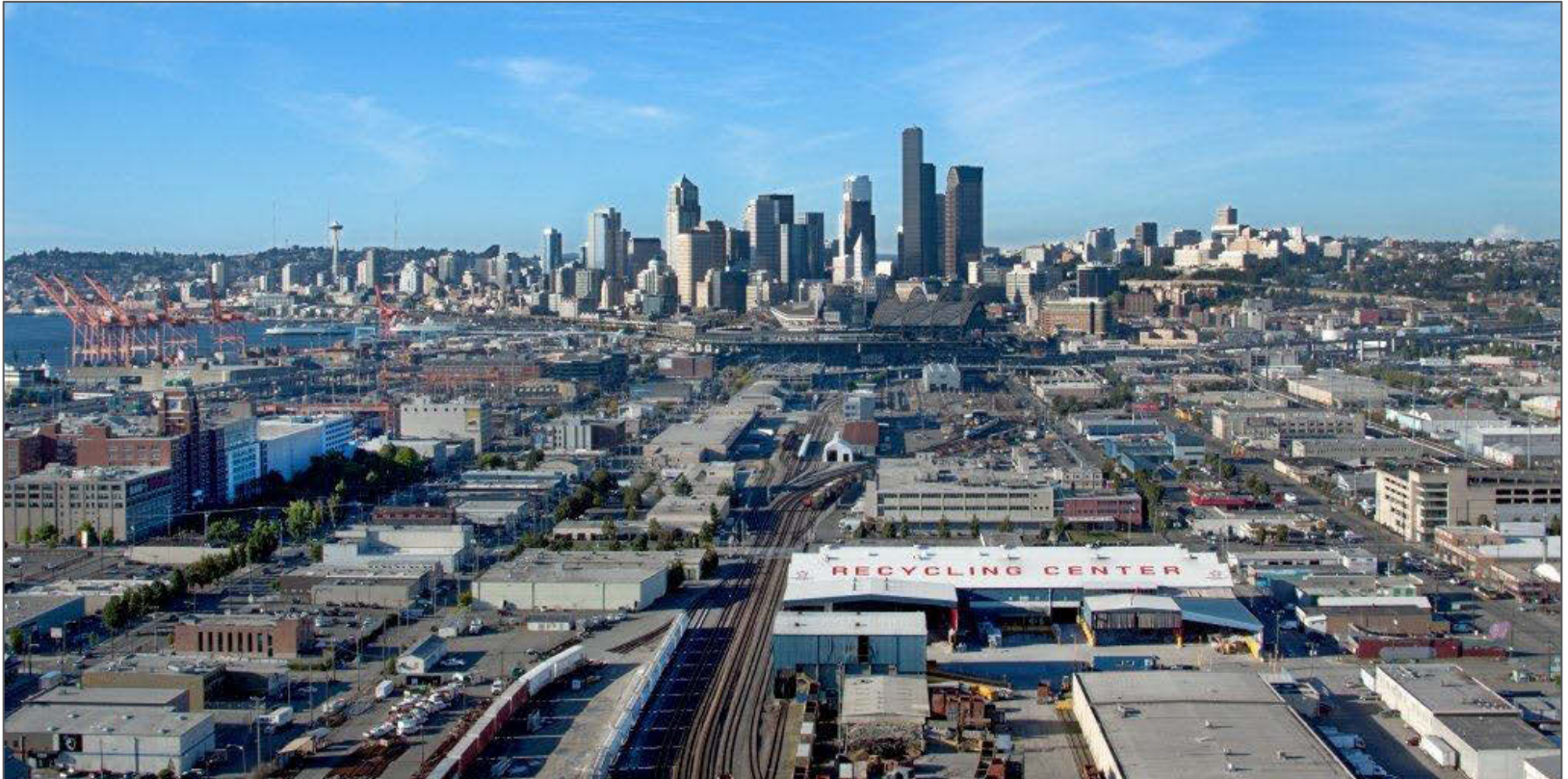
Klickitat PUD- H.W. Hill Renewable Natural Gas Facility Located at Roosevelt Landfill

- Partnership with Klickitat County Public Utility District at Roosevelt Regional Landfill
- Largest RNG Facility in United States
- Harvesting Methane and other Gases generated through the natural organic breakdown of waste
- Producing RNG volumes the equivalent of 68 Million Liters of Gasoline each year
- Demonstrated 95% Gas Capture Rate
- RNG Distributed through the BP Williams Pipeline servicing Western Washington and British Columbia.

Washington State Governor Jay Inslee participates in the ribbon cutting of the Renewable Natural Gas facility at the landfill. Governor Inslee spoke about this plant on numerous occasions, as well as during his State of the State Address in front of the legislature in 2020.



Republic Services – Seattle Materials Recovery Facility



Largest Recycling Facility in the Pacific Northwest

Pre-Engagement – Shaping the Process

Guiding Principles:

- Information should include educational components on how recycling works; all three parts of waste stream – recyclables, organics and residuals, are commodities. For those that are exported to reach facilities that provide resiliency to our system, export is protected under international trade agreements.
- Acknowledgement should be given to the strengths of the current system that utilizes a complement of facilities located in and out of region and a competitive environment in both procurement processes for service providers and within the private sector that supports the local recycling industry.



Ideas Generation:

- Realistic perspectives and expectations management should be adopted based on experience that technology and behavioral changes always take longer than one may want.

Shaping the Process Continued

Options Analysis:

- Solid waste is a complex topic. Simplistic slogans work for behavioural change but not for analyzing potential options.
- Don't dumb it down.
- GHG emission calculations should include a wholistic approach that recognizes the full compliment of factors that contribute to environmental impacts.

Engagement on Draft Plan:

- Listen actively and reflect those concerns objectively.

Other feedback:

- No consultations during the summer months.
- Provide findings throughout the Phases.
- Allow online dialogue amongst participants.
- Provide the list of participants publicly.
- Communicate in real time – online, as much as possible and monthly at the least.
- Don't include social medias such as Twitter or Instagram.
- Do include a website, online, Facebook, snail mail.
- Consider telephone polling.
- Hold in-person events when possible, to complement virtual sessions.

Thank You.

Cynthia Shore
Government Relations Advisor
Republic Services
Cell 604-290-3745
1602-1228 West Hastings Street
Vancouver, BC V6E 4S6
Cynthia.shore@telus.net

On Behalf of:
Matthew Pederson
Municipal Relationship Manager
Republic Services
Office 509-808-2779
Cell 509-808-9909
Mpederson@republicservices.com
104 S. Freya, Suite 226A
Turquoise Flag Building
Spokane, WA 99202

Brice Little
Intermodal Operations Manager
Republic Services
Office 206-637-0847
Blittle@republicservices.com
54 S. Dawson St.
Seattle, WA 98134



6 – Solid Waste Areas of Interest

Areas of interest that emerged through the pre-engagement process are summarized below.

Circular Economy / systems approach	<ul style="list-style-type: none"> • Circular economy • Share, reuse, repair • Single-use item strategies • Greenhouse gas emissions • Environmental stewardship • Green jobs • Holistic approach – including elements higher up the waste hierarchy, and factors beyond waste such as social justice, environment, land/air/water, economy • Zero waste and lighter living
Recycling	<ul style="list-style-type: none"> • Commercial waste and recycling challenges • Extended producer responsibility • Co-mingled and source separated recycling • Communications on how to recycle and the efficacy and efficiency of recycling processes • Calculation of recycling rates (methodology)
Infrastructure	<ul style="list-style-type: none"> • Systems, facilities, and industry to advance zero waste and circular economy • Waste-to-energy as a means to handle residual waste • Technological innovations • Local management of recyclable materials • Alternative fuel
Disposal	<ul style="list-style-type: none"> • Landfill and waste-to-energy • Illegal dumping • Long term waste disposal
Social Considerations	<ul style="list-style-type: none"> • Equity and inclusion • Social impact • Change management • Social enterprises supporting waste diversion • Access to eco-friendly goods • Citizen ownership over solid waste management plan, and connection to day-to-day activities, habits, practices
Financial Considerations	<ul style="list-style-type: none"> • Cost (and cost incentives) of using and purchasing sustainable materials • Direct and indirect costs as a result of solid waste policies, including affordability for businesses • Tipping fee revenue • Procurement • Economic development
Sectors or Material Types	<ul style="list-style-type: none"> • Construction • Compostable plastics and packaging • Recyclable packaging • Soft plastics • Food • Food packaging and labels • Textiles

	<ul style="list-style-type: none">• Consumer goods• Electronics
Other	<ul style="list-style-type: none">• Inter-municipal coordination• Reporting metrics• Metro Vancouver's roles in regulation and service provision• Waste flow bylaws potentially impacting neighbouring jurisdictions• Coordination between regulations and plans

7 – Online Public Pre-Engagement Questionnaire Results

Respondent Profile

	Count	Percentage
Total number of respondents	335	100%
Respondents who live in the Metro Vancouver region	321	96%
Responding on behalf of...	Organization: 50 Household: 285	Organization: 15% Household: 85%

Organization Type

The 50 respondents who completed the questionnaire on behalf of their organization, company or group identified their organization as the following types:

Organization Type	Count	Percentage
Waste and Recycling Industry	14	28%
Local Government, Government Agencies and Ministries	11	22%
Non-Governmental Organizations / Non-Profits	8	16%
Other	8	16%
Property Management	3	6%
Industry / Manufacturing	2	4%
Retailer	1	2%
Board of Trade / Chamber of Commerce / Business Improvement Association	1	2%
Construction Industry	1	2%
Education (high school and post-secondary)	1	2%
Total	50	

The following organizations identified their organization name:

Associated Labels and Packaging
BC Used Oil Management Association
BentallGreenOak
Binners' Project
BSIbio Packaging Solutions Inc
Business Council of BC
Cadillac Fairview
City of Burnaby
City of North Vancouver
City of North Vancouver
City of Surrey
Ecowaste Industries Ltd.
Empower Environmental Solutions

EZEE Hoarding Inc.
HSR Zero Waste
LandlordBC
North Shore Table Matters network
Recycling Committee of Marina Housing Co-op (multi-family building in Vancouver)
Regional District of Nanaimo
Rethink2gether
Revolution
Sea to Sky Removal
Squamish-Lillooet Regional District
Supernova Waste to Energy Inc.
Surrey Schools
Sustainabiliteens
Tri-Cities Chamber of Commerce
Tymac Launch Service Ltd.
Urban Development Institute
Vancouver Native Housing Society
Waste Management Association of BC
Willowbrook Recycling Inc
Willowbrook Recycling Inc
Zwapitico

Over the next 2-3 years, Metro Vancouver will provide progress updates and ask for feedback on aspects of the solid waste management plan update. How do you prefer to receive this information? Select all that apply.

How to Receive Information	Responding on behalf of organization	Responding on Behalf of Household	Total	Percent
Email	48	216	264	79%
Social Media	7	114	121	36%
Notices in news media	10	94	104	31%
Online presentation or meeting	23	56	79	24%
Mail	2	21	23	7%
Text message	1	24	25	7%

Do not want to receive updates	2	11	13	4%
Other	1	5	6	2%
Total Survey Respondents in this category	50	285	335	

How do you prefer to receive information ("Other"):

A online portal for the update process where I (or a set of randomly selected citizens) have a login & can weigh in as feedback is required, alerted via text, social and email when feedback rounds are live. Similar to "Talk Vancouver".
If online presentation, I would value the opportunity to ask questions and have a dialogue.
Metro Van website
Metro Vancouver website
Municipal newsletters, if exists.
Posters, billboards
Through MWRCC meetings and bi-annual or annual written updates to be able to provide to Mayor and Council
Twitter

How do you prefer to provide feedback on the solid waste management plan update? Select all that apply

How to Receive Feedback	Responding on Behalf of Organization	Responding on Behalf of Household	Total	Percent
Online via a questionnaire	36	226	262	78%
Email	33	133	166	50%
Online via a comment section	12	69	81	24 %
Online meeting or webinar	22	49	71	21%

In-person event at a community event (when safe to do so)	14	33	47	14%
In-person event at a nearby community center (when safe to do so)	12	34	46	14%
Mail-in survey	2	34	36	11%
Over the phone	10	11	21	6%
Other	2	3	5	1%
Total Survey Respondents in this category	50	285	335	

How do you prefer to provide feedback (“Other”)?:

(Online via questionnaire)...and comment section.
At places I already go, when I am in the active minset of consumption - like the mall or grocery store.
If there are relevant issues to the development industry, we could setup a meeting with you.
in-person event at Metro Vancouver offices
Mayor &/or councillors host a coffee & chat circle - e.g. like cops do at shops &/or drop in to strata Amenity room; carry forward views heard
Social media
Social media
Via an online portal as I've described above. Provides opportunity for higher quality feedback and deeper engagement. AND through existing waste-centric communities; tap local grassroots orgs to convene feedback sessions.
We can do a video conference meeting through ZOOM, TEAM or Skype.

What information do you need before providing feedback on solid waste management topics and issues?

Select all that apply:

	Count	Percent
Information about current solid waste management in the region	279	83%
Information on how solid waste is handled in other jurisdictions	200	60%
Copy of the previous solid waste management plan	169	50%
Not sure	40	12%
Other	38	11%

What information do you require to provide feedback on the solid waste management plan update ("Other")?:

1) Provincial and regional recycling and waste diversion statistics that are honestly prepared full chain of life audit and accountability; and 2) Full, true and plain disclosure about Metro's conflicting roles as industry regulator and competitor.
A more accessible breakdown of what the what Metro Vancouver's role is and what kind of feedback I can provide - like transport 2050 from translink
A synopsis of the major challenges of solid waste management and the major sources of solid waste that can not be recycled, reduced or reused.
annual recycling and waste reports for Metro Vancouver and City of Vancouver who look after VLF
any external jurisdiction/province/country if they have ideas proven to work well or better
best practices and how close we are to meeting them,
Comparative of the first 3.
Comparative table works; succinct content less jargon
Detail about the guiding principles of the initiative now, and any foundational assumptions which are not already made explicit in current documentation that is being shared.
Emerging issues, life cycle plans for solar panel replacements; lithium ion batteries at the end of life; life cycles of products that heavy metal and rare earth metals; solid waste from Port Authorities, others that I am still thinking about
Food Waste data for Metro Vancouver, including households AND HRI (Hotels, Restaurants and Industries)
From other countries who have been successful.
Future plans
Global best practices, what progress has MV made against the current plan, what are biggest problem areas
How solid waste is handled in other parts of the world by leaders in sustainability
How Stewardship Agency's can better work with Metro Van
How will recycling options for multi-unit residential buildings be improved and made easier for residents?
Ideally some information about key priorities staff/panelists have already identified as areas of focus
Information about future plans for solid waste
Information about what is in the new Plan
Information from researchers or schools on next gen/new tech solutions
Information on barriers of having certain materials recycled.
Information on how it is being improved in metro Vancouver
information on the key topics and issues Metro Vancouver is considering. The scope of the review.
Information on what's possible and the impact of these options eg, cost to taxpayers, toll on the environment
Information about current waste management in Germany
Latest research on impact of using an open 'blue box' for recycling plastics that can be blown out by the wind or taken out by animals. Responsibility when the blue box is emptied into the recycling truck and the loose bits of plastic fall onto ground.
Main highlights/summary of current solid waste plan and how the targets were met/not met since it was created. What are the troubles the old plan clearly does not address. What is the goal (zero waste)? What needs to happen to get there?
Maybe updated / current information that I may not be aware of
MetroVan rationale for the update
Most recent changes that have been brought into place.
N/A as already involved in MWRCC

none, have been studying the topic for decades
Other initiatives being planned.
Possible new solutions for next plan
Presentation / summary of previous solid waste plan
Proposed ideas and suggestions that you are currently considering.
Radical Success stories are very inspiring
Rationale for updating the plan; what are the current challenges we're trying to fix.
Research and statistics about behaviour around waste
Stop falsifying the information where exactly solid waste is going
the most effective solid waste disposal proposals in the world!
The process that Metro is undertaking to revise the SWMP (overall stages, guidelines, constraints, assumptions). Ideally in a shareable 2minute video format :)
The proposed changes from old to new swmp
understanding of current plans and stakeholders engaged in development of future plans.
What happens to the waste and recycling after it is picked up? If more info was available about where it goes and how it is handled, more residents would trust the system.
What the management plan is for recyclable and compostable flexible packaging systems
What you are seeking to change, and how it is different than current rules
Your answer to household soft plastic and when you will start picking it up from houses and also when you will work on education for non English speakers from experience they don't understand the recycling and lots gets in the trashcan.

Municipality where the organization, company or group I represent is based:

Municipality	Count	Percent
Bowen Island	1	0.3%
Burnaby	24	7%
Coquitlam	13	4%
Delta	4	1%
Electoral Area A	1	0.30%
Langley City	4	1%
Langley Township	9	3%
Lions Bay	4	1%
New Westminster	9	3%
North Vancouver City	15	4%
North Vancouver District	22	7%
Pitt Meadows	2	0.6%
Port Coquitlam	8	2%
Port Moody	3	0.9%
Richmond	8	2%
Surrey	16	5%
Vancouver	136	41%
West Vancouver	4	1%
White Rock	3	0.9%

Maple Ridge	10	3%
Other	10	3%
(blank)	29	9%
Total	335	

Are there any people in your organization, company or group who would need education materials or meetings translated into languages other than English in order for them to fully participate?

	Count	Percent
Yes	20	93%
No	311	6%
(Blank)	4	1%

If yes, which languages?

Cantonese	5
Mandarin	4
French	4
Spanish	3
Punjabi	1
Croatian	1
Greek	1
Hindi	1
Japanese	1
Korean	1
German	1
Tagalog	1
Vietnamese	1



April 29, 2021

Andrea Reimer, Chair

Solid Waste Management Plan Independent Consultation and Engagement Panel

Via E-Mail: zerowaste@metrovancover.org

Subject: Stakeholder Engagement for Metro Vancouver's Integrated Solid Waste Management Plan

Dear Ms Reimer,

I'm writing to you on behalf of the Waste Management Association of BC's (WMABC) concerning the Independent Panel's public and stakeholder engagement for Metro Vancouver's renewal of its Integrated Solid Waste and Resource Management Plan (ISWRMP).

We are pleased that Metro Vancouver has created and engaged a Solid Waste Management Plan Independent Consultation and Engagement Panel. On behalf of our members and the customers we serve in the MV region, we trust that our experience, input and active engagement would result in a collaborative approach that helps meet the region's sustainability goals. We would be remiss if we did not also raise the importance of the ICI&I generator. It is this sector that generates most of the waste in the Region and is one of the biggest challenges for waste diversion in Metro Vancouver. It has been our past experience that these consultations are often undertaken in absence of those who contribute to the various commodity or waste streams and ultimately bear the cost of the resulting policies.

By way of background, the WMABC is composed of private waste and recycling service providers, processors and suppliers with over 3,000 employees that provide a majority of the waste and recycling services across the province. As an active participant in the waste management services sector in B.C., we have and continue to provide a critical role in the delivery of efficient and cost-effective waste diversion, recycling and disposal services for the municipal and the IC&I sector.

As an industry, we are particularly proud of our leadership role in waste diversion across the province. The members of the WMABC have played a pivotal role in enhancing the diversion of materials in both the municipal and IC&I sectors by providing our strengths in logistics and infrastructure to collect and process these materials in an environmentally responsible manner and return them to the economy as secondary resources. We regard these as examples of a sustainable approach to resource reallocation and promotion of a circular economy.

We stand ready and willing to work to support yours and Metro Vancouver's goals and support our mutual interests. In the interim, should you have any immediate questions, please do not hesitate to contact us.

Regards

A handwritten signature in black ink that reads 'Josh J'.

Josh Jansen van Doorn

Committee Chair, WMABC

Waste Management Association of BC
PO Box 3322, Station Main
Mission, BC V2V 4J5
info@wmabc.ca 778-775-7960

May 5, 2021

Chair Sav Dhaliwal and Board of Directors
Metro Vancouver
Metrotower III, 4730 Kingsway
Burnaby, B.C. V5H 0C6

Via email: chair@metrovancouver.org, jfroese@tol.ca

RE: Metro Vancouver's Solid Waste Management Plan – Pre-Engagement

Dear Chair Dhaliwal and Director Froese,

Thank you for the recent letter announcing Metro Vancouver's intention to update your Integrated Solid Waste Management Plan and the desire to obtain input as part of a pre-engagement phase. Our two regions are highly interconnected. Not only do we share a border and a sensitive airshed, but the solid waste systems within each of our regions are inextricably integrated. Decisions made in one region affects the other, which is why collaboration, partnerships, and meaningful dialogue is so valuable.

The Fraser Valley Regional District (FVRD) is committed to working with all stakeholders on zero waste goals and promotion of the circular economy. The solid waste industry is ever changing, and we believe that new partnerships can emerge that will support sustainable solid waste management practices across our regions that are good for the environment, good for the health of our airshed, and good for the economy. Metro Vancouver's new solid waste management plan is an opportunity for our Regional Districts to find solutions to solid waste challenges we both face and to further support local waste diversion efforts and airshed protection priorities.

The FVRD welcomes the opportunity to participate and would like to learn more about the process, the options for providing feedback, the role of the Independent Consultation and Engagement Panel, and of course, the proposed content of the solid waste management plan itself.

For the benefit of the FVRD Board of Directors, we would like to invite Metro Vancouver and a representative of the Independent Consultation and Engagement Panel to present at the next FVRD Board meeting, scheduled for May 27, 2021 at 19:00. This appears to be the only opportunity to present to our Board before the pre-engagement process closes on May 28, 2021, as outlined in your letter.

Please contact Kristen Kohuch, Executive Assistant to CAO and Board of Directors at kkohuch@fvrd.ca to confirm participation at this meeting. We look forward to receiving information about your engagement strategy and to learn more about your new solid waste management plan.

Sincerely,



Jason Lum
Chair, Fraser Valley Regional District Board

June 9, 2021

Chair Dhaliwal and Board of Directors
Metro Vancouver
Metrotower III, 4730 Kingsway,
Burnaby, B.C. V5H 0C6

Via email: chair@metrovancouver.org, jfroese@tol.ca

RE: Metro Vancouver's Solid Waste Management Plan – Pre-Engagement Feedback

Dear Chair Dhaliwal and Director Froese,

Thank you for the delegation to the Fraser Valley Regional District (FVRD)'s Board on May 27, 2021 to speak on Metro Vancouver's engagement strategy for an updated Solid Waste Management Plan. The FVRD Board members appreciate the update and the opportunity to ask questions about this important initiative.

The FVRD is committed to working with all stakeholders to find solutions to solid waste challenges we all face. Below is a summary of the feedback from the FVRD regarding Metro Vancouver's proposed plan and consultation:

- **Development or utilization of additional incineration capacity** – The delegation stated that Metro Vancouver's focus is on "reducing, reusing, recycling, and advancing the circular economy. Metro Vancouver's goal is that it won't have to build additional (incinerator) capacity."

We interpret this to mean that Metro Vancouver has no current or long-term plans to increase the level of garbage incineration, either through expanded or new waste-to-energy facilities or by diverting additional solid waste to cement plants or other incinerators. We expect this intent will be reflected in the updated Solid Waste Management Plan. If this is Metro Vancouver's vision, the FVRD views this intention with great relief.

If our interpretation is incorrect, however, we expect that Metro Vancouver will clarify. We value your commitment to a positive, transparent engagement process, including an honest discussion about Metro Vancouver's plans for incineration so that this consultation can be meaningful and productive. The FVRD wants stakeholders to be fully informed if additional incineration, in any capacity, is still being contemplated for the future.

- **Impacts to neighbouring jurisdictions** – Our understanding is that the Province has instructed Metro Vancouver to consider how changes to their Solid Waste Management Plan, including draft waste flow bylaws, will limit the free-market flow of waste and consequently impact neighbouring jurisdictions. We assume Metro Vancouver will be commissioning a study to research this issue, and we ask that the FVRD be provided with the opportunity to be involved.
- **Time provided for feedback** – We respectfully ask that adequate time be provided to stakeholders for feedback and comments. We know that you acknowledge it can often take several weeks or longer for items or reports to be thoroughly reviewed by staff and then be discussed at the appropriate committee

or Board meeting. We appreciate Metro Vancouver's willingness to work with stakeholder timelines and capacities.

- **Communication method** – In general, the FVRD is open to using a variety of means in which to be consulted, but face-to-face staff meetings or workshops are preferable. We also hope delegations from Metro Vancouver to the FVRD Board will continue as this process moves forward to allow for interactions and dialogue between elected officials.

The FVRD supports a regional approach to waste management and recognizes that collaboration among local governments, Indigenous communities, the Province, and industry, is needed to succeed. We look forward to working with Metro Vancouver on identifying opportunities for partnerships and collectively build a circular and clean economy. Thank you for the opportunity to provide comments as part of this pre-engagement phase of the consultation.

Sincerely,



Jason Lum
Chair, Fraser Valley Regional District Board

cc: Honourable George Heyman, Minister of Environment and Climate Change Strategy
(ENV.Minister@gov.bc.ca)

Carol Danyluk, Section Head - Municipal Solid Waste, BC Ministry of Environment and Climate Change Strategy (Carol.Danyluk@gov.bc.ca)

Andrea Reimer, Chair of the Independent Consultation and Engagement Panel
(andrea.reimer@citizenandrea.ca)

July 7, 2021

File: PE-13-01

Chair Jason Lum
Fraser Valley Regional District
45950 Cheam Avenue
Chilliwack, BC V2P 1N6
VIA EMAIL: jlum@fvrd.ca; kkohuch@fvrd.ca

Dear Chair Lum:

Metro Vancouver's Solid Waste Management Plan – Pre-Engagement Feedback

Thank you for your letter dated June 9, 2021 (received by email June 11, 2021), providing the Fraser Valley Regional District (FVRD) Board's pre-engagement feedback on Metro Vancouver's solid waste management plan update. It was our pleasure to attend and present at the FVRD Board meeting on May 27, 2021. Metro Vancouver is committed to maintaining open and transparent communication with the FVRD, while working collaboratively to advance our common goals in waste reduction, diversion, and circular economy as we update the regional solid waste management plan.

Metro Vancouver strives to provide adequate time for feedback in each phase of engagement, as we understand that different audiences have varying needs and expectations. In this respect, Metro Vancouver recognizes that the FVRD and other government bodies often require several weeks for staff review, followed by discussion at scheduled committee or Board meetings. We also note your preference for face-to-face staff meetings and workshops; therefore, we would be happy to present and receive feedback at future FVRD Board meetings as requested.

Your letter also requests additional information on Metro Vancouver's future plans for waste-to-energy, as well as potential impacts of an updated solid waste management plan on neighbouring jurisdictions.

Waste-to-Energy:

Metro Vancouver considers waste-to-energy to be a cost effective and environmentally sustainable way to manage residual garbage. Metro Vancouver's solid waste management plan update will focus on reduction, reuse, recycling and advancement of the circular economy. Our goal as a region is to avoid the requirement for any new disposal capacity, waste-to-energy or otherwise, through the success of our waste reduction actions.

To further maximize the beneficial use of residual waste, Metro Vancouver is initiating procurement for an interim processing strategy of small load waste received at regional solid waste facilities, which

46211456

currently disposes as garbage. This waste is composed primarily of wood and other building materials, and the interim processing strategy would allow the material to be sent to existing construction and demolition facilities to recover recyclables and create an alternative fuel product from any residual material. This interim strategy will provide valuable information on environmental performance, including associated emissions reductions (expected to be up to 20,000 tonnes CO₂ equivalent per year), as Metro Vancouver considers a more permanent solution.

In late 2019, Metro Vancouver provided a summary of the alternative fuel and recyclables recovery project to stakeholders, and following the receipt of feedback including feedback from the FVRD, the project scope was updated to address air quality concerns and ensure the highest and best end use of available material.

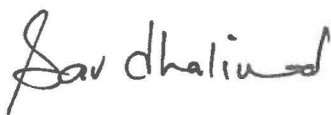
Waste Flows and Potential Impacts to Neighbouring Jurisdictions:

In consideration of Metro Vancouver's proposed *GVS&DD Commercial Waste Hauler Licensing Bylaw No. 207, 2017* and proposed updates to Metro Vancouver's private facility licensing bylaw (*GVS&DD Solid Waste and Recyclable Material Regulatory Amending Bylaw No. 309, 2017*), your letter expressed that the Ministry of Environment and Climate Change Strategy noted specific items they would be looking for in an updated solid waste management plan; in particular, the Ministry will consider how changes to the plan "may affect the solid waste management system, both within Metro Vancouver and in neighbouring regional districts". Potential impacts to neighbouring jurisdictions will be among the considerations in the development of a new solid waste management plan. We look forward to exploring these issues with adjacent regional districts including the FVRD through studies or other mechanisms.

In place since January 1, 2018, the Generator Levy requires waste haulers who deliver waste to a facility other than a Metro Vancouver or City of Vancouver solid waste facility to collect and remit the Generator Levy to Metro Vancouver. The Generator Levy ensures that all generators contribute to the cost of the regional solid waste management system in an equitable manner.

Thank you once again for taking the time to submit your feedback during the pre-engagement phase of Metro Vancouver's solid waste management plan update process. Your letter and Metro Vancouver's response will be included in a publicly available Zero Waste Committee report summarizing pre-engagement feedback. Pre-engagement feedback will inform an engagement program for the solid waste management plan update.

Yours sincerely,



Sav Dhaliwal
Chair, Metro Vancouver Board



Jack Froese
Chair, Zero Waste Committee

SD/JF/PH/sl
46211456

cc: Honourable George Heyman, Minister of Environment and Climate Change Strategy
Carol Danyluk, Section Head – Municipal Solid Waste, Ministry of Environment and Climate
Change Strategy
Andrea Reimer, Chair, Solid Waste Management Plan Independent Consultation and
Engagement Panel
Jennifer Kinneman, Chief Administrative Officer, Fraser Valley Regional District
Stacey Barker, Director, Regional Services, Fraser Valley Regional District

46211456



VILLAGE OF BELCARRA

"Between Forest and Sea"

4084 BEDWELL BAY ROAD, BELCARRA, B.C. V3H 4P8
TELEPHONE 604-937-4100 FAX 604-939-5034
belcarra@belcarra.ca • www.belcarra.ca



May 11, 2021

Sav Dhaliwal, Chair
Metro Vancouver Board
4730 Kingsway
Burnaby, BC V5H 0C6
Via email: chair@metrovancover.org

Dear Chair Dhaliwal,

Re: Metro Vancouver's Solid Waste Management Plan Update

Please be advised that at a Regular meeting of Belcarra Council held on May 10, 2021, the following motion was passed:

"That staff advise Sav Dhaliwal, Chair, Metro Vancouver Board that the preferred communication for Belcarra will be with Mayor Ross, the Chief Administrative Officer and a Councillor Wilder; and
That Belcarra representatives have the ability to connect with Metro Vancouver Zero Waste panel members; and
That a time frame be obtained for participation."

We look forward to working with you on Metro Vancouver's Solid Waste Management Plan Update.

Sincerely,

Lorna Dysart
Chief Administrative Officer

cc Jack Froese, Chair, Zero Waste Committee, jfroese@tol.ca
Sarah Evanetz, Division Manager, Strategy & Stakeholder Relations,
sarah.evanetz@metrovancover.org
Mayor Jamie Ross, Village of Belcarra, jross@belcarra.ca
Councillor Liisa Wilder, Village of Belcarra, lwilder@belcarra.ca

May 13, 2021

File No. 5360-01

Sarah Evanetz,
Metro Vancouver
4730 Kingsway
Burnaby, BC V5H 0C6

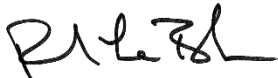
Dear Sarah Evanetz,

Re: Metro Vancouver's Solid Waste Management Plan Update

The City of Port Moody thanks Metro Vancouver for the opportunity to provide feedback on the engagement process as Metro Vancouver works to update the region's Solid Waste Management Plan.

For the City of Port Moody's ongoing involvement and support please continue to notify the City in writing as engagement opportunities arise, significant milestones are achieved, and throughout all key phases as the Solid Waste Management Plan updates evolve.

Yours truly,



Paul LeBlanc
Manager, Solid Waste, Fleet & Shared Services
Engineering & Operations

From: [Ralph McRae](#)
To: [Metro Vancouver Solid Waste Management Plan Update](#)
Cc: "Rob Deane [REDACTED]"
Subject: RE: Solid Waste Management Plan Consultation and Engagement
Date: Friday, May 21, 2021 11:01:15 AM
Attachments: [Metro Presentation Consultation May 2021.pdf](#)

WARNING: *This email originated from outside of our organization. Do not click any links or open attachments unless you trust the sender and know the content is safe.*

To: All Members of The Solid Waste Management Plan Independent Consultation and Engagement Panel ("Panel"), established by the Greater Vancouver Sewerage and Drainage District ("GVS&DD") Board.

Please assure that this email is timely delivered to all members of the Panel and advise me by return email when that has been done.

I received an unsolicited invitation to present to the Panel on May 17, 2021. By my email of May 1, 2021 I accepted that invitation. You replied on May 4, 2021 with the email below. Therein you state:

Please confirm whether this time slot works for you:

1:40pm-2:10pm on May 17, 2021

You will be allotted 10 minutes to present at approximately 1:40-1:50pm. You will enter a waiting room initially. [emphasis added]

I have presented many times to the GVS&DD Board and its Committees. It is your usual practice to provide me five quiet minutes to make my presentation, followed by a question and answer period. The process you outlined above, by all appearances, followed that pattern. Based on those clear instructions, I prepared a presentation that would take almost precisely 10 minutes for me to read to you. I wished to be respectful of your time and instructions and wanted to use only the 10 minutes allocated to me for that purpose. I anticipated the balance of the 20-30 minutes would be dedicated to questions, discussion or debate.

I have spoken to others who received the same invitation from you. Their expectations were no different than mine.

I was in the waiting room of the provided *Zoom* call link at precisely 1:40pm on the 17th instant. The meeting commenced slightly before 1:45pm. Mayor Froese opened with a greeting and introduction. At my first opportunity I told him my presentation would take slightly more than the 10 minutes allotted. He said nothing in direct response and proceeded to ask each of the Panel members on the call to introduce themselves. Those introductions dragged on for the better part of five minutes.

I was then asked to present. Two to three minutes into my 10 minute presentation, Mayor Froese interrupted me saying that the entire call was only scheduled to last 10 minutes and I needed to wrap up. I was shocked. The portion of my presentation read, without the context of the balance, would at best be confusing. I protested the interruption and truncation of time and explained the reason for my distress. All Mayor Froese could say was that he understood "how the instructions could have been misleading", or words to that effect. He then talked over me for the balance of the 10 minute call.

I have read your instructions several times now, both before and since. They are neither complex nor confusing. They provided me the opportunity to present for "10 minutes", not two. The promised opportunity was denied me.

What is even more troubling is that it quickly became obvious I was not the first person to raise this issue with you. Why then - when I had made it clear at the outset I intended to take the full 10 minutes to present - would you ignore me and eat up the majority of the time by telling me in great detail who you each were? That was not only disrespectful it, upon reflection, seems intentionally designed to further limit my time to speak.

My experience with GVS&DD consultations is that they are at best pro forma processes crafted to tick some legal box and convince the uninitiated that their voices have been heard. They are not consultative in the least. You may from time to time hear, but you never listen. After more than a decade of this the reason has become clear: you have an established agenda and have absolutely no interest in the advice, views or opinions of those you regulate and compete with unless – of course - they slavishly support that agenda.

I tried to outline for you a basis upon which Revolution and I could work with you to achieve a better outcome for a region we love and our business has supported for more than three decades. It's so very clear that you could care less about us or what we have to say.

But I can also see how tactics like these benefit you. They so frustrate your potential opponents that many lose the needed motivation to stay involved and your chosen path forward is cleared of obstacles. However, these matters are of such critical import to Revolution and our community that each time you behave so cavalierly, it only steels our resolve to shine the light on and oppose your selfish, misguided interests.

Being an eternal optimist, I prayed this time might be different and the inclusion of Andrea Reimer as Chair of the Panel actually gave me hope. Without her presence, history would have told me to not even waste any time on this. I can now clearly see that regardless of who is involved, you are once again pressing forward with a process bathed in disrespect and disdain for your constituents and that whatever plan you create will be as doomed to failure as those past. To quote Peter Townshend: *We Won't Get Fooled Again*.

Despite my better judgement I enclose the text of the presentation I had intended to make, for whatever twisted record you'll now fashion.

Sincerely,

Revolution

Ralph D. McRae

Chairmand & CEO



From: Metro Vancouver Solid Waste Management Plan Update

Sent: May 4, 2021 2:08 PM

To: Ralph McRae

Subject: RE: Solid Waste Management Plan Consultation and Engagement

Hi Mr. McRae:

Thank you for your interest in meeting with the Independent Consultation and Engagement Panel on May 17, 2021, to discuss how you would like to participate in the solid waste management plan update process over the next 2-3 years. The panel's role is to advise Metro Vancouver staff and Board on the development and implementation of the engagement process related to the solid waste management plan update.

Note at this initial stage of engagement Metro Vancouver is seeking feedback on how you would like to be updated and provide feedback on components of the new plan as it's being developed. This first step will help shape/design our engagement program moving forward. There will be many opportunities in the future to provide feedback on various components of the updated plan itself.

Please confirm whether this time slot works for you:

1:40pm-2:10pm on May 17, 2021

You will be allotted **10 minutes** to present at approximately 1:40-1:50pm. You will enter a waiting room initially.

Please reply to this email to confirm the following details:

- What group, organization or association do you represent?
- Will you have a PowerPoint presentation?
- How many people will be joining the call? Please provide names and position titles if possible.
- Please confirm your attendance, based on the information provided above and the time slot assigned.

Upon your reply to this email to confirm your meeting with the panel, you will receive a calendar invitation with Zoom meeting details and instructions.

Other ways to provide feedback:

Visit our solid waste management plan engagement [web page](#) to learn more and complete our 3-minute [questionnaire](#).

Sign up [here](#) to receive future updates and invitations to engagement events and activities. Be sure to click "Solid Waste Management Plan update" as a topic of interest.

From: Ralph McRae [<mailto:Ralph@mcragroup.ca>]

Sent: Saturday, May 1, 2021 12:05 PM

To: Metro Vancouver Solid Waste Management Plan Update <zerowaste@metrovancover.org>

Subject: Solid Waste Management Plan Consultation and Engagement

WARNING: *This email originated from outside of our organization. Do not click any links or open attachments unless you trust the sender and know the content is safe.*

As indicated on your website (<http://www.metrovancover.org/services/solid-waste/engagement/swmp/Pages/default.aspx>), I would appreciate the opportunity to speak to the Consultation and Engagement Panel on May 17, 2021.

Please let me know what time works best and provide contact information. My telephone number is below.

Ralph D. McRae



May 17, 2021
Metro Vancouver Consultation

I have two issues to address:

- First, the fundamental assumptions you use to justify your policies; and
- Second, the absolute necessity that you resolve your incompatible conflict as both my regulator and competitor.

Your past efforts at regulatory change failed because your real agenda was different than you claimed. You strove to protect your MSW disposal monopoly, not seek “Zero Waste”.

You present “source separation only” systems as a panacea because your industry supporters have for 40 years lived by them and because they will forever produce excessive levels of garbage for you to bury, burn and profit from.

Any initiative that conflicts with that approach – no matter how worthy - is besmirched, hampered and inevitably crushed. The result has been a lost decade.

I could go on for hours, but as time is short, I will focus on two specific real-World examples that, if you open your minds, will explain why you keep falling short of your goals.

RECYCLING RATES:

This is a QUOTE from your own Project Overview:

Today, the Metro Vancouver region recycles 63% of the waste generated (compared to a North American average of 26.5%...)

That is incredible. It’s also a bald-faced lie, and provably so. To say it you need to grossly manipulate statistics and ignore the truth. If you use this as the basis for your plan, it will once again fail. So now is the time to come clean and redefine the problem. There will not be another.

Here are some of the simple facts:

- You most recently claim 1.3M tonnes disposed and 2.2M tonnes recycled. That’s 63% of 3.5M tonnes. But the sectors you regulate: Residential and ICI, together generate less than 2M tonnes of all types of material.
- To create your bloated statis you throw in Construction & Demolition and claim it achieves a 77% diversion rate, yet your own reports show that every C&D recycling facility in the region is mired in the mid-20’s, or below.
- So, you have to jack up your numbers by adding 700,000 tonnes of concrete; something that is 100% recycled and you don’t even regulate. The same is true of metals. The result: 25% of your 63% is padding: 40% of your total.
- Why stop there. Start counting old cars and contaminated soils? You’re in the MUNICIPAL SOLID WASTE REGULATORY BUSINESS. LIMIT YOUR ANALYSIS TO THAT.

- But it gets worse. You also fail to do the most basic thing needed to drive reliable statistics: a comprehensive supply chain audit **through to end of life**. In your World, when 100,000 tonnes is delivered to a “recycler” you count the entire 100,000 tonnes as being recycled, even if – as is the case with plastics - 90% is landfilled or burned. It’s an environmental Ponzi scheme.
- You claim to enforce an Organics ban at your transfer stations, yet when Harvest Power failed in late 2018 you “temporarily” raised the acceptable organic content level per load 500% from 5 to 25%, and burned it. There are plenty of legitimate composters in the Region who would love to recycle that material. You do this because organics are heavy and you need the tipping fee revenue to balance your budget. Do you see the conflict?

Any plan must be built on a firm **and honest** foundation. You delude yourself to our collective detriment. Imagine telling every person in the Region that a new Metro COVID vaccine achieved a 100% immunity rate, with zero side effects. People would quickly forego all others for yours. What if you misled them knowing the true effectiveness was really 50%; half that? Of course, you’d never do that, so why lie about your recycling rates? They are really in the mid-30% range - not the stratospheric mid-60’s you claim - and when your voters figure this out they’ll be furious.

Here’s a shocking example of the truth:

- Recycle BC is mandated to achieve a 73% diversion rate. They last reported an astounding 78%. You, without more, say “bravo” and jam those bogus statistics into your numbers.
- Until last spring Recycle BC was operated by *Green by Nature*, a consortium that included Cascade Paper, Emterra (your transfer station operator) and Merlin Plastics.
- On April Fools Day last year, Recycle BC contacted us. They said they had several thousand tonnes of “mixed paper”, jammed into one of Emterra’s facilities that they simply couldn’t recycle. They asked if we could compost it so they could include that tonnage in their diversion stats. Otherwise, they had to landfill it, dropping their recycling rate well below the 73% threshold. They were in deep trouble.
- They told us the bales contained less than 5% plastic contamination. We asked to pick up a sample to test their claim.
- We took the bale to our MRF and picked through it. [Attachment “A”] 10-man hours later, here is the result: more than 40% plastic contamination. It’s garbage, not recyclable material.
- We told them the only way we could help was to manually process everything at a cost of over \$200 per tonne. As they pleaded with us to solve their problem it became clear they had a lot more material than they first admitted and were petrified they had a multi-million dollar disaster on their hands that was about to be exposed.
- Merlin’s main recycling facility is located on Gifford St in New Westminster. It is regulated by Metro and has strict limits on how much material can be stored there. But, ten blocks away – at 401 Salter Street - is a dilapidated warehouse and storage yard that as you can see on these Google Maps photos at Attachment “B” is littered with thousands of bales of contaminated paper and plastic.
- Salter Street is owned by an affiliate of Merlin and leased to yet another affiliate of Merlin. It is NOT regulated by Metro and to you might as well be China. By my

calculations it is the dumping ground for more than 10,000 tonnes of garbage. The very same type of waste Recycle BC tried to foist on us as recyclable material.

- The cost disposing of that contaminated mess would run well into the millions of dollars. You call it “recycled”.
- A few short months later, in the night of October 12, 2020 [Attachment “C”], a “**suspicious**” fire erupted at the secret Salter storage facility and, “ABARACADABRA”, all that “garbage” magically disappeared into our air shed. Search the *Global TV* video from that night. You’ll be shocked at what you see:
<https://globalnews.ca/news/7393536/massive-blaze-burning-in-industrial-area-of-new-wests-queensborough-neighbourhood/>
- Did you and Recycle BC back those numbers out of your recycling statistics? Go check.
- Just a few years ago that garbage would have been loaded into shipping containers and sent to Asia where it would have ended up in the *Great Pacific Garbage Patch*. You would have counted it as recycled back then too. When that game evaporated, nothing truly changed and unless you do, nothing soon will.

Anecdotally, when Harvest Power shut down two years ago and left **300,000** tonnes of organics rotting on Port land in Richmond, most driven below ground. It was effectively landfilled, not recycled; and it’s still there. Did you go back into your files and reverse those huge quantities out of your stratospheric recycling statistics? Of course not. The impact would have been huge.

Nowhere on Earth are municipal recycling rates as high as you claim they are here. What magical alchemy do we have in Metro Vancouver that doesn’t exist elsewhere? None, of course.

So why not just accept our real mid-30% rate and work to improve on it?

REGULATORY CONFLICT:

- Your first flow control effort in 2013 took dead aim at Revolution’s then new Vancouver MRF. You feared we would recycle the 300,000 tonnes of MSW you wanted to incinerate.
- That fight cost us millions, but we persevered. Today, the facility you so viciously derided, consistently recycles more 80% of the almost 200,000 tonnes it receives every year. We succeeded where others fail by doing things differently; and despite you.
- But your staff still can’t stand that we prevailed. They constantly harass us with petty inspections and make detailed drawings of our processes so you can emulate them in your new Coquitlam facility. You use your regulatory powers to spy on us and the confidential information you steal to compete with us.
- And here is how it manifests...
- On February 4, 2021 your Paul Henderson sent a letter to Revolution that included this graph [Attachment “D”]. It shows Revolution’s disposal tonnage at Metro dropping by 39% over 29 months, compared to an industry average of 6% he related to COVID. Essentially, Revolution cost Metro more than \$5M in tipping fees, and he was mad.
- He demanded that I explain the reason for the drop. To responded constructively to him I would have to divulge our confidential information to a competitor.
- He shortly thereafter reported me to Ray Robb, your Solid Waste Manager and head of enforcement. I then had a call with Ray, where I jokingly mocked him as a tool of the policy

group; which he has always claimed not to be. His shockingly honest reply: *Well, Ralph, you complain about your competitors and Paul is just doing the same.*

- On April 23, Ray Robb wrote, accusing us of shipping waste out of the Region around your system, violating the Generator Levy and, the greatest sin of all: costing you money. Not one thought was given to the prospect that we had actually figured out a better way to recycle. No curiosity. Just accusations.
- The truth is, we have been achieving dramatically improved recycling results and that chart proves it. You could care less, until it hits your pocket.

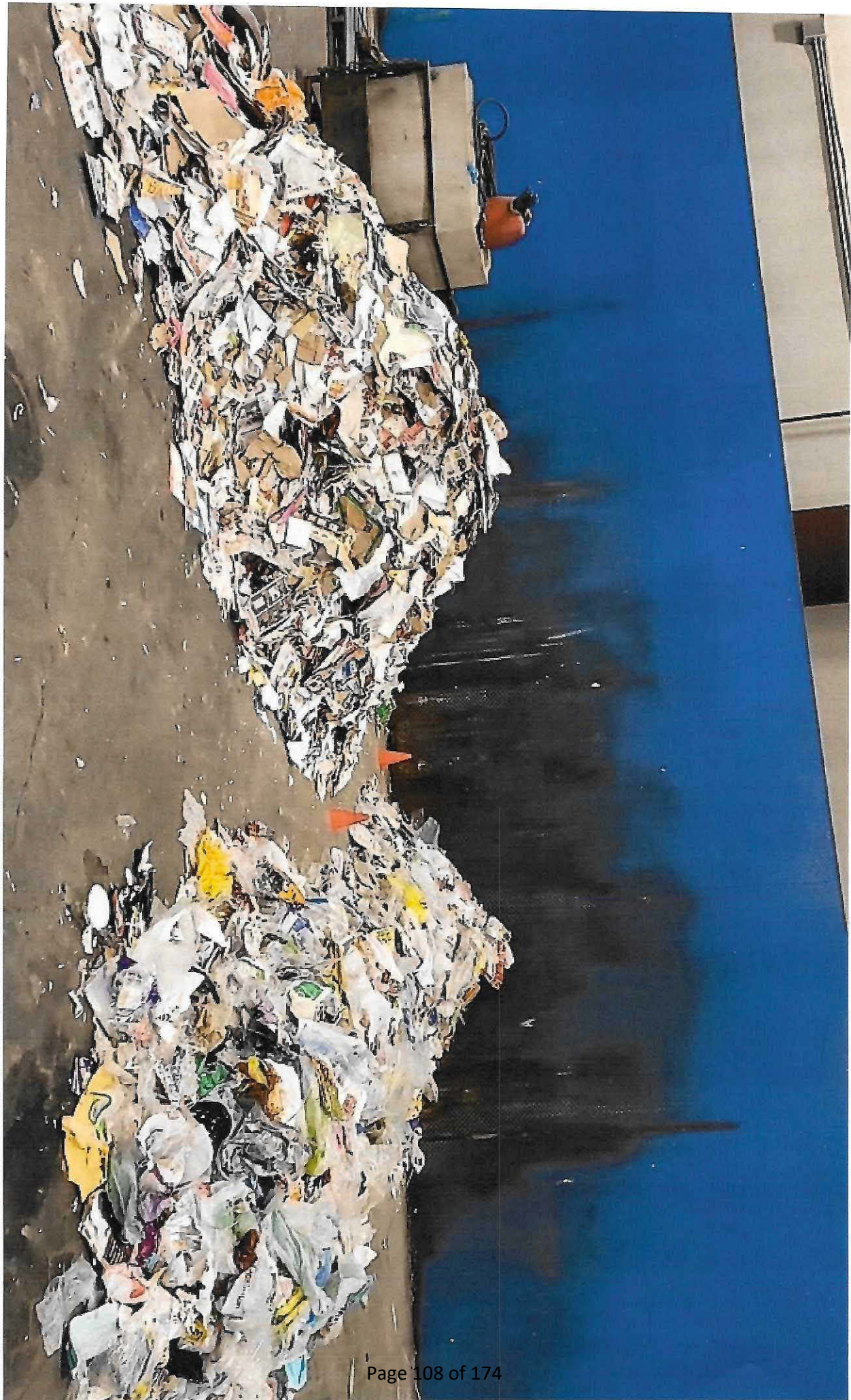
During the 2013 flow control debate that engulfed Revolution's facility, then Councillor Reimer asked one of the most commonsensical questions I've heard in this venue: *If their facility even gets 1% greater recovery than we otherwise would, and they are taking all the risk, why not let them try?* No one voiced the true answer: *Because they will steal tipping fee revenue from us and we won't be able to build our shiny new incinerator.*

That very facility – that your staff condemned in the harshest terms as a “Dirty MRF”, now out-recycles your real average by 250%.

It appears to me that nothing tangible has changed in the past ten years. You don't talk of incinerators anymore, but you still want all the garbage you can lay your hands on, regardless of the impact on recycling rates. When you fine someone for bringing recyclables to your transfer stations, you don't recycle it, you dump it in the pit and burn it. When are you going to admit that Zero Waste actually means Zero Metro and you can't tolerate that? Your only hope is to sell off your transfer stations and focus on constructive regulation and motivation.

Leaving these two issues unresolved dooms any plan you develop to failure. If, however, you come clean and your motivations are pure, I'm your biggest supporter.

Thank you for listening.



"A"

Aecon

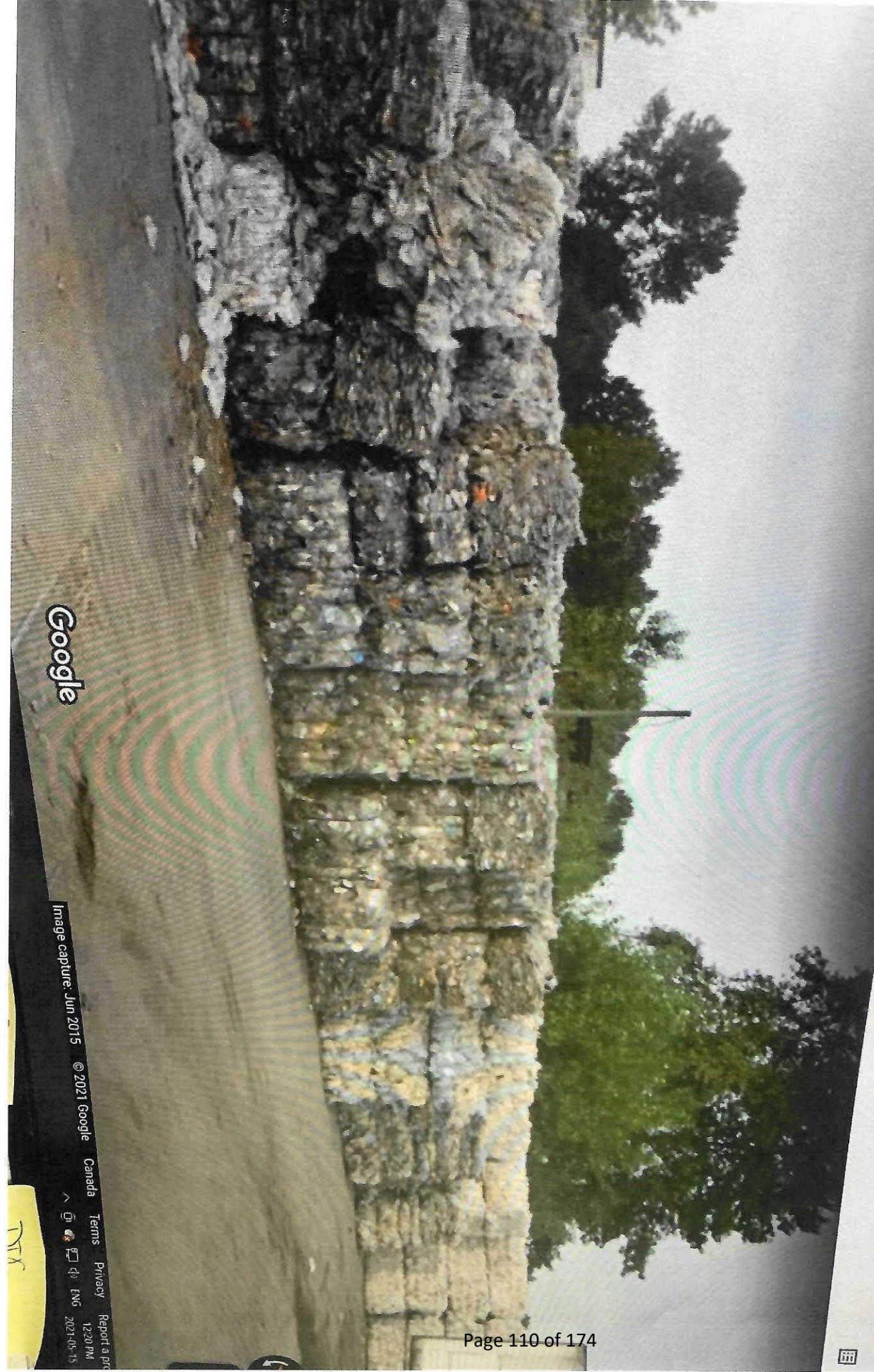


401 Salter St,
New Westminster, BC...



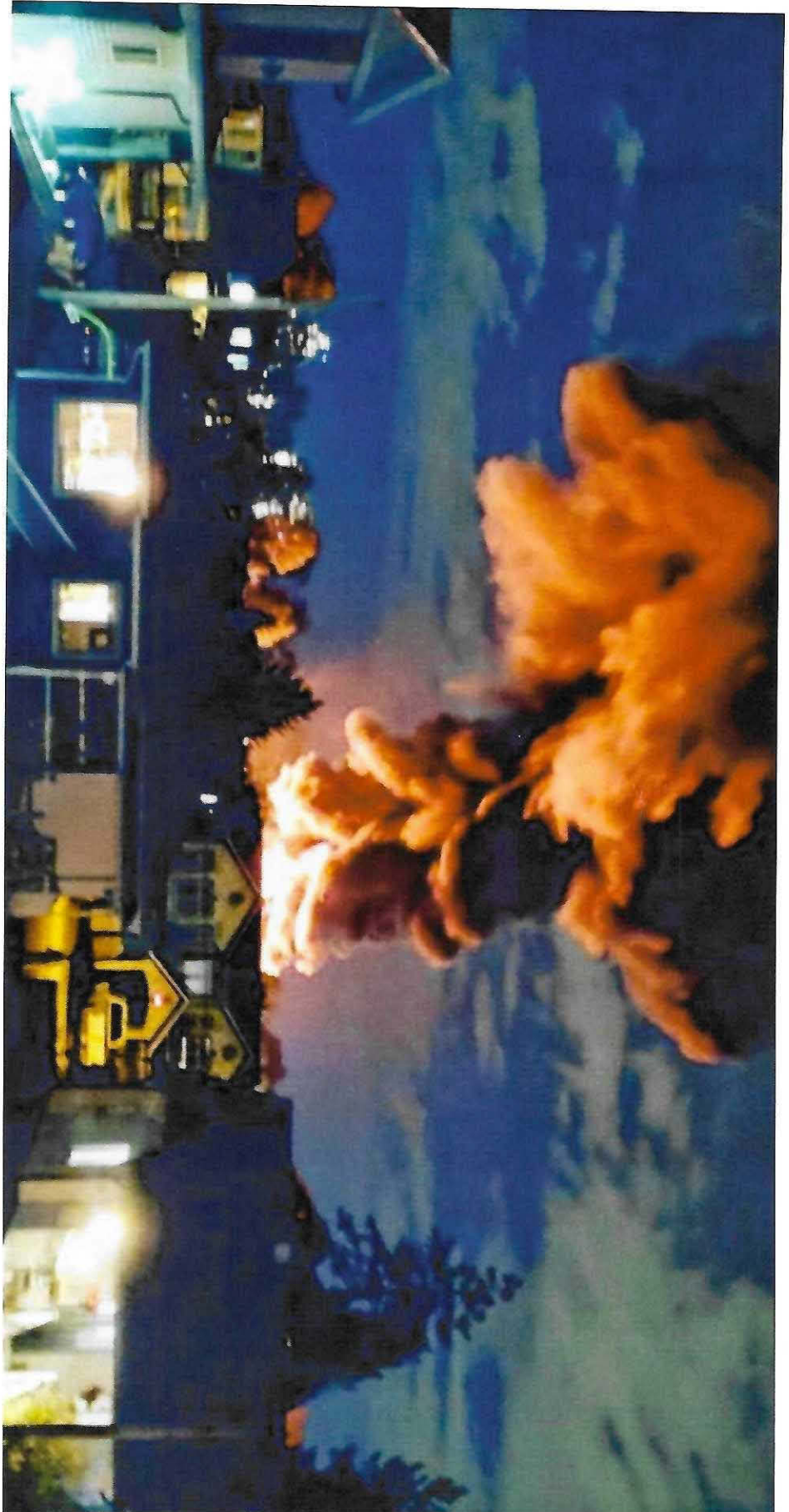
"B"

...ydata=i3m71e1i3m511sJ1zOE09LxyHY5sHY5qz6Q12e016shttps:%2F%2Fstreetviewpixels-p...
2-Henderson X
400 Saller St X
+
-
☆



Google

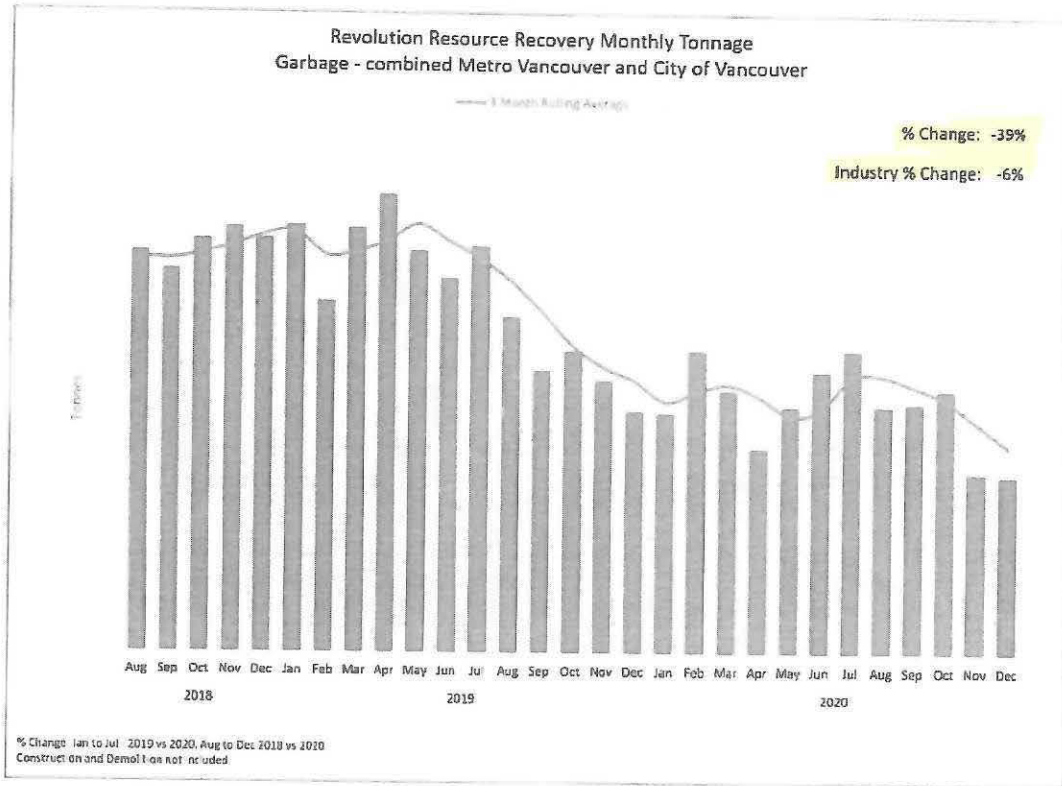
Image capture: Jun 2015 © 2021 Google Canada Terms Privacy Report a pr
12:20 PM 2021-05-15



"C"

401 SALTER ST.
NORWICH VEST.
OCT 12, 2020

Attachment: Revolution Waste Quantities at Metro Vancouver and City of Vancouver Solid Waste Facilities



"D"

43062772



June 23, 2021

The Solid Waste Management Plan Independent Consultation and Engagement Panel
Metrotower 3
4730 Kingsway
Burnaby, BC
V5H 0C6
Attn: Andrea Reimer, Chair

Dear Ms Reimer,

I want to thank you for providing an additional opportunity to present our input to your Panel. Your response is an important acknowledgement of the negative feedback you received. Nevertheless, I feel it is important to place on the record my concerns about our first appearance before your Panel.

On Monday, May 17th, our team from Waste Connections of Canada made a presentation to the Consultation and Engagement Panel. As I ended my comments, I specifically noted that I would be honest and forthright with the Panel throughout the process. In that spirit of honesty, I have to say I was taken aback and disappointed by the format of this so-called consultation and I want to express my dissatisfaction at this time, lest anyone be left with the misapprehension that this was properly handled.

Throughout the call, I was confused as to whether we had misread the invitation. But when we went back to verify, we discovered that the email stated, **"Please confirm whether this time slot works for you: 2:20pm-2:50pm on May 17, 2021. You will be allotted 10 minutes to present at approximately 2:20-2:30pm. You will enter a waiting room initially."** We prepared our presentation and allocated time according to those ground rules

We structured a 9-minute presentation, with a further 21 minutes remaining for what we assumed would be dialogue with the panelists. We joined the call at 2:20 pm and were informed that the 10 minutes included the time during which the panelists would introduce themselves. At 2:24 pm we were given the floor. We spoke until 2:29 pm, whereupon we were thanked and told that there would be no time for questions. I ended with a commentary that we want to be cooperative and helpful, although I was honestly not reassured by what had just occurred.

We were planning to expound on the elements of a consultation process to be followed-up with a thoughtful summary of our exchange. However, I am now left doubting the sincerity of this entire process and I want to go on the record to say that this does not constitute consultation by any reasonable definition of the word. We entered this consultation in good faith hoping to contribute to a

Canadian Region Office | 6220 Hwy 7, Suite 600 Woodbridge, ON L4H 4G3 | T:905-532-7510
wasteconnectionsCanada.com

process that we could buy into. We prepared to present ideas. We were misled and given the short shrift.

When we look back at the experience of the processes that led to Bylaws 280, as well as 307/8/9, we see a pattern of behaviour that seems to view Industry feedback as an inconvenience. The decisions appeared pre-baked and the process seemed intended to support an outcome, rather than shape an outcome.

I certainly hope that our next encounter with the Panel will prove to be an opportunity for true dialogue that will form the basis of an open and transparent consultation.

Sincerely,



Izzie Abrams
Vice President Government & External Affairs



July 7, 2021

Via email: icentre@metrovancover.org

The Solid Waste Management Plan Independent Consultation and Engagement Panel
Andrea Reimer, Chair
Metrotower 3
4730 Kingsway
Burnaby, BC
V5H 0C6

Thank you for the follow up email. We appreciated the opportunity to provide a more fulsome presentation.

In answer to your questions:

1. In the context of ongoing engagement, we would be interested to hear your thoughts on when you see the process ending – for example, when the plan is approved or as it is being implemented.

We believe engagement should continue through implementation albeit, it may be in a different format. It will be important to regularly check in with industry representatives to understand the impact on the ground and be able to make necessary adjustments.

2. The Industry Advisory Committee is one possible vehicle for engagement during plan development and implementation. When the draft Terms of Reference are published on July 9, we will forward you a link, and would be interested in your thoughts on whether it meets the tests you described for a successful framework for industry engagement.

We look forward to reviewing the Terms of Reference and hopefully to participating on the Committee. We would also like to take this opportunity to emphasize that WMABC does not represent Waste Connections of Canada or the industry as a whole. May we suggest you consider including representation from the Solid Waste Association of North America (SWANA) and/or the National Waste and Recycling Association (NWRA). Both associations are North America wide and as such view the issues through a broader lens.

Canadian Region Office | 6220 Hwy 7, Suite 600 Woodbridge, ON L4H 4G3 | T:905-532-7510
wasteconnectionsCanada.com

Again, thank you for the opportunity to respond. As discussed during our presentation, we will follow up by providing information with respect to baseline data for the purposes of consultation and engagement.

Regards,



Izzie Abrams
Vice President- Government Relations & External Affairs

SOLID WASTE MANAGEMENT PLAN ENGAGEMENT TIMELINE

Pre-Engagement

- Solid waste management plan pre-engagement (April 27 – May 28, 2021)
- Engagement on solid waste facility hours and tipping fee structure (June 28 – July 16, 2021)
- Engagement with waste and recycling industry on Industry Advisory Committee terms of reference
- Engagement on structure and membership selection criteria for solid waste management plan Public and Technical Advisory Committee(s)

Phase 1

Guiding Principles Engagement

Phase 2

Idea Generation Engagement

Phase 3

Options Analysis Engagement

Phase 4

Engagement on Draft Plan

Approval

Plan Approval

To: Zero Waste Committee

From: Paul Henderson, General Manager, Solid Waste Services

Date: July 9, 2021 Meeting Date: July 16, 2021

Subject: **Solid Waste and Recycling Industry Advisory Committee Draft Terms of Reference**

RECOMMENDATION

That the GVS&DD Board receive for information the report dated July 9, 2021, titled “Solid Waste and Recycling Industry Advisory Committee Draft Terms of Reference”.

EXECUTIVE SUMMARY

The Ministry of Environment and Climate Change Strategy has initiated a process with the Waste Management Association of BC and Metro Vancouver to address challenges and find opportunity areas to improve solid waste management in the region. An initial outcome of this effort is the formation of a Waste and Recycling Industry Advisory Committee (IAC), to act as a forum for industry contribution and advice on planning, operations and policy related to solid waste and recycling in Metro Vancouver. A draft terms of reference has been developed and will be circulated to recycling and waste industry stakeholders to seek any additional feedback. If the terms of reference are revised substantially following feedback, an updated version will be provided to the Zero Waste Committee.

PURPOSE

The purpose of this report is to update the GVS&DD Board (the Board) on the formation of the Solid Waste and Recycling Industry Advisory Committee and draft terms of reference.

BACKGROUND

In 2020, the Ministry of Environment and Climate Change Strategy initiated a dialogue with the Waste Management Association of British Columbia (WMABC) and Metro Vancouver on the current and future state of solid waste management in Metro Vancouver. A March 6, 2020 Zero Waste Committee manager’s report item introduced this collaboration. A series of interviews were conducted with key waste management stakeholders identified by WMABC and Metro Vancouver. Comments were received on a current-state assessment and options development for future-state solutions, relating to four outcomes:

- a. improve trust and effective working relationships across the waste management community;
- b. improve environmental outcomes;
- c. advance a fair, effective business climate for the waste and recycling services sector; and
- d. provide effective and efficient service delivery within the region.

The interviews revealed industry perspectives on desired outcomes for regional waste and recycling, and informed the scope and purpose of the IAC and draft terms of reference. The IAC is expected to convene in fall 2021.

TERMS OF REFERENCE

The draft Waste and Recycling IAC Terms of Reference outlines the IAC purpose and objectives, membership and chair, advisory structure and work plan, as well as meeting arrangements and procedures. The draft terms of reference are summarized below and attached to this report.

Purpose and Objectives

The purpose of the IAC is to provide a forum for industry to contribute to, discuss and provide advice on management planning, operations and policy issues related to solid waste and recycling services in Metro Vancouver. The IAC will act as a formal structure through which industry representatives receive information, provide advice, and channel feedback. The IAC provides Metro Vancouver an opportunity to engage the private waste services sector in constructive dialogue on key areas of interest, including the solid waste management plan update; however, the IAC is not intended to be the sole mechanism for industry engagement in the solid waste management process. The function of the IAC will continue beyond the approval of a new solid waste management plan.

Membership and Chair

The IAC membership will include an unlimited number of representatives of private waste and recycling collection and processing companies and their industry associations affected by existing and proposed operational and policy items related to solid waste and recycling plans, policies and services within Metro Vancouver. Membership will be voluntary, carries a one-year term, and will be self-selecting through an annual open call. Members of the IAC will not receive remuneration for their time; however, out-of-pocket expenses may be reimbursed by Metro Vancouver. It is expected that all IAC members act in good faith to present the experience and concerns that are reflective of their broader community. A code of conduct will guide the spirit and intent of how members should deliver on the IAC's purpose and objectives in a respectful, collaborative and transparent manner. Metro Vancouver staff will not be members of the IAC but will attend meetings to provide information and respond to questions.

There will be two IAC Co-Chairs. One will be selected annually by a vote of the IAC members and the other will be a Zero Waste Committee representative appointed by the Board Chair in consultation with the Zero Waste Committee Chair.

Advisory Structure, Decision Making and Work Plan

The IAC is an advisory body providing advice and recommendations to Metro Vancouver staff and, through the IAC Co-Chairs, to the Solid Waste Management Plan Independent Consultation and Engagement Panel Independent Consultation and Engagement Panel and the Zero Waste Committee. The IAC will strive for consensus on recommendations and advice, and a dispute resolutions process will be employed as necessary. The IAC is not intended to be a voting body, with the exception of the Co-Chair election, work plan confirmation, and any appeal during member dismissal.

The work plan will be developed by Metro Vancouver staff based on the requests of IAC members and confirmed by the IAC. The work plan may be amended from time to time to accommodate emerging priority or time-sensitive issues.

Meetings

Meetings for the IAC will occur monthly on a pre-set schedule within a calendar year determined by the Co-Chairs in consultation with IAC members, with the exception of July, August and December, with the opportunity to add or cancel meetings as required. The meetings will be structured to encourage free and open discussion of relevant issues within the parameters of the planned agendas. Meetings will be open to any individual who wishes to observe the discussions either in person or through video or teleconference, and the IAC may hear from invited guests. Agendas, minutes and presentations will be made publically available on Metro Vancouver's website. Individual IAC members will not speak to media on behalf of the IAC, unless it has been approved by the Co-Chairs in advance.

Circulation of Draft Terms of Reference

A draft term of reference has been developed collaboratively with WMABC representatives. To ensure others in the waste and recycling industry that are not a part of WMABC have an opportunity to provide input to the terms of reference, the draft will be circulated to waste and recycling industry stakeholders for feedback. If the terms of reference are amended substantially following that feedback, the updated terms of reference will be brought back to the Zero Waste Committee for information. It is expected that the terms of reference will evolve over time once the IAC is in place.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

Metro Vancouver will provide funding for general meeting and secretariat expenses, which can be carried out within existing operating budgets.

CONCLUSION

An IAC comprised of waste and recycling collection and processing representatives will be convened to provide a forum for industry contribution, discussion and advice on management planning, operations and policy issues related to solid waste and recycling services in Metro Vancouver. The draft terms of reference attached to this report for information outline the IAC purpose and objectives, membership and chair, advisory structure and work plan, as well as meeting arrangements and procedures. The IAC is expected to be formed in fall 2021.

Attachment

Waste and Recycling Industry Advisory Committee Terms of Reference

References

[Zero Waste Committee Agenda Package - March 13, 2020 \(metrovancover.org\)](#)

45890694

Solid Waste & Recycling Industry Advisory Committee

Terms of Reference **DRAFT**

1. PURPOSE

The purpose of the Solid Waste & Recycling Industry Advisory Committee (IAC) is to provide a forum for industry contribution, discussion and advice on management planning, operations and policy issues related to solid waste and recycling services in Metro Vancouver.

The purpose of these terms of reference is to describe role of the committee.

2. OBJECTIVES

The IAC will:

- Provide industry representatives with a formal structure through which they can receive information and provide management planning, operational and policy advice related to solid waste and recycling within Metro Vancouver;
- Provide Metro Vancouver with a venue to engage the private waste services sector on solid waste and recycling plans, policies and services within the region; and
- Provide affected industry stakeholders with the opportunity to be heard and to channel ongoing feedback to Metro Vancouver, including engagement on Metro Vancouver's solid waste management plan update process as well as other waste management issues of regional importance.¹

3. MEMBERSHIP

The IAC membership is comprised of representatives of private waste and recycling collection and processing companies and their industry associations affected by existing and proposed operational and policy items related to solid waste and recycling plans, policies and services within Metro Vancouver. A representative from the Zero Waste Committee will attend all IAC meetings and will be one of the Co-Chairs for the IAC.

Membership is voluntary, self-selecting and carries a term of 1 year. The initial open call for membership will be advertised on Metro Vancouver's website and through Metro Vancouver's solid waste industry mailing list a minimum of 45 days prior to the inaugural IAC meeting. An annual open call for new members will be advertised a minimum of 30 days prior to each anniversary of the inaugural committee meeting. Existing members that wish to continue participation on the IAC will be asked to re-submit their statement of interest annually.

All waste and recycling collection and processing industry representatives who express interest in participating in the IAC will be required to review the IAC Self-Selection Assessment Framework and

¹ The IAC is not intended to be the sole venue or mechanism for industry consultation and engagement on the solid waste management plan update. Although the IAC will provide feedback and advice related to the plan update process, the scope of the committee includes other regional solid waste management considerations and will continue beyond the approval of the solid waste management plan.²
See Appendix 1: IAC Self-Selection Assessment Framework and Appendix 2: Declaration Template

provide a written declaration² confirming agreement with, and the expressed intention to, work within this Terms of Reference. All individuals that complete this process will become members of the IAC.

4. EXPECTATIONS OF MEMBERS

- Members must be prepared to invest time and energy towards learning and understanding existing and proposed solid waste and recycling policies, practices, and bylaws, as well as the regional waste management system and issues associated with their administration and implementation.
- Members must be prepared to work constructively and collaboratively at committee meetings to address areas of mutual concern, recognizing the multi-faceted issues and interests of all impacted stakeholders. While it is recognized that private companies are not accountable to other members of their same industry, it is expected that all IAC members act in good faith to present the experience and concerns that are reflective of their broader community.
- Members must be prepared to commit the time required to attend monthly committee meetings, pre-read the agenda and all supporting material provided for each meeting, participate fully and constructively in committee discussions, and complete required actions and tasks on time.³ Members must provide advance written notice to the co-chairs if they are unable to attend a meeting. Members are not permitted to send alternate representatives if they are unable to attend a meeting.

5. CHAIRS

There will be two IAC Co-Chairs. The Zero Waste Committee representative will be a Co-Chair and a second Co-Chair will be selected annually for a term of one year by a 50%+1 majority vote of voting members present. Voting members are defined as IAC members who have held membership for at least one month prior to the day of the vote. The initial nominations for the co-chair will be held at the inaugural IAC meeting, with a vote to be held at the following IAC meeting. Subsequent co-chair selections will take place on the one-year anniversary of the member Co-Chair's appointment.

6. ADVISORY STRUCTURE & DECISION MAKING

The IAC is an advisory body, providing advice and recommendations to Metro Vancouver staff and, through the IAC Co-Chairs, to the Independent Consultation and Engagement Panel and the Zero Waste Committee. While sincere efforts will be made to achieve consensus on recommendations and advice, consensus is not a precondition to advancing committee recommendations. Where consensus exists it will be noted, and where it does not exist, minority opinions will be considered to have merit and will be noted as part of any advice being provided.

The IAC is not generally a voting body. Voting will only occur in the following four circumstances, and in these circumstances, there will be one vote allocated per company/entity represented:⁴

1. annual election of the co-chair;
2. updates to the terms of reference
3. confirmation of the annual workplan; and
4. during the appeal of member's dismissal, as described in section 10 of this Terms of Reference.

² See Appendix 1: IAC Self-Selection Assessment Framework and Appendix 2: Declaration Template

³ It is anticipated that this may represent a time commitment of 6 hours+ per month.

⁴ If there are multiple members representing a single company, they will be asked to convene among themselves to determine their collective vote.

In each of these scenarios, voting will be a 50 +1% majority decision-making model of votes cast.

7. WORK PLAN

A work plan for the IAC will be developed by Metro Vancouver staff based on an annual call for workplan topics submitted by IAC members reflecting priority issues they would like to see considered during the year. The work plan, once confirmed by the IAC, will guide development of meeting agendas for the year. The work plan may be amended during the year, at the agreement of both co-chairs, to allow for flexibility to address emerging issues or unanticipated, time-sensitive topics. Implementation of the annual workplan is at the prerogative of IAC members and does not direct activities of Metro Vancouver staff or resources, beyond the provision of committee secretariat support functions.

8. MEETINGS

- Meetings will be held monthly, except in July, August, and December, where no meetings will be held. The meeting dates and times will be determined by the Co-Chairs in consultation with IAC members, with a confirmed pre-set schedule for all meetings within the calendar year. The IAC may determine to hold additional meetings or cancel meetings as appropriate.
- Metro Vancouver will provide a venue, a third party note taker and refreshments for meetings, or as determined otherwise by the IAC. Where possible, virtual participation through video or teleconference will be provided as an option. Through 2021, all meetings may be held virtually depending on health protocols communicated by the Provincial Health Officer.
- The Co-Chairs will work with Metro Vancouver staff to draft meeting agendas and coordinate any necessary meeting materials, which will be circulated to meeting participants a minimum of 72 hours in advance of the meeting.
- The meetings will be structured to encourage free and open discussion of relevant issues within the constraints of the planned agendas.
- Meeting minutes and action trackers will be kept for each meeting, through secretariat support provided by Metro Vancouver staff.⁵ Minutes shall not reflect the names of individual speakers or their stance on issues; rather, they shall reflect the issues discussed, significant points of view on the issues and the resolutions or actions to be taken.
- A meeting quorum will be 50%+1 of active members.
- The IAC may establish other meeting procedures, which will be considered as an appendix to these terms of reference.
- Meetings will be open to any individual who wish to observe the discussions either in person or through video or teleconference, although only IAC members will be provided standing to participate in the discussion. Non-member stakeholders may request an opportunity to present to the IAC, through 2 weeks' advance written submission for consideration by the co-chairs.

⁵ Metro Vancouver staff are not members of the IAC, but will attend meetings of the IAC to provide information on various issues, respond to questions etc.

- The IAC may invite groups and subject-matter experts to present to the IAC and provide advice and feedback on specific IAC agenda items, at the discretion of the co-chairs.
- All IAC agendas will be published and publicly available in advance of meetings, with IAC presentations and meetings minutes posted for information on Metro Vancouver’s website.

9. CODE OF CONDUCT

This code is intended to serve as a framework to guide the spirit and intent of how IAC members are expected to deliver on the IAC’s purpose, objectives, and intent in an ethical and respectful manner.

1. **Respect and Collaboration:** Discussions and debates shall take place in an atmosphere of mutual respect and solutions-oriented collaboration, recognizing the value of different perspectives and seeking to understand the interests and needs of all affected parties.
2. **Transparency:** It is expected that all members speak honestly and transparently, engaging in good-faith dialogue and sharing information openly to encourage fact-based dialogue.
3. **Treatment of other Members:** Members of the committee have a duty to treat other members with respect during IAC meetings. Specifically, members have a duty to avoid:
 - a. Disrupting meetings by making continual interruptions or whispered asides;
 - b. Making offensive or abusive remarks directed at other members;
 - c. Impugning the motives of other IAC members or supporting staff;
 - d. Ignoring the legitimate direction of the co-chairs.

Members who object to the behaviour of another member as identified in this code of conduct are asked to identify their concerns immediately to the IAC co-chairs.

10. MEMBERSHIP DISMISSAL

IAC members must recognize the importance of their commitment through active participation, regular attendance and adherence to the IAC Terms of Reference. The following are potential reasons for membership dismissal.

- Failure to attend two or more consecutive monthly meetings, or,
- Lack of adherence to the IAC Terms of Reference, specifically including section 9: Code of Conduct, and Section 13: Media Protocol.

At the agreement of both co-chairs, members who have committed one or more of the potential reasons for losing membership may be dismissed from the committee by way of written notification. The dismissed member is ineligible for re-instatement at the subsequent annual call for membership.

If the member wishes to appeal the dismissal, they can request a vote from the IAC membership, to be undertaken using secret ballot. Voting will be a 50 +1% majority decision-making model. The impacted member is not eligible to vote in this process.

11. MEMBERSHIP RESIGNATION

Members wishing to resign from IAC committee membership should provide written notice of their intent to resign, including the effective date of their resignation, addressed to the IAC Co-Chairs.

12. BUDGET AND RESOURCES

Funding for general meetings, secretariat and support expenses is provided by Metro Vancouver. Any additional funding for special projects or studies is subject to Metro Vancouver approval.

13. MEDIA PROTOCOL

Individual IAC members will not speak on behalf of the IAC, unless it has been approved by the Co-Chairs in advance.

14. REVIEW OF THE IAC TERMS OF REFERENCE

The IAC will review this Terms of Reference at least every 18 months, for consideration on whether any amendments or modifications to the process are required. Proposed amendments will be provided to the Zero Waste Committee for approval.

APPENDIX 1: IAC Self-Selection Assessment Framework

IAC MEMBERSHIP REQUIREMENTS

The IAC membership is comprised of representatives of private waste and recycling collection and processing companies and their industry associations, affected by existing and proposed operational and policy items related to solid waste and recycling plans, policies and services within Metro Vancouver.

Membership is voluntary, self-selecting and carries a term of 1 year. All waste and recycling collection and processing industry representatives who express interest in participating in the IAC are required to review this IAC self-selection assessment framework and provide a written declaration (template attached) confirming agreement with, and the expressed intention to, work within the IAC Terms of Reference. All members that complete this process will become members of the IAC for a term of 1 year. IAC members that wish to continue participation on the IAC will be asked to re-submit their statement of interest annually.

INSTRUCTIONS

As part of the process in recruiting committee members for this important work, interested parties are asked to self-assess whether they hold the competencies, background and skills that will allow them to effectively and constructively participate as an IAC member. Please use the following assessment framework to personally assess your experience or level agreement level for each category. **There is no need to submit your completed assessment as part of your submission.**

IAC Self Selection Assessment Framework						
<i>(Rank from 1-5 with 1 being "do not agree" and 5 being "strongly agree")</i>						
SKILL	ASSESSMENT	1	2	3	4	5
Strategic, Long-Term Focus	I can view the process with a medium- to long-term lens, recognizing the complex policy environment of waste management in Metro Vancouver. I have a demonstrated ability to focus on longer term goals and strategic outcomes, as separate from day-to-day management and operational experience.					
Subject-Matter Expertise	I am familiar with the various aspects and policies of the waste management system in Metro Vancouver (as opposed to only having an interest in my specific line-of-business).					
Collaborative Approach	I have experience working in a collaborative and solutions-oriented manner, recognizing the multi-faceted issues and interests of all impacted stakeholders.					
Willingness to Learn	I am prepared to invest time and energy towards learning and understanding existing and proposed solid waste and recycling policies, practices, and bylaws, as well as the regional waste management system and issues associated with administration and implementation, even in situations where the topic does not directly affect my organization.					
Sector Representation	I can commit to focusing my participation on representing the broader interests and objectives of my sub-sector rather than my direct business interests.					
Curiosity and Critical Thinking	I have experience connecting ideas and concepts from different areas of knowledge, seek other points of view and am comfortable asking questions to clarify ideas and perceptions.					
Availability and Engagement	I can commit the time and effort necessary to: r attend monthly committee meetings, pre-read the material provided for each meeting, participate fully in committee meetings, complete required actions and tasks on time, and assume the consequences of my actions.					
Committee Experience	I have experience serving on private, non-profit, and/or public sector committees or boards, or am familiar with the general expectations and prepared to learn.					

APPENDIX 2: Declaration Template

Statement of Interest Declaration for IAC Membership

I, _____, representing

[Insert full name]

[business/organization]

would like to express my interest in participating as an active member on the Metro Vancouver Solid

Waste & Recycling Industry Advisory Committee (IAC) for a minimum term of 1 year.

I have read the IAC Terms of Reference and the IAC self-selection assessment framework and understand the membership criteria⁶, scope and expectations of membership. Through this signed

declaration, I confirm agreement with and declare an expressed intention to work within the IAC Terms

of Reference.

[Signature]

[Date]

[Printed Name]

⁶ IAC membership is comprised of private waste and recycling collection and processing companies and their industry associations, affected by existing and proposed operational and policy items related to solid waste and recycling plans, policies and services within Metro Vancouver.

Please print, complete, and scan this declaration form to xyz@email.com to submit your statement of interest for membership in the Solid Waste & Recycling Industry Advisory Committee. A Metro Vancouver staff member will send confirmation of receipt within 7 days.

To: Zero Waste Committee

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

Date: July 8, 2021 Meeting Date: July 16, 2021

Subject: **Solid Waste Services Capital Program Expenditure Update as of April 30, 2021**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated July 8, 2021, titled “Solid Waste Services Capital Program Expenditure Update as of April 30, 2021”.

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 2021, and includes the overall capital program for Solid Waste Services with a multi-year view of capital projects and the actual capital spending compared to the prorated budget to April 2021. For the first four months of 2021, the capital expenditures for Solid Waste Services were \$16.7 million compared to a 2021 prorated capital budget of \$32.6 million. The underspend is primarily due to longer than expected pre-construction phases for Waste-to-Energy Facility projects, and the property purchase timing for the North Surrey Recycling and Waste Centre depot development. Projects underway are expected to be completed within approved budgets.

PURPOSE

The purpose of this report is to report on the status of the Solid Waste Services capital program and financial performance to April 30, 2021.

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, Zero Waste, and Performance and Audit Committees in June/July, October/November, and a final year-end report to the Committees and the Boards in April of the following year.

This is the first report for 2021 and presents the overall capital program for Solid Waste Services with a multi-year view of capital projects and the actual capital spending from January to April 2021 compared to the prorated budget for this period.

2021 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.

Table 1 in Attachment 1 provides a summary of Solid Waste Services capital expenditures for both ongoing and completed projects. Completed projects include a summary of actual spending compared to the Board approved spending limits, while the ongoing projects include a summary of projected spending to completion compared to Board approved spending limits. With the rare exception, projects tend to complete with actual spending below the approved limits predominantly due to savings on budgeted contingency amounts. The majority of projects that were not started in 2021 are not scheduled to begin until 2022 or later.

Attachment 2 provides detail behind the summary information, including specific capital projects, summary financial information and notes. Attachment 3 provides additional project status information of some of the key projects.

2021 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 budget for the planned capital infrastructure projects. The annual capital budget comprises the projected spending for a list of capital projects either continuing or to be started within the calendar year.

For January to April 2021, capital expenditures for Solid Waste Services were \$16.7 million compared to an annual capital budget of \$32.6 million, representing an overall expenditure rate of 51%. The underspend is primarily due longer than expected pre-construction phases for a number of Waste-to-Energy Facility projects. The pre-construction phases include detailed design and third party engineering reviews. Biosolids management at the Waste-to-Energy Facility required approval by the Ministry of Environment and Climate Change Strategy. That approval is now in place. The 2021 budget includes funding for purchase of property for a recycling depot at the North Surrey Recycling and Waste Centre. Property acquisition is taking longer than planned, with the expectation that it will proceed in 2022. Construction is nearing completion for the United Boulevard Recycling and Waste Centre. Construction of the Central Surrey Recycling and Waste Centre began in July 2020 with completion anticipated by the end of 2021 or early 2022.

Table 2 in Attachment 1 provides a summary of the capital spending compared to the prorated capital budget as of April 30, 2021.

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

This is the first in a series of three capital expenditure progress reports for 2021. Solid Waste Services is underspent in its annual capital budget by \$16 million. The variance is primarily due to timing of the procurement phase for projects in progress.

Although the Solid Waste Services capital budget as of April 30, 2021 shows an underspend, the variance is a result of cash flow timing. Ongoing capital projects will be monitored to ensure they remain within total project budgets.

Attachments *(Orbit # 46274985)*

1. Capital Expenditure Summary – Solid Waste Services
2. Detailed Solid Waste Services Capital Expenditure Summary
3. Solid Waste Services Capital Project Status Information

46274985

Metro Vancouver

Capital Expenditures Summary

Solid Waste Services

As at Apr 30, 2021

Table 1 - Capital Program Summary by Status

Solid Waste Services	Total Budget	Total Projected Expenditures At Completion	Projected Remaining Budget
Ongoing	\$ 257,550,000	\$ 257,304,710	\$ 245,290
Completed	-	-	-
Not Started	257,850,000	257,850,000	-
Cancelled	-	-	-
	\$ 515,400,000	\$ 515,154,710	\$ 245,290

Table 2 - 2021 April Capital Spending Summary

Solid Waste Services	2021 Budget	Prorated Budget to April 2021	Actual Expenditures
Infrastructure Opportunity Program	\$ 2,050,000	\$ 683,000	\$ 81,743
Landfills	7,400,000	2,466,000	635,884
Recycling and Waste Centres	62,800,000	21,477,000	15,880,083
Wast-to-Energy Facility	24,000,000	7,998,000	53,799
	\$ 96,250,000	\$ 32,624,000	\$ 16,651,510

Metro Vancouver
Solid Waste Services Capital Expenditures Summary
As of April 30, 2021

Project Name	Project Location	Lifetime					Percent Complete	Status	Project on Schedule? Note	Comments
		Total Project Budget	Total Expenditures to Date	Remaining Budget	Projected Expenditures	Projected Remaining Budget				
Infrastructure Opportunity Program										
WTE Facility District Heating Opportunities	Burnaby	2,300,000	224,672	2,075,328	2,300,000	-	10%	Ongoing	Y	
		2,300,000	224,672	2,075,328	2,300,000	-				
Landfills										
Alternative Fuel and Recyclables Recovery Centre	Coquitlam	60,000,000	-	60,000,000	60,000,000	-	0%	Not Started	Y	
Coquitlam Landfill Closure*	Coquitlam	5,000,000	4,605,720	394,280	5,000,000	-	92%	Ongoing	Y	
Coquitlam Landfill East Closure	Coquitlam	5,000,000	-	5,000,000	5,000,000	-	0%	Not Started	Y	Dependent on area development
Coquitlam Landfill Fly Ash Cell 2 Closure Final Cover*	Coquitlam	3,200,000	2,942,982	257,018	3,200,000	-	92%	Ongoing	Y	
Coquitlam Landfill Gas Collection Upgrades*	Coquitlam	3,100,000	2,613,635	486,365	3,100,000	-	84%	Ongoing	Y	
Coquitlam Landfill Gas Collection Upgrades Phase II*	Coquitlam	3,600,000	2,851,247	748,753	3,600,000	-	79%	Ongoing	Y	
Coquitlam Landfill Lot 3 Development*	Coquitlam	5,000,000	-	5,000,000	5,000,000	-	0%	Ongoing	Y	
Coquitlam Landfill Pump Station Upgrade*	Coquitlam	800,000	97,158	702,842	800,000	-	12%	Ongoing	Y	
Coquitlam Landfill: Leachate Collection System Grade Realignment	Coquitlam	1,000,000	-	1,000,000	1,000,000	-	0%	Not Started	Y	
		86,700,000	13,110,743	73,589,257	86,700,000	-				
Recycling and Waste Centre System										
United Boulevard Recycling and Waste Centre Compactor	Coquitlam	2,500,000	1,919,492	580,508	2,400,000	100,000	77%	Ongoing	Y	
United Boulevard Recycling and Waste Centre	Coquitlam	77,600,000	58,919,893	18,680,107	77,600,000	-	76%	Ongoing	Y	Facility expected to open in summer 2021
Langley Recycling and Waste Centre Recycling Depot Expansion	Langley Township	5,500,000	-	5,500,000	5,500,000	-	0%	Not Started	Y	
Maple Ridge Recycling and Waste Centre Upgrades	Maple Ridge	2,000,000	-	2,000,000	2,000,000	-	0%	Not Started	Y	
North Shore Recycling and Waste Centre Compactor Replacement	North Vancouver	2,500,000	-	2,500,000	2,500,000	-	0%	Not Started	Y	
Central Surrey Recycling and Waste Centre	Surrey	62,300,000	24,042,470	38,257,530	62,300,000	-	39%	Ongoing	Y	Facility expected to open in spring 2022
North Surrey Recycling and Waste Centre Compactor Replacement	Surrey	2,500,000	-	2,500,000	2,500,000	-	0%	Not Started	Y	
North Surrey Recycling and Waste Centre Recycling Depot Expansion	Surrey	25,500,000	-	25,500,000	25,500,000	-	0%	Not Started	Y	
Western Region Recycling and Waste Centre Replacement	Regional	75,000,000	-	75,000,000	75,000,000	-	0%	Not Started	Y	
		255,400,000	84,881,855	170,518,145	255,300,000	100,000				
Waste to Energy Facility										
Acid Gas Reduction	Burnaby	41,000,000	450,000	40,550,000	41,000,000	-	1%	Ongoing	Y	Operational Certificate amendment pending
Biosolids Processing	Burnaby	20,500,000	330,202	20,169,798	20,367,710	132,000	2%	Ongoing	Y	
Bottom Ash Crane Replacement	Burnaby	1,500,000	-	1,500,000	1,500,000	-	0%	Not Started	Y	
Bottom Ash Processing	Burnaby	6,800,000	6,068,930	731,070	6,800,000	-	89%	Ongoing	Y	
Carbon Silo Replacement	Burnaby	2,400,000	-	2,400,000	2,400,000	-	0%	Not Started	Y	
Compressed Air System Replacement	Burnaby	3,000,000	-	3,000,000	3,000,000	-	0%	Not Started	Y	
District Energy	Burnaby	40,000,000	-	40,000,000	40,000,000	-	0%	Not Started	Y	
Electrical Transformers Replacement	Burnaby	5,000,000	-	5,000,000	5,000,000	-	0%	Not Started	Y	
Fabric Filter Hopper and Pulse Header Refurbishment	Burnaby	2,250,000	-	2,250,000	2,250,000	-	0%	Ongoing	Y	
Feed Hopper/Chute	Burnaby	2,600,000	1,121,722	1,478,278	2,587,000	13,000	43%	Ongoing	Y	
Fly Ash Silo Refurbishment	Burnaby	1,000,000	-	1,000,000	1,000,000	-	0%	Not Started	Y	
Generation Bank Replacement	Burnaby	9,000,000	-	9,000,000	9,000,000	-	0%	Not Started	Y	
Lime Silo Replacement	Burnaby	3,600,000	-	3,600,000	3,600,000	-	0%	Not Started	Y	
Primary Economizer Replacement	Burnaby	5,000,000	53,799	4,946,201	5,000,000	-	1%	Ongoing	Y	
Primary Superheaters Replacement	Burnaby	4,000,000	-	4,000,000	4,000,000	-	0%	Not Started	Y	
Programmable Logic Controllers Replacement	Burnaby	2,000,000	-	2,000,000	2,000,000	-	0%	Not Started	Y	
Pug Mill Enclosure Ventilation System Replacement	Burnaby	1,000,000	-	1,000,000	1,000,000	-	0%	Not Started	Y	
Refuse Crane	Burnaby	14,000,000	73,539	13,926,461	14,000,000	-	1%	Ongoing	Y	
Secondary Economizers Replacement	Burnaby	6,000,000	-	6,000,000	6,000,000	-	0%	Not Started	Y	
Stack Refurbishment	Burnaby	350,000	-	350,000	350,000	-	0%	Not Started	Y	
		171,000,000	8,098,192	162,901,808	170,854,710	145,000				
Grand Total Solid Waste Services		515,400,000	106,315,462	409,084,538	515,154,710	245,000				

NOTE:

* Coquitlam Landfill projects being completed as a part of the United Boulevard Recycling and Waste Centre construction project

Capital Project Status Information – Solid Waste Services**April 30, 2021**

Major GVS&DD solid waste capital projects are proceeding on schedule and within budget. Project details are highlighted below:

Recycling and Waste Centre Program

- The United Boulevard Recycling and Waste Centre construction started in May 2018 with site grading works. The full construction contract was awarded in December 2018. Construction is currently near completion with anticipated opening of the new facility in the summer 2021.
- The Central Surrey Recycling and Waste Centre project received rezoning and a development permit in late 2018. The construction contract was awarded in the summer of 2020. Construction was initiated in July of 2020. Construction is underway and expected to be completed by the end of 2021 or potentially early 2022, and operating in early 2022.

Landfills Program

- Construction of Phase 2 landfill gas collection system upgrades is being completed as a part of the construction of the United Boulevard Recycling and Waste Centre. The system has been designed as a combination of an active system at buildings and a passive system over the remainder of the recycling and waste centre site. Installation of the active gas wells was completed in 2019. Installation of the passive system along with laterals and header pipes for the active system was completed in late 2020. The new landfill gas infrastructure will be commissioned prior to United Boulevard Recycling and Waste Centre opening. A new control room and compressor at the blower flare station are required and procurement for this work is expected to start in 2021.

Waste-to-Energy Program

- The refuse crane replacement project commenced with preliminary engineering on February 14, 2019. The preliminary engineering report identified a funding gap which was addressed through the 2021 budget cycle. Covanta has submitted a detailed budget estimate which has been reviewed by a third party engineering firm. Covanta is now preparing procurement documents to for the next phase of the project which will include detailed design and the refuse crane purchase.
- The second pass superheater replacement project started on April 11, 2019. The replacement tubing has been received and installed on all three boilers. This project is now essentially complete pending final billing from Covanta.
- The feedwater pump replacement project commenced on May 3, 2019. The pump was installed in November 2019 and commissioned in January 2020. Covanta has worked with the pump manufacturer and the pump is now operating at full specifications. Final commissioning work was completed during the July 2020 outage. Covanta is now preparing a funding request to

replace the back-up feedwater pumps as they have reached the end of their useful life and require replacing.

- The feed hopper / chute replacement project started on October 28, 2019. Two feed chutes were installed in the fall 2020 shutdowns and one unit was installed in the spring 2021 shutdown. Two feed chute inlet hoppers will be replaced in 2021 and one in 2022 as they could not be completed during the same shutdowns as the feed chutes.
- The biosolids processing preliminary design project started on October 28, 2019. The preliminary design report is under review.
- The primary economizer project commenced with engineering and procurement services on November 6, 2020. The RFP is currently posted on BC Bid, closing on June 22.
- Compressed Air System Replacement Project: Covanta has shortlisted a proponent and issued a funding request for an engineering study to replace the compressors.
- Fabric filter hopper and pulse header refurbishment: Covanta is preparing procurement documents and will initiate an RFQ shortly.

To: Zero Waste Committee

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

Date: July 8, 2021 Meeting Date: July 16, 2021

Subject: **Draft Solid Waste Services 2022 – 2026 Capital Plan**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated July 8, 2021, titled “Draft Solid Waste Services 2022 – 2026 Capital Plan”.

EXECUTIVE SUMMARY

The draft 2022 - 2026 Solid Waste Services Capital Plan has been prepared following direction received at the April 8, 2021 Metro Vancouver Board Budget Workshop and as part of Metro Vancouver’s focus on enhancing transparency and governance over the capital plan. This is a new step in our budget process for this year and the intent is that the Zero Waste Committee provide feedback and input, which will then be incorporated into the fall budget presentations to the Committees and the Boards.

The estimated 2022 Capital Cash Flow is \$52.1M with a total estimated spend of \$283.0M over the five years. The 2022 Capital Cash Flow is \$24.2M (31.7%) less than last year’s projection for 2022, primarily because the Acid Gas Reduction project spending was deferred as a result of an amendment to the Waste-to-Energy Facility operational certificate. With respect to the common four years compared to the prior cycle’s capital plan, the estimated spend has increased by \$30.4M, or 15.0%. Changes in overall capital are primarily due to carry-forward of budgets for projects not completed in 2021. Actual budget increases were offset by deferrals of projects out of the capital planning window.

PURPOSE

To present to the Zero Waste Committee the draft Solid Waste Services 2022 – 2026 Capital Plan for input and feedback, which will then be incorporated into the fall budget approvals.

BACKGROUND

On April 8, 2021, Metro Vancouver held a Board Budget Workshop with the objective to seek direction for the preparation of the 2022 - 2026 Financial Plan. In addition, Metro Vancouver is looking to enhance the transparency and governance over the capital planning process and give the opportunity to the Committee to provide input and feedback earlier to be incorporated into the 2022 - 2026 Financial Plan.

Solid Waste Services

Solid Waste Services’ initiatives within the draft 2022 – 2026 Capital Plan are guided by customer levels 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 2022 - 2026 Capital Plan includes \$52.1M for 2022 and a total of \$283.0M over the five years, or an average of \$56.6M per year (Attachment 1). There are 39 projects and the largest six projects make up 66% of the capital spending over the next five years. The 2022 capital cash flow is \$24.2M (31.7%) less than last year's projection for 2022.

The primary reason for the reduction in 2022 cash flow is that the Acid Gas Reduction project has been deferred by three years as a result of an amendment to the Waste-to-Energy Facility operational certificate. Deferral of the acid gas reduction project allows for additional air monitoring to confirm ambient concentration levels of acid gases (hydrogen chloride and sulphur dioxide). Dispersion modelling submitted to the Ministry of Environment and Climate Change Strategy in December 2018 indicated that with current emissions and operational certificate permitted levels, maximum ambient air concentrations of hydrogen chloride and sulphur dioxide are not expected to exceed ambient air criteria. Nearly a year of ambient air monitoring data has shown ambient air concentrations of hydrogen chloride and sulphur dioxide are less than 5% of ambient air quality objectives and well below modelling results. Monitoring data has been posted monthly since December 2020 on the Metro Vancouver website and a consultant is being engaged to evaluate the data for reporting to the Ministry of Environment and Climate Change Strategy.

The spending over the next five years is driven by the need to improve the resiliency of the solid waste system, replace aging systems particularly related to the Waste-to-Energy Facility, and provide 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 systems. The Waste-to-Energy Facility District Energy system will substantially reduce greenhouse gas emissions in the region. The alternative fuel and recyclables recovery system will process small load waste which will increase diversion and reduce greenhouse gas emissions by offsetting fossil fuel use.

Key capital projects planned or ongoing in 2022 – 2026 for Solid Waste Services include the following:

- North Surrey and Langley Recycling and Waste Centre recycling depots
- Central Surrey Recycling and Waste Centre completion
- Waste-to-Energy Facility District Energy
- Waste-to-Energy Facility Biosolids Processing
- Alternative Fuel and Recyclables Recovery Centre
- Waste-to-Energy Facility Capital Replacement/Upgrade Projects:
 - Acid Gas Reduction
 - Refuse Crane Replacement
 - Special Handle Waste Direct Feed System

Initial funding for a western region recycling and waste centre replacement is included in the last two years of the financial plan with business casing, and needs assessment work to be brought forward for the Board's consideration in the coming years.

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

Capital Plan Changes

The completion of multi-year projects is complex and are subject to change, due to a variety of factors including schedule changes, inflation, market volatility and the impact of the COVID-19 pandemic. The breakdown of total revised 2022 – 2026 capital plan compared to prior cycle capital plan is summarized below:

(\$ Millions)

Prior Cycle Capital Plan 2021-2025	Cashflow 2021	Adjustments to 2022-2025 Capital Plan					Cashflow 2026	Draft Capital Plan 2022-2026
		Carry-Forward	Deferrals/Accel.	Risk	Scope	Total		
298.8	(96.3)	26.6	(20.1)	17.0	7.0	30.5	50.0	283.0

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The draft 2022 - 2026 Capital Plan includes \$52.1M for 2022 and a total of \$283.0M over the five years, an average of \$56.6M per year. Any feedback and input from the Zero Waste Committee will be incorporated into the fall budget presentations to the Committees and Boards.

SUMMARY / CONCLUSION

The 2022 – 2026 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 2022 – 2026 Capital Plan for Solid Waste Services provides the opportunity for the Zero Waste Committee to provide input and feedback which will be incorporated into the fall budget budget presentations to the Committees and Boards.

Attachment

Draft Solid Waste Services 2022-2026 Capital Plan (*Orbit #46483298*)

46250313

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
 CAPITAL PORTFOLIO
 SOLID WASTE SERVICES
 2022-2026 PROJECTED CASH FLOW

	ACTUALS ESTIMATED TO DEC 31 2021	2022 CAPITAL CASH FLOW	2023 CAPITAL CASH FLOW	2024 CAPITAL CASH FLOW	2025 CAPITAL CASH FLOW	2026 CAPITAL CASH FLOW	ACTIVE STAGE	PRIMARY DRIVER
CAPITAL EXPENDITURES								
Landfills								
Alternative Fuel and Recyclables Recovery Centre	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000	\$ 20,000,000	Feasibility Study	Opportunity
Coquitlam Landfill East Closure	-	-	400,000	3,500,000	1,100,000	-	Planned	Resilience
Coquitlam Landfill Gas Collection Upgrades	6,192,788	500,000	-	-	-	-	Construction	Maintenance
Coquitlam Landfill Lot 3 Development	2,000,000	-	3,000,000	-	-	-	Feasibility Study	Resilience
Projects under \$5M	-	200,000	800,000	-	-	-		
Total Landfills	\$ 8,192,788	\$ 700,000	\$ 4,200,000	\$ 3,500,000	\$ 2,600,000	\$ 20,000,000		
Recycling and Waste Centres								
Central Surrey Recycling and Waste Centre	\$ 41,755,223	\$ 16,000,000	\$ -	\$ -	\$ -	\$ -	Construction	Growth
Langley Recycling Depot Development	-	250,000	3,000,000	2,250,000	-	-	Design	Upgrade
North Surrey Recycling Depot Development	15,000,000	5,250,000	3,000,000	2,250,000	-	-	Design	Upgrade
United Boulevard Recycling and Waste Centre	77,400,000	200,000	-	-	-	-	Construction	Growth
Western Region Recycling and Waste Centre Replacement	-	-	-	-	5,000,000	30,000,000	Planned	Resilience
Projects under \$5M	-	200,000	4,300,000	-	2,500,000	-		
Total Recycling and Waste Centres	\$ 134,155,223	\$ 21,900,000	\$ 10,300,000	\$ 4,500,000	\$ 7,500,000	\$ 30,000,000		
Waste To Energy Facilities								
Acid Gas Reduction	\$ 450,000	\$ -	\$ 2,800,000	\$ 7,750,000	\$ 30,000,000	\$ -	Preliminary Design	Upgrade
Biosolids Processing	750,000	10,050,000	8,000,000	1,700,000	-	-	Design	Resilience
Bottom Ash Processing	6,600,000	200,000	-	-	-	-	Construction	Opportunity
Electrical Transformers Replacement	-	200,000	4,500,000	300,000	-	-	Design	Maintenance
Feedwater Pump Replacement	800,000	200,000	-	-	-	-	Design	Maintenance
Generation Bank Replacement	-	-	100,000	5,900,000	3,000,000	-	Planned	Maintenance
Refuse Crane	1,000,000	5,000,000	5,000,000	3,000,000	-	-	Construction	Maintenance
Secondary Economizers Replacement	-	250,000	1,750,000	3,000,000	1,000,000	-	Design	Maintenance
Special Handle Waste Direct Feed System	-	-	5,000,000	-	-	-	Planned	Opportunity
WTE Facility District Heating	-	5,000,000	15,000,000	20,000,000	15,000,000	-	Design	Opportunity
Projects under \$5M	3,600,000	7,550,000	10,550,000	2,550,000	2,400,000	-		
Total Waste To Energy Facilities	\$ 13,200,000	\$ 28,450,000	\$ 52,700,000	\$ 44,200,000	\$ 51,400,000	\$ -		
Opportunity								
Projects under \$5M	\$ 1,300,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -		

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
 CAPITAL PORTFOLIO
 SOLID WASTE SERVICES
 2022-2026 PROJECTED CASH FLOW

	ACTUALS ESTIMATED TO DEC 31 2021	2022 CAPITAL CASH FLOW	2023 CAPITAL CASH FLOW	2024 CAPITAL CASH FLOW	2025 CAPITAL CASH FLOW	2026 CAPITAL CASH FLOW	ACTIVE STAGE	PRIMARY DRIVER
Total Opportunity	\$ 1,300,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -		
TOTAL CAPITAL EXPENDITURES	\$ 156,848,011	\$ 52,050,000	\$ 67,200,000	\$ 52,200,000	\$ 61,500,000	\$ 50,000,000		

SUMMARY BY DRIVER								
Growth	\$ 119,155,223	\$ 16,200,000	\$ -	\$ -	\$ -	\$ -		
Maintenance	11,592,788	13,900,000	26,200,000	14,750,000	8,900,000	-		
Resilience	2,750,000	10,250,000	12,200,000	5,200,000	6,100,000	30,000,000		
Upgrade	15,450,000	5,500,000	8,800,000	12,250,000	30,000,000	-		
Opportunity	7,900,000	6,200,000	20,000,000	20,000,000	16,500,000	20,000,000		
Total	\$ 156,848,011	\$ 52,050,000	\$ 67,200,000	\$ 52,200,000	\$ 61,500,000	\$ 50,000,000		

To: Zero Waste Committee

From: Paul Henderson, General Manager, Solid Waste Services
Roy Moulder, Director, Purchasing and Risk Management, Financial Services

Date: July 9, 2021 Meeting Date: July 16, 2021

Subject: **Sea to Sky Soils Organics Management Contract**

RECOMMENDATION

That the GVS&DD Board receive for information the report dated July 9, 2021, titled “Sea to Sky Soils Organics Management Contract”.

EXECUTIVE SUMMARY

On April 30, 2021, the GVS&DD Board approved the award of a contract to Arrow Transportation Systems Inc. for the management of organics at the North Shore Recycling and Waste Centre. Metro Vancouver has subsequently entered into a contract with Sea to Sky Soils and Compacting Inc. (Sea to Sky Soils) to process approximately 6,000 tonnes per year of yard trimmings from the Langley and Maple Ridge Recycling and Waste Centres, and between 1,000 and 6,000 tonnes per year of single-family organic material from the North Shore Recycling and Waste Centre, to December 31, 2025. The contract will be cost neutral with an overall value over its 4.5-year duration of up to \$4,167,000 (exclusive of taxes). Entering into a contract with Sea to Sky Soils increases the resiliency of the regional organics management system by increasing the number of businesses providing organics management services to Metro Vancouver.

PURPOSE

The purpose of this report is to update the Zero Waste Committee and GVS&DD Board (the Board) on an organics management contract awarded to Sea to Sky Soils.

BACKGROUND

A combination of yard trimmings and single-family collected organics are managed at the North Shore Recycling and Waste Centre. The results of Request for Proposal No. 20-016: Organics Management at the North Shore Transfer Station were brought to the Zero Waste Committee at its April 16, 2021 meeting and the GVS&DD Board at its April 30, 2021 meeting. Staff recommended award of a 5-year contract to Arrow Transportation Systems Inc. (Arrow) for the operation of the drop-off area along with processing of the organic material. The Board approved award of the contract at a cost of up to \$17,428,425. The new contract results in a savings of approximately \$1.5 million per year compared to the previous arrangement where the service was delivered through four separate contracts. Arrow demonstrated substantial community support, providing letters of support from the Upper Similkameen Indian Band and the Town of Princeton, near where Arrow’s processing facility is located.

The report generated discussion at the Zero Waste Committee and Board related to Metro Vancouver's procurement processes along with interest in enhancing opportunities for businesses with strong local support and First Nations support and participation. The Board passed the following resolution:

That the GVS&DD Board recommend a review of Metro Vancouver's procurement process to better incorporate Metro Vancouver's stated values and Strategic Plan visions (including transitioning towards a circular economy, strengthening relationships with First Nations, food security, supporting local economies, and reducing GHG emissions).

Finance staff will report back through the Finance and Intergovernment Committee.

This report advises the Zero Waste Committee and Board that a contract has been entered into with Sea to Sky Soils to manage other organic material within the Metro Vancouver system.

ORGANICS MANAGEMENT CONTRACTS

Green waste from the Langley and Maple Ridge Recycling and Waste Centres is currently being loaded and hauled to the Vancouver Landfill for composting under a contract with Arrow. Under the terms of that contract, Metro Vancouver has discretion to change the processing locations and negotiate new hauling rates with the contractor. Staff have exercised that option. Arrow will now haul material to Sea to Sky Soils.

Metro Vancouver negotiated and has issued a contract to Sea to Sky Soils for processing approximately 6,000 tonnes per year of green waste from the Langley and Maple Ridge Recycling and Waste Centres, and between 1,000 and 6,000 tonnes per year of single-family organics from the North Shore Recycling and Waste Centre, to December 31, 2025. The unit rates in the contract are based on rates provided by Sea to Sky Soils in their submission to Request for Proposal No. 20-016. Additional trucking costs to deliver the yard trimmings to Sea to Sky Soils are offset by reduced processing costs. The single-family organics include material dropped off at the North Shore Recycling and Waste Centre that, under the contract with Arrow, can be allocated to another processor to encourage innovation, plus material that will be sourced from other municipalities dropping off single-family organics at the North Shore Recycling and Waste Centre. The end of the contract term will align with the Langley and Maple Ridge organics management contract with Arrow on December 31, 2025.

Entering into a contract with Sea to Sky Soils provides community benefits in the Sea-to-Sky Corridor, and helps provide Metro Vancouver with a robust and resilient organics management system through contracting with an additional organics processor.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The value for the Sea to Sky Soils contract over 4.5 years is anticipated to be up to \$4,167,000 (exclusive of taxes), depending on the actual tonnages processed. The contract is cost neutral due to offsetting processing costs, and because funding for residentially collected organics processed under the contract will be recovered from the municipalities using the service.

CONCLUSION

Metro Vancouver has entered into a contract to Sea to Sky Soils for processing approximately 6,000 tonnes per year of green waste from the Langley and Maple Ridge Recycling and Waste Centres, and a between 1,000 and 6,000 tonnes per year of residentially collected organics from the North Shore Recycling and Waste Centre. The total contract award to Sea to Sky Soils is estimated to be up to \$4,167,000 (exclusive of taxes) over 4.5 years. The contract will be cost neutral through reduced processing costs and recovery of costs from municipalities using the system. Entering into a contract with Sea to Sky Soils increases the resiliency of the regional organics management system through contracting with an additional organics processor.

46245233

To: Zero Waste Committee

From: Brent Kirkpatrick, Lead Senior Engineer, Solid Waste Operations, Solid Waste Services

Date: July 8, 2021 Meeting Date: July 16, 2021

Subject: **Waste-to-Energy Facility 2020 Financial Update**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated July 8, 2021, titled “Waste-to-Energy Facility 2020 Financial Update.”

EXECUTIVE SUMMARY

The Metro Vancouver Waste-to-Energy Facility continues to be an environmentally sound, low-cost regional disposal option. In 2020, the Waste-to-Energy Facility processed 244,362 tonnes of municipal solid waste, at a net unit cost of \$69.84 per tonne for operation and maintenance. The Waste-to-Energy Facility costs increased as compared to 2018 and 2019 primarily due to the decrease in processed tonnage, an increase in bottom ash disposal costs, and reduced electrical revenue due to scheduled maintenance. In 2018 and 2019 more than 75,000 tonnes of bottom ash was beneficially used in the construction of the United Boulevard Recycling and Waste Centre. In 2020, all bottom ash was disposed of at the Vancouver Landfill. A procurement process for long-term beneficial use of bottom ash is underway.

PURPOSE

The purpose of this report is to provide the Zero Waste Committee with a 2020 financial update for the Metro Vancouver Waste-to-Energy Facility located in Burnaby.

BACKGROUND

Annually, results of the operation of the Waste-to-Energy Facility and contract with Covanta Burnaby Renewable Energy, ULC (Covanta), including tonnages, expenditures, revenues, service level and performance, and unit costs, are provided to the Zero Waste Committee for information.

2020 WASTE-TO-ENERGY FACILITY FINANCIALS

Table 1 provides the past three years of expenditures for the Waste-to-Energy Facility. No debt charges were incurred in 2019 and 2020, due to completion of debt payments for the 2003 turbine generator installation. Total expenditures include operations and maintenance of the Waste-to-Energy Facility and ash management. Ash management costs were reduced in 2018 and 2019 with the beneficial use of bottom ash in the construction of the United Boulevard Recycling and Waste Centre from October 2017 to August 5, 2019, and increased to historic levels in 2020 with the return to landfill disposal. In total more than 75,000 tonnes of bottom ash were beneficially used as part of the construction of the United Boulevard Recycling and Waste Centre. Metro Vancouver has initiated procurement for long-term beneficial use of bottom ash.

Table 1: 3-Year Expenditures for the Waste-to-Energy Facility

	2018	2019	2020
Operating Cost	\$17,974,820	\$18,525,517	\$19,292,506
Fly Ash Disposal Costs	\$1,385,142	\$1,453,703	\$1,256,519
Bottom Ash Disposal Costs	\$257,461	\$559,382	\$2,016,633
Debt Charges *	\$879,800	\$0	\$0
Total Expenditure	\$20,497,223	\$20,539,052	\$22,565,658
Tonnage	253,123	253,148	244,362
Unit Cost / Tonne **	\$80.98	\$81.13	\$92.35

* Debt charges are payments for principles and interests on long term financing.

** Includes debt servicing costs (debt costs reduced to zero in 2019).

Table 2 outlines Metro Vancouver’s portion of offsetting revenues. Electrical revenue in 2020 was reduced, due to a scheduled turbine generator maintenance which occurs every six years. The turbine maintenance period was longer than anticipated due to pandemic-related supply chain challenges. This impacted electrical revenues. Metal revenue includes revenue from the non-ferrous metals recovery system that was installed in the fall of 2018 and commissioned in 2019.

Table 2: Metro Vancouver’s Portion of Electrical and Metal Revenues for the Waste-to-Energy Facility

	2018	2019	2020
Electrical Revenue	\$5,584,341	\$5,793,404	\$5,308,843
Metals Revenue	\$191,495	\$199,889	\$191,800
Tonnage	253,123	253,148	244,362
Unit Revenue / Tonne	\$22.82	\$23.68	\$22.51

Table 3 shows net cost per tonne for the Waste-to-Energy Facility from 2018 to 2020. An approximately \$12 per tonne increase in net costs were observed between 2018 to 2020. This increase is primarily due to the decrease in processed tonnage along with increased bottom ash disposal costs and reduced electrical revenue. The Waste-to-Energy Facility operates at maximum throughput, the annual tonnage processed is impacted by waste quality, equipment availability, and boiler outages. In 2020 the Waste-to-Energy Facility experienced electrical issues with the boiler air fans which reduced solid waste processing capacity, this electrical issue was rectified in January 2021.

Table 3: 3-Year Net Unit Cost for Operation and Maintenance of the Waste-to-Energy Facility (including debt servicing)

	2018	2019	2020
Unit Cost / Tonne (from Table 1)	\$80.98	\$81.13	\$92.35
Unit Revenue / Tonne (from Table 2)	\$22.82	\$23.68	\$22.51
Net Unit Cost / Tonne	\$58.16	\$57.45	\$69.84

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The Waste-to-Energy Facility costs increased in 2020 relative to 2018 and 2019 primarily due to the decrease in processed tonnage along with the increase in bottom ash disposal costs and reduced electrical revenue, due to scheduled maintenance. Metro Vancouver continues to work with Covanta to minimize facility costs and, overall, the Waste-to-Energy Facility continues to be a cost-effective regional disposal option.

CONCLUSION

Expenditures in 2020 for the Waste-to-Energy Facility totaled \$22.6 million, resulting in an expenditure of \$92.35 per tonne. Metro Vancouver’s portion of electrical and metals revenues totaled \$5,500,643 or \$22.51 per tonne. Based on the plant processing 244,362 tonnes of municipal solid waste, the net unit cost per tonne for operation and maintenance of the Waste-to-Energy Facility in 2020 was \$69.84 per tonne. Tipping fee revenues are accounted for separately and are not included in this analysis.

45762242

To: Zero Waste Committee

From: Larina Lopez, Division Manager, Corporate Communications, External Relations
Jay Soper, Communications Specialist, External Relations

Date: May 19, 2021 Meeting Date: July 16, 2021

Subject: **2021 Regional Clothing Waste Reduction Campaign Results**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated May 19, 2021, titled “2021 Regional Clothing Waste Reduction Campaign Results.”

EXECUTIVE SUMMARY

Now in its third year, Metro Vancouver’s “Think Thrice About Your Clothes” (“Think Thrice”) behavior change campaign, performed strongly in terms of engagement and the number of Metro Vancouver residents reached. The campaign’s goal is to increase diversion of textiles from the waste stream by raising awareness of the textile waste problem and empowering residents to take action. The creative platform included updates to key messaging and ad creative based on post-2020 campaign research and focus group testing. The strategy included both broad reach and targeted digital tactics and delivered over 69 million impressions. Overcoming barriers and effecting long-lasting behavior change can take several years to achieve and requires a long term commitment. However, a range of indicators can be employed to measure campaign efficacy over time, including engagement, public attitudes research, and changes in clothing disposal identified through annual solid waste composition studies.

PURPOSE

To update the Committee on the results of the 2021 regional clothing waste reduction campaign, “Think Thrice About Your Clothes.”

BACKGROUND

Clothing is one of the fastest growing waste streams due to rapidly changing fashion trend cycles and low prices, leading to increased clothing consumption and disposal. Approximately 20,000 tonnes of clothing waste is disposed annually in Metro Vancouver, despite local options to swap, sell or donate unwanted clothing. Metro Vancouver residents throw out an average of 8 kg of clothing per person per year, equivalent to the weight of 44 t-shirts per person per year.

2021 marked the third year of the Think Thrice campaign, a behaviour change campaign which supports Metro Vancouver’s commitment to zero waste. Overcoming barriers and effecting long-lasting behavior change can take several years to achieve and requires a long term commitment. While tangible results can also take several years to identify, they can be measured through campaign engagement, public attitudes research, and clothing disposal metrics identified through Metro Vancouver’s annual waste composition studies.

This report provides an update on the results of the 2021 Think Thrice campaign, as identified in the 2021 Zero Waste Committee Work Plan.

2021 REGIONAL “Think Thrice About Your Clothes” CAMPAIGN

Campaign Timing

The campaign was in market February 22–May 2, 2021, with some elements (e.g. Google Search) in-market all year long. This report covers results of the Think Thrice campaign from February 22–May 2, 2021.

Campaign Approach

This is the third year of Metro Vancouver’s regional clothing waste reduction campaign using the “Think Thrice” platform. The campaign’s objectives are to raise awareness of the clothing waste issue and empower residents to take action to reduce their textile waste (reduce, repair, donate/recycle).

The 2021 campaign focused on hopeful and action-oriented messaging, while addressing associated barriers to adopting desired behaviours. Insights from the 2020 campaign and post-campaign research were leveraged to refine the audience demographics, adjust campaign messaging and creative and strengthen associated calls to action. Audiences were directed to the corresponding areas of the www.clothesarentgarbage.ca website, based on the particular message being delivered.

While the campaign targeted all Metro Vancouver residents, the primary audience was adults aged 18–64, with a secondary segment of adults aged 18–34 who were identified as above-average shoppers also being targeted. Additional emphasis was put on reduce and reuse options this year for all audience demographics.

Website

The campaign website was refreshed to ensure continued accuracy and accessibility, add new video content, and adjust messaging to ensure understanding of both clothing donation and recycling options. The campaign website focuses on three main areas of messaging:

- Reduce – tips for identifying quality items when purchasing new or second-hand clothing, including rental options.
- Repair – tips for better care and repair of clothing, including laundry and stain removal, as well as clothing repair and alteration options and ideas.
- Donate/Recycle – what to do with unwanted clothing, including information on reselling, repurposing, recycling and donating.

Media Plan

A combination of digital and out-of-home targeted placements were employed to reach residents throughout Metro Vancouver. Tactics included digital (YouTube, Facebook, Instagram, Spotify, sponsored content in The Daily Hive, search ads, an interactive Facebook Live Series), a television PSA, and out-of-home (transit shelter ads, bus sides). New for 2021 were the Spotify video ads intended to reach the 18-34 demographic and the television PSA which was featured on a variety of TV networks available to Telus and Shaw subscribers. All tactics drove residents to the campaign website (www.clothesarentgarbage.ca).

Community Outreach

While outreach events have been included as a tactic for this campaign in previous years, in-person events were not pursued this year due to COVID-19 and public health protocols.

Facebook Live Virtual Events

The Facebook Live events provided an opportunity to feature a variety of guest speakers and subject matter experts to engage residents on a range of clothing campaign related messaging and topics between February and March, 2021. In total, five events were executed virtually, with the host and guest speakers conferencing in from their respective home or work locations via computer.

Each segment covered a different clothing waste reduction-related topic and provided opportunities for residents to engage with subject matter experts to ask questions in real time. The live stream videos were subsequently posted to Metro Vancouver's Facebook page after each segment, where they generated additional engagement. Topics covered included common clothing repairs, thrifting, shopping online for clothes that last and fit, and organizing your closet. The events also highlighted a few clothing organizations that are tackling clothing waste.

Engagement of Metro Vancouver Members

Campaign materials were made available to all Metro Vancouver members, including social media content and co-branded assets like posters and digital transit shelters. Several members used the materials on their social media channels and throughout their municipalities.

Results

Website Traffic

- The campaign webpages had 24,899 page views (400+ page views/day) from February 22–May 2, 2021.
- The majority of users (over 70%) accessed the campaign website via a mobile device.
- Besides the landing page, the most visited pages were within the donation section of the website (i.e. 'Where can I donate my clothes'), indicating there's still a need to focus campaign messaging on providing information about what clothing can be donated and where.

Earned Media

The campaign received additional media coverage beyond paid advertising from late winter to spring 2021, with approximately 90 total earned media hits. A mid-April article was circulated nationally via the Postmedia network, with broad pickup in online community papers and print editions in the Vancouver Sun and Vancouver Province. Earned media coverage reached a cumulative audience of approximately 3,139,500 people, and had an estimated ad equivalency value of about \$36,123 CAD.

Digital Media Performance

- The digital components delivered 7.8 million impressions overall, the majority of which came from Facebook and Instagram.
- YouTube video ads reached a total of 528,201 people, generating over 755,700 video views.
- The Daily Hive sponsored content article had over 5,969 reads, and had over 4,000 engagements (comments, reactions, clicks and shares).
- Spotify video ads ran for a shorter two-week flight (March 22–April 4) and reached over 40,000 people.

NG Media PSA

- The NG Media PSA was aired a total of 2,084 times, receiving a total of 1,456 spots on Telus and 628 spots on Shaw.

Out-of-Home Placements

- Transit shelters and bus side ads throughout the region delivered over 60 million impressions.

Facebook Live

- The five livestream events generated over 16,000 video views and 1,991 post engagements (likes, shares, comments, etc.).
- The livestream events continue to be an effective interactive element to support campaign objectives.

Plans for 2022 Regional Campaign

The campaign will run again in early 2022. It will likely continue to use the existing creative platform, with continued evolution of messaging and ad creative. The target audience and key messages are to be determined, but will be based on insights from 2021's campaign, post-campaign research and any additional data from Solid Waste Services.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The 2021 clothing campaign was provided within a budget of \$160,000 supported under the Zero Waste Communications Program of the 2021 General Government budget, managed by the External Relations Department. The campaign generated approximately \$36,000 CAD worth of additional publicity through earned media.

CONCLUSION

This is the third year of Metro Vancouver's clothing waste reduction behaviour change campaign using the "Think Thrice" platform. The campaign's objectives were to raise awareness of the clothing waste issue and empower residents to take action to reduce their textiles waste (reduce, repair, donate/recycle). The campaign was in-market from February 22–May 2, 2021, with some elements (e.g. Google Search) running throughout 2021.

A range of indicators can be employed to measure campaign efficacy and behavior change over time, including engagement, public attitudes research, and changes in clothing disposal identified through Metro Vancouver's annual solid waste composition studies. The 2021 "Think Thrice About Your Clothes" campaign performed strongly in terms of engagement and the number of Metro Vancouver residents reached. These indicators, along with additional research, will inform future iterations of the Think Thrice campaign and provide the ability to measure behavior change over time.

Attachments:

1. Posters
2. Transit Shelters
3. Bus Sides
4. Social Media Ads
5. Facebook Live

References:

1. [Textiles Waste Reduction Website](#)
2. [Clothing Waste Reduction PSA](#)
3. [Facebook Live Event: Finding Clothes Online That Last and Fit – March 3, 2021](#)

45879456

Posters

metrovanancouver

QUALITY NEVER GOES OUT OF STYLE.



Bought 2002. Last worn yesterday.

Find out how to identify clothes that last at reduce.clothesarentgarbage.ca

THINK THICE
REPAIR, REPAIR, AND DONATE TO MINIMIZE WASTE.

metrovanancouver

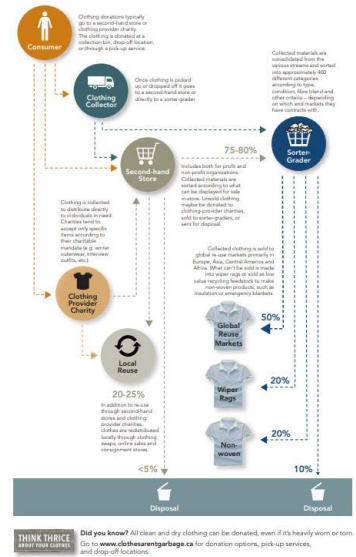
SMALL REPAIRS MAKE A BIG DIFFERENCE.



Learn how to care for clothes so they'll last longer at repair.clothesarentgarbage.ca

THINK THICE
REPAIR, REPAIR, AND DONATE TO MINIMIZE WASTE.

THE LIFE CYCLE OF UNWANTED CLOTHING
WHAT HAPPENS TO YOUR UNWANTED CLOTHING?



Transit Shelters



Bus Side



2000 **2010** **2021**

QUALITY NEVER GOES OUT OF STYLE.

Find out how to identify clothes that last at reduce.clothesarentgarbage.ca

THINK THRICE
ABOUT YOUR CLOTHES

metrovancouver



Social Media Ads

metrovancoverbc

metrovancoverbc Quality never goes out of style.

#TextilesWaste
#ThinkThriceAboutYourClothes
#Reduce #MetroVancouver

12w

12,216 views
FEBRUARY 22

Metro Vancouver
Published by DSA Media · February 23 ·

Buying clothes that you'll "actually" wear is good for your pocketbook and the planet. So spend some time with your closet to make a plan before your next shopping trip. Click to see our list of things to think about.

METROVANCOVER.ORG
Think Thrice About Your Clothes
Plan before you shop

Learn More

17 7 Comments

Facebook Live

THINK THRICE
ABOUT YOUR CLOTHES

REDUCE REPAIR DONATE / RECYCLE

COMMUNITY ABOUT

WE BUY 3 TIMES MORE CLOTHES THAN WE DID IN THE 80s

Reduce, repair and donate your clothes to help minimize landfill waste
On average, we buy three times more clothes than we did in the 80's, and it is estimated that one garbage truck full of clothing is landfilled globally every second.

Metro Vancouver was live.
Published by NewTek Share App
March 3

Facebook Live - Finding Clothes Online That Last, and Fit!
In this segment, Metro Vancouver Solid Waste Engineer, Karen Storry, is joined by Melissa Rossi from...
See More

30 18 Comments 4K Views

Like Comment Share

Comments [Hide](#)

Most Relevant

- 11w

Vivian Lee · 17:03
When is the best time to try on clothing? Later in the day (when we are naturally more bloated)? After a big meal?
Like · Reply · Message · 11w 1

Momo Kaal · 5:21
How do you avoid wear in the crotch area of pants?
Like · Reply · Message · 11w 2

- Elle Masters** · 33:49
Great information, thank you!
Like · Reply · Message · 11w
- Ingrid Tymmm** · 15:52
And also if the fabric will shrink.
Like · Reply · Message · 11w 1
- Donna May** · 26:52
Thank you!! Great info!
Like · Reply · Message · 11w
- Mabel Tam** · 28:56
Uplifting and inspiring! Thank you all!
Like · Reply · Message · 9w

To: Zero Waste Committee

From: Larina Lopez, Division Manager, Corporate Communications, External Relations
Alison Schatz, Senior Communications Specialist, External Relations

Date: May 19, 2021 Meeting Date: July 16, 2021

Subject: **Update on Metro Vancouver's Engagement with the Love Food Hate Waste Canada Campaign**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated May 19, 2021, titled "Update on Metro Vancouver's Engagement with the Love Food Hate Waste Canada Campaign."

EXECUTIVE SUMMARY

As part of its commitment to preventing waste, Metro Vancouver is a campaign partner in Love Food Hate Waste Canada (LFHW). An initiative of the National Zero Waste Council (NZWC), LFHW inspires and empowers people to prevent household food waste. There are 11 campaign partners, including two provincial agencies, seven local governments (including Metro Vancouver), and two grocery chains (Walmart and Sobeys). As a partner, Metro Vancouver receives creative for regional activations, and benefits from national media buys and access to influencers and celebrity chefs. Research about the impact of COVID-19 on consumer behaviours and food waste found 24% were wasting less than usual and 94% were motivated to reduce their household's avoidable food waste. In response, LFHW activations in 2020 and 2021 had a theme of "We're Here to Help." The regional campaign delivered 14.5 million total impressions and reached 320,000 people; the national campaign delivered over seven million impressions.

PURPOSE

To update the Committee on Metro Vancouver's engagement with the Love Food Hate Waste Canada behaviour change campaign.

BACKGROUND

Metro Vancouver launched a regional Love Food Hate Waste campaign in May 2015. The objective was to prevent avoidable household food waste. The campaign was licensed from Waste and Resources Action Programme UK.

In July 2018, building on the success of the Metro Vancouver campaign, the National Zero Waste Council (NZWC) launched a national campaign, Love Food Hate Waste Canada (LFHW; Reference 1). The NZWC holds the Canadian license and manages LFHW as a self-sustaining campaign available in English and French. Partnership fees cover the national expenses, and all partners commit additional resources for local activation. Metro Vancouver is a founding partner in the national campaign.

There are now 11 campaign partners with LFW Canada: the cities of Toronto, Vancouver, Victoria, and Winnipeg; Capital Regional District; Metro Vancouver; Guelph-Wellington; RECYC-QUÉBEC; Province of British Columbia; and grocery retailers Sobeys and Walmart.

The LFW campaign aligns with Metro Vancouver's "Food Scraps Aren't Garbage" campaign, which has the related but distinct objective of diverting food waste to the green bin (in support of the Organics Disposal Ban).

This report provides an update on the past year of Metro Vancouver's engagement with the Love Food Hate Waste Canada behaviour change campaign, as identified in the 2021 Zero Waste Committee Work Plan.

LOVE FOOD HATE WASTE CANADA (LFW)

Regional Activation and Results

Metro Vancouver ran a regional version of the national campaign in summer / fall 2020 that included digital media (programmatic banners and social media), out of home (bus sides and retail ad bars), and a television PSA. The campaign leveraged a combination of the "We're Here to Help" (Attachment 1) and "Rediscover the Value of Food" (Attachment 2) creative platforms. It delivered 14.5 million total impressions in the Metro Vancouver region and reached 320,000 people.

Metro Vancouver also participated in nation-wide coordinated social media activity during Waste Reduction Week 2020 (Attachment 3) and regularly shares social media content from LFW on Metro Vancouver's social media channels.

National Campaign Highlights and Results

Highlights from the third year of the national campaign include several promotions, learning from the COVID-19 pandemic, and coordinated activity among all campaign partners. It delivered over 7.7 million impressions and 40+ earned media hits over the past year.

In summer 2020, LFW ran a national promotion called "We're Here to Help." Based on the insight that people were going to the grocery store less during COVID-19, the campaign offered tips to use up leftovers and food that is past its best, such as leftover rice and bruised berries (Attachment 1). Using targeted programmatic banner ads, the promotion delivered 4.7 million impressions and reached over 1.2 million people across the country.

The National Zero Waste Council conducted research in June 2020 to understand the impact of COVID-19 on consumer behaviours and attitudes related to food and food waste. Key findings from the report, *Food Waste in Canadian Homes* (Reference 2), include that 24% of respondents were wasting less than usual and 94% reported being motivated to reduce their household's avoidable food waste. The report was released in September 2020 with a press release, infographic, and social media. It generated strong interest and website traffic, and 23 earned media hits.

The fall 2020 national campaign leveraged the "Rediscover the Value of Food" creative platform (Attachment 2). It used digital tactics (programmatic video and banners, social media) and a national television PSA. It delivered more than 3 million impressions across Canada and a significant increase

in website traffic during the campaign period (1,400 sessions per day). Concurrently, LFHW engaged national influencers to create and share seasonal food waste prevention content. These included chefs Christine Tizzard and Hubert Cormier (Attachment 4).

During Waste Reduction Week, on Food Focus Friday (October 23, 2020), LFHW coordinated social media activity among campaign partners. LFHW created a social media post using data from the consumer insights research, and all partners shared the post and information on their social media profiles (Attachment 3). Waste Reduction Week also shared the post on their social media.

LFHW recently launched the spring 2021 campaign, called "5 Ways With." This content (Attachment 5) offers engaging tips and ideas to use up the most commonly wasted foods and seasonal produce (e.g. 5 ways with apples, 5 ways with bread crusts, 5 ways with fresh herbs). A new "5 Ways With" section has been added to the website, and the campaign comes to life on social media through earned media and a national micro-influencer campaign. LFHW has also continued its relationship with celebrity chef Bob Blumer as a food waste champion and campaign ambassador (Attachment 4). Additional highlights from the past year include the launch of a monthly LFHW newsletter (Reference 3) and new website content, including guidance on date labels and a fulsome A-Z Storage Guide. The campaign is active on social media, with regular posts that follow seasonal themes.

PLANS FOR 2021 / 2022

Metro Vancouver plans to continue amplifying the national Love Food Hate Waste Canada campaign with regional activations and participating in coordinated partner activity. Metro Vancouver is launching a regional amplification of the "5 Ways With" campaign in early June 2021. The campaign will leverage the national campaign creative and include social media (Facebook, Instagram, Pinterest) and local social media influencers.

As the COVID-19 pandemic eases, and once safe and appropriate to do so, Metro Vancouver will once again do outreach events at farmers' markets and community events.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The 2021 budget for Metro Vancouver's participation in the Love Food Hate Waste Canada campaign is \$82,000, supported under the Zero Waste Communications Program of the 2021 General Government budget and managed by the External Relations department.

CONCLUSION

The Love Food Hate Waste Canada campaign aims to prevent household food waste across Canada. As a campaign partner, Metro Vancouver is included in national media buys and campaign activities. We also activate the campaign locally using materials created and provided by the National Zero Waste Council. Highlights from the past year of the campaign include the "We're Here to Help" promotion, Food Waste in Canadian Homes report, coordinated social media activity during Waste Reduction Week, working with celebrity chefs and influencers, a new A-Z Storage Guide, and the launch of the "5 Ways With" promotion. Metro Vancouver plans to continue to participate in national

coordinated activities and activate the campaign regionally, with a regional "5 Ways With" promotion launching in June 2021.

Attachments:

1. "We're Here to Help" Creative Samples
2. "Rediscover the Value of Food" Creative Samples
3. Waste Reduction Week 2020 Coordinated Social Media Activity
4. Food Waste Champions
5. "5 Ways With" Creative Samples

References:

1. [Love Food Hate Waste Canada Website](#)
2. [Food Waste in Canadian Homes Report \(September 2020\)](#)
3. [Love Food Hate Waste Canada Newsletter](#)

45886944

“We’re Here to Help” Creative Samples

Animated Banner Ad

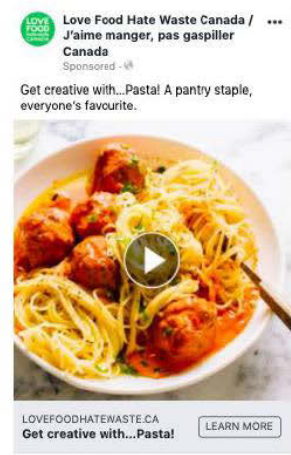
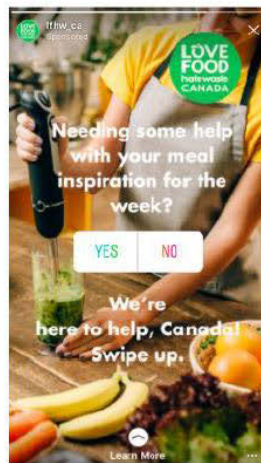
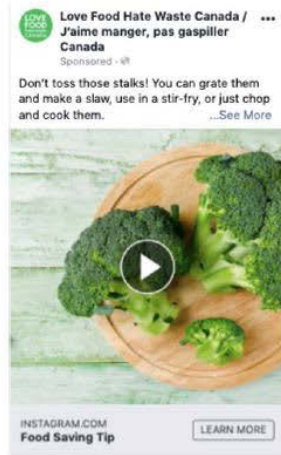
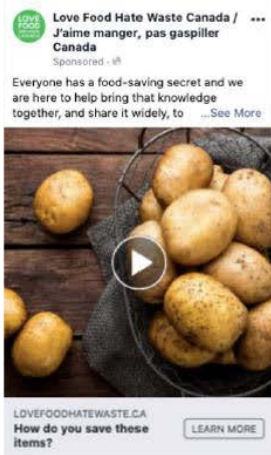
Frame 1



Frame 2



Sample Social Media Posts



“Rediscover the Value of Food” Creative Samples

Posters



Grocery Ad Bar and Bus Sides



Waste Reduction Week 2020 Coordinated Social Media Activity

Metro Vancouver

Metro Vancouver
October 23 at 8:46 AM · 🌐

Food waste costs Canadian families \$1,100 every year. As a proud partner of [Love Food Hate Waste Canada / J'aime manger, pas gaspiller Canada](#), we are committed to helping you prevent food waste while saving money at the same time. Love Food Hate Waste Canada is a one stop resource for all your food saving tips, tricks, and recipes. #WasteReductionWeek

HOUSEHOLD FOOD WASTE IN CANADA

63% of the food Canadians throw away or compost could have been eaten. For the average Canadian household, that costs \$1,100 per year.

84% of Canadians agree that food waste is an important national issue.

94% of Canadians are motivated to reduce their household's avoidable food waste.

City of Vancouver (Greenest City)

Vancouver's Greenest City Initiative
October 23 at 9:50 AM · 🌐

It's #WasteReductionWeek and we're talking food waste. DYK that food waste costs Canadian families \$1100 every year? We've partnered with [Love Food Hate Waste Canada / J'aime manger, pas gaspiller Canada](#) to help you prevent food waste all while saving money.

Learn more food saving tips, tricks, and recipes here <http://ow.ly/cbpl50Bf4s>

LOVEFOODHATEWASTE.CA
Food Waste in the Home
Inevitably, some food waste is unavoidable – this is the food that ...

Capital Regional District

Capital Regional District
October 23 at 3:55 PM · 🌐

Get the most life out of your carrots by waiting to wash them until you're ready to use them.
(bonus tip: you can revive dry looking carrots with an ice water dip too!)

Many foods we throw away could have lasted longer with tips and tricks like this—for more ideas, visit www.crd.bc.ca/lovefood.

**If you haven't already, save one of our #WasteReductionWeek Bingo cards to your phone and follow along all week for a chance to win a \$100 gift card: <https://bit.ly/3dHMzQP>

City of Victoria

City of Victoria - Local Government
October 23 at 2:05 PM · 🌐

It's Waste Reduction Week across Canada and today is #FoodWasteFriday. Canadian households throw away an average of \$1100 of edible food every year. As a partner of Love Food Hate Waste Canada we are committed to helping you prevent food waste while saving money.

Check out their website food saving tips, tricks, and recipes or share your food saving tips with the community in the comments below 📌 <https://lovefoodhatewaste.ca/>

WE HEARD YOU CANADA

Love Food Hate Waste Canada / J'aime manger, pas gaspiller Canada
October 23 at 6:30 AM · 🌐

We heard you Canada, and alongside all our Love Food Hate Waste partners we are committed to providing all the tips, tools, recipes and resources to support you... [See More](#)

City of Toronto

City of Toronto - Your Local Government
 October 26 at 8:31 AM · 🌐

Are you cooking at home more often these days? Here are some quick and easy tips to reduce your food waste:

- 🌱 Reviving wilted veggies by soaking them in ice water
- 🍎 Storing ethylene producing produce like apples in a paper bag in the fridge
- 🥕 Keeping veggie & fruit peels and tops for soups and smoothies
- 🍲 Trying yummy new recipes like pumpkin gnocchi, potato kofta and squash peel chips.

Over 50% of food waste in Toronto is avoidable. That means we're throwing away leftovers and untouched food that could have been eaten, into the Green Bin and it's costing us money (not to mention increasing our trips to the grocery store). Learn more about food waste in Toronto at toronto.ca/foodwaste/ and more about how to make your food go further at <https://lovefoodhatewaste.ca/>



Guelph-Wellington (Our Food Future)

Our Food Future @OurFoodFuture · Oct 23
 Not sure how to reduce food waste in your house? @LFHW_ca has some great tips to prevent food waste. @WRWCanada @cityofguelph @wellingtoncounty @INFC_eng



WE HEARD YOU CANADA

LOVE FOOD hate waste CANADA

GIF

🗨️ 2 🍏 3 📌

Recyc-Quebec

RECYC-QUEBEC
 October 23 at 10:17 AM · 🌐

#SQRD2020
 Découvrez les six astuces anti-gaspillage conseillées par [Hubert Cormier Nutritionniste](#), parues dans le Journal Métro. Une lecture qui tombe à point en cette [Semaine Québécoise de Réduction des Déchets - SQRD!](#)

#SQRD2020
 Check out the six anti-waste hacks recommended by published in the Subway Journal. A read that's on point at this [Hide original](#) · Rate this translation



JOURNALMETRO.COM
Six astuces pour limiter le gaspillage alimentaire
 Pour faire des économies et éviter de mettre à la poubelle de la n...

Sobeys

Sobeys
 October 22 at 2:39 PM · 🌐

Dig this #WasteReductionWeek tip: freeze individual portions of mashed potatoes for side dish saviours the whole family loves to smash. Whip up more ideas and tips at sobeys.com/foodwaste



Mash not trash

Walmart Canada

Walmart Canada
October 23 at 8:00 AM · 🌐

Food waste costs Canadian families \$1100 every year. As a proud partner of [Love Food Hate Waste Canada / J'aime manger, pas gaspiller Canada](#), we are committed to helping you prevent food waste while saving money at the same time. Love Food Hate Waste Canada is a one stop resource for all your food saving tips, tricks, and recipes.



WE HEARD YOU CANADA
94% are motivated to reduce household food waste



National Zero Waste Council

National Zero Waste Council @nzwc_ca · Oct 23
Food waste costs Canadian families \$1100 every year. Our project @lfhw_ca is committed to helping you prevent food waste while saving money at the same time #WasteReductionWeek

1

National Zero Waste Council @nzwc_ca · Oct 23
#LoveFoodHateWaste Canada is a one-stop resource for all your food saving tips, tricks, and recipes



Home
lovefoodhatewaste.ca

Waste Reduction Week in Canada

Waste Reduction Week @WRWCanada · Oct 23
Did you know that some parts of your fridge are warmer than others? Improper storage of food in the fridge can cause food to spoil faster.

Keep your food in the best spot with @LFHW_ca's Fridge Guide.

#FoodWasteFriday #WasteReductionWeek



SET HUMIDITY LEVELS
The adjustable bins on the crisper drawers change humidity levels. If your fridge has bins, set one to high humidity (H) and one to low (L) to help keep your food fresher.

SOME PARTS OF YOUR FRIDGE ARE WARMER THAN OTHERS

SOME PARTS OF YOUR FRIDGE ARE COLDER THAN OTHERS

KEEP YOUR FOOD FRESH BY KNOWING YOUR FRIDGE STORAGE BASICS

Food Waste Champions

Christine Tizzard

Video Example: All Things Turkey



Article Example: 5 Ways to Have a Waste-Free Pumpkin Season (Vita Daily)

DINING

5 Ways To Have A Waste-Free Pumpkin Season

OCTOBER 5, 2020



SHARE: [f](#) [t](#) [p](#)

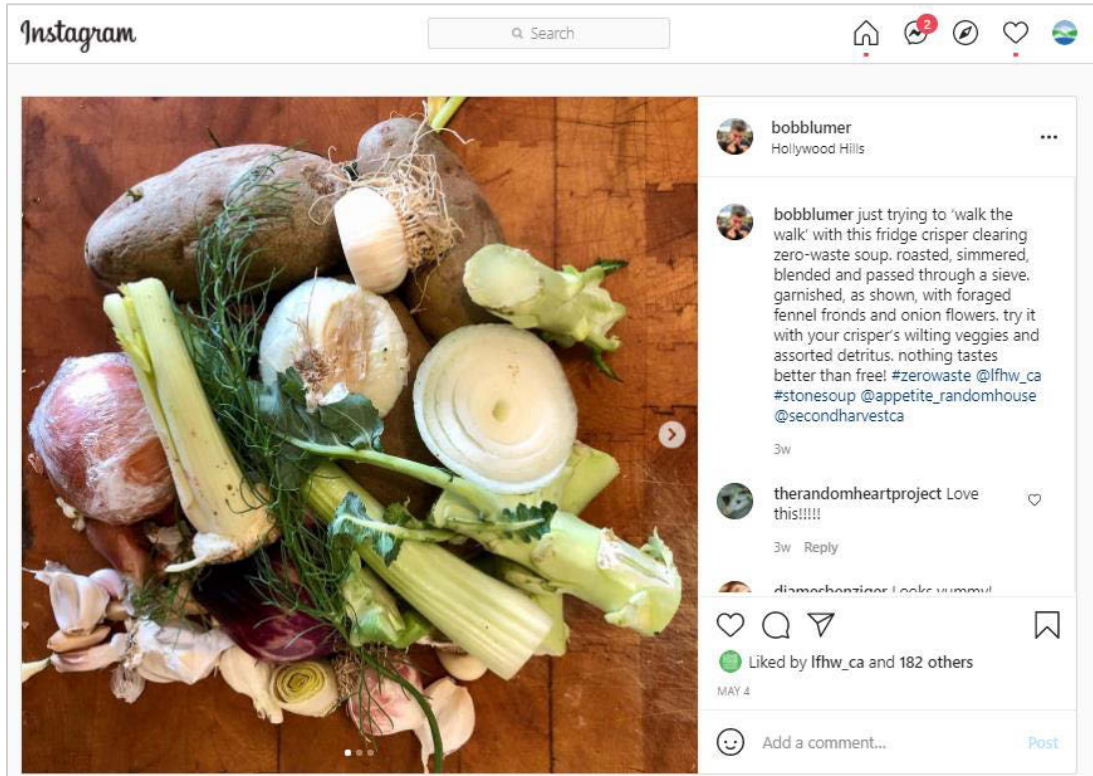
Whether it's revealed via a neighbourhood stroll, trip to the grocery store or scroll through Instagram, the fact that pumpkin time has arrived is abundantly clear! Whether a classic orange beauty on your porch or mini pastel ones along your mantle, pumpkins are the décor darling of the season. But, did you know though there are tonnes of edible options for them, too? Love Food Hate Waste Canada—Canada's hub for food-waste-prevention tips—has teamed up with zero-waste cookbook author Christine Tizzard to share these top ways to use up your pumpkin, skin to seeds. —*Vita Daily*

Bob Blumer

Sample Interviews

- [CBC BC Today](#)
- [CBC Let's Go Montreal](#)

Sample Social Media Mention



Hubert Cormier (French Only)

Sample Social Media Post (Instagram Story)



Frame 1



Frame 2



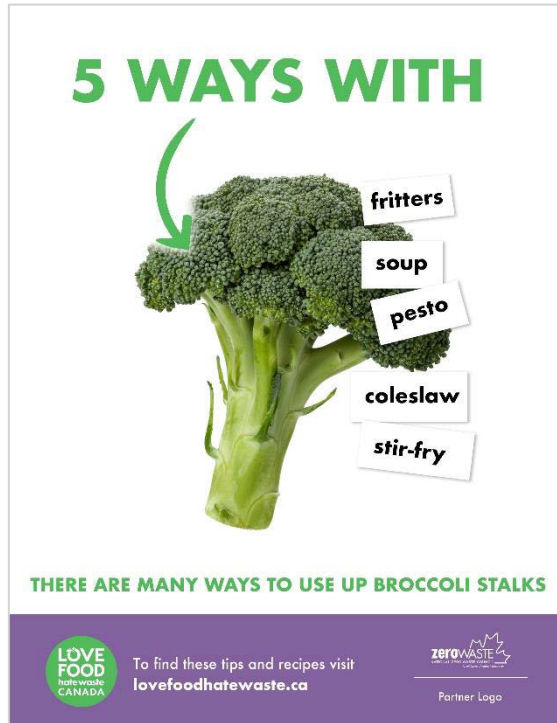
Frame 3

“5 Ways With” Creative Samples

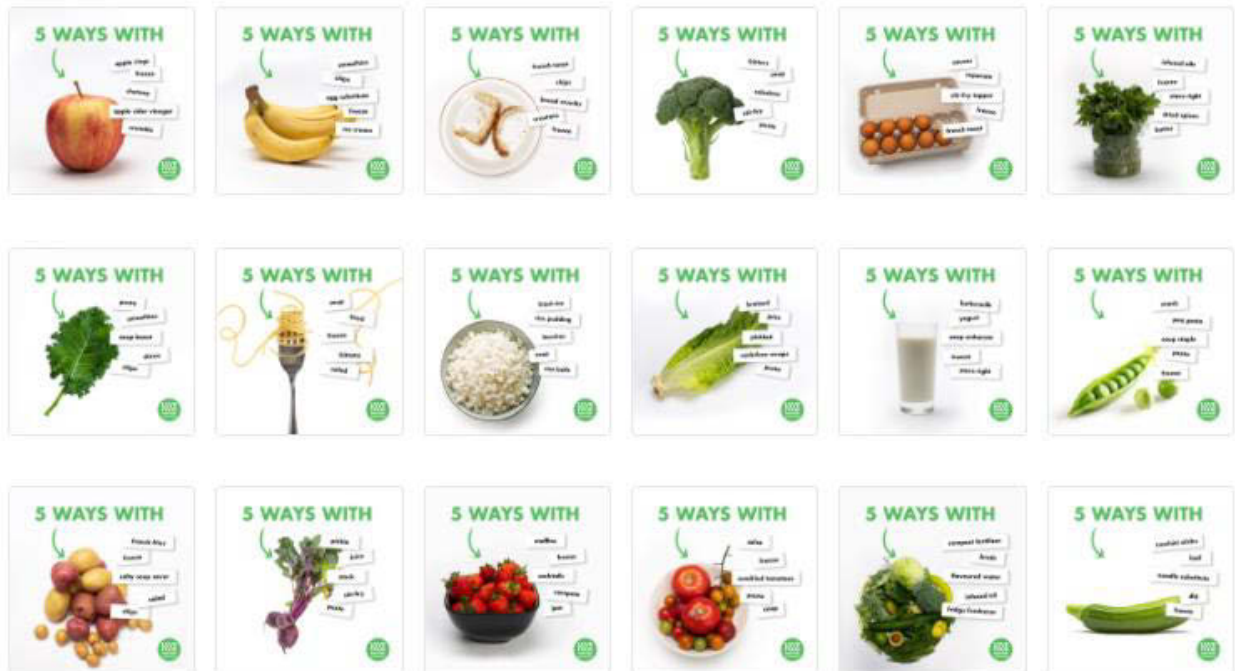
Website

[“5 Ways With” Campaign Landing Page](#)

Posters



Social Media Images



To: Zero Waste Committee

From: Paul Henderson, General Manager, Solid Waste Services

Date: July 9, 2021 Meeting Date: July 16, 2021

Subject: **Manager's Report**

RECOMMENDATION

That the Zero Waste Committee receive for information the report dated July 9, 2021, titled "Manager's Report".

United Boulevard Recycling and Waste Centre Opening Soon

Construction of the United Boulevard Recycling and Waste Centre is nearly complete. A final opening date will be shared when it is available. As part of the opening of this facility, Metro Vancouver has been:

- working with the operations contractor on transitioning staff, equipment and resources from the existing facility to the new facility;
- engaging with the waste hauling industry and municipalities to provide site orientation and describe the new features and services; and
- preparing materials and information for the general public and customers of the existing Coquitlam Recycling and Waste Centre to communicate wayfinding, site use and services at the new facility. This will include signage, a webpage and an interactive site map to enhance first use orientation.

Facility Hours and Tipping Fee Structure Review and Engagement

Metro Vancouver is engaging on the tipping fee structure and operating hours at the recycling and waste centres. The engagement is a result of feedback received in spring 2020 from waste industry representatives related to facility hours and weight thresholds under the current tipping fee structure. Currently, the threshold for the "large load" tipping fee is set at 9 tonnes. A webinar was hosted on June 28, 2021 and 25 participants attended to learn more, including information on the daily averages of hourly commercial usage during the week at Metro Vancouver solid waste facilities, and analysis on the financial implications of several scenarios for changing the large vehicle weight threshold. An online questionnaire to gather feedback is open from June 28 – July 16, and submissions were also invited by email. Results of the questionnaire will be shared with stakeholders. Feedback will be considered, and any recommended changes to the hours and tipping fee structure from the review will be shared with the Zero Waste Committee later this year.

Metro Vancouver's 2021 PNE activation - "Together We Make Our Region Strong"

For the first time, Metro Vancouver will participate in the PNE with a significant exhibit. We're excited to be part of an opportunity at such a significant time in history for our residents to be able to come out to enjoy one of the largest and most memorable events in BC. Metro Vancouver's activation will showcase the projects and initiatives essential for a resilient and sustainable region, introducing residents to our critical infrastructure projects, our inspiring regional parks and how we plan for growth and the stewardship of over a quarter of the region's land base. Visitors to the Metro Vancouver showcase will have the opportunity to interact with displays that convey messaging about Metro Vancouver's mission and goals. A series of tents, infrastructure elements, games, and exhibits will let visitors experience the wide range of Metro Vancouver services in a fun and interactive way. From historical wooden pipes to modern steel tunnel liners, selfie walls that put visitors in the frame of our SuperHabits campaign, and opportunities to ask Metro Vancouver staff questions about our work will leave visitors inspired about where they live, and gain understanding of the many different activities taking place that make this one of the most livable regions in the world.

Solid Waste Services plans to include interactive components related to four solid waste campaigns – Superhabits, Think Thrice About Your Clothes, Food Scraps Aren't Garbage and Create Memories Not Garbage. The solid waste management plan update will also be featured at a separate kiosk along with other regional long term planning processes. A mobile trivia game will quiz attendees on solid waste services and capture emails, and a theatre experience will include solid waste components.

Several Local Businesses Receive CleanBC Plastics Action Funding

The provincial [CleanBC Plastics Action Fund](#) supports businesses in British Columbia to create new value from used plastics, by manufacturing products with more recycled material, and keeping plastics out of landfills and the environment. Nine projects were selected to receive a total of \$4.65 million, creating nearly 88.5 jobs. Among the recipients are 5 local Metro Vancouver businesses:

- *Merlin Plastics (Delta)*
\$1,560,000 to upgrade equipment to increase supply of post-consumer recycled plastic as feedstock in new food-grade packaging.
- *Metaspectral (Vancouver)*
\$307,533 to develop computer vision, artificial intelligence and robotics to sorting technologies which will increase efficiency in processing materials and improve the quality of post-consumer recycled plastic.
- *Plascon Plastics Corporation (Delta)*
\$600,000 to manufacture child-safe cannabis container made from 100% post-consumer recycled plastic.
- *Reclaim Plastics (Burnaby)*
\$667,000 (66% of a \$1 million total capital expenditure) to scale up current bumper recycling operations to recycle more automotive plastics from across BC, car seats, and other industrial, commercial, and institutional mixed plastics. The funding will help with new capacity to process baled materials and significant investment in sorting technology.

- *Recycling Alternative (Vancouver)*
\$563,470, representing about 50% of the total budget Recycling Alternative will be investing in this project, to expand capacity for plastics sorting and processing, increase production of high-quality post-consumer recycled plastic feedstock to be used in local manufacturing, and create local green jobs and produce. Recycling Alternative is a partner in the Indigenous Recycling Employment Entry Program.

Metro Vancouver works regularly with a number of these businesses, and the provincial recognition of the businesses is indicative of the breadth of recycling innovation occurring in the region.

The BC Government media release is found here: <https://news.gov.bc.ca/releases/2021ENV0037-000955>.

Extended Producer Responsibility Update

On June 7, 2021, the Ministry of Environment and Climate Change Strategy released a summary report of stakeholder feedback to the 2020 Recycling Regulation Policy Intentions Paper on extended producer responsibility. The summary report categorized and summarized the feedback received from stakeholders on a number of items including mattresses, moderately hazardous wastes (e.g. compressed gas canisters), electronic wastes (e.g. electric vehicle batteries), packaging and paper product beyond residential generators, and lost fishing gear. Metro Vancouver staff submitted a response to the Intentions Paper in November 2020, supporting the expansion of the extended producer responsibility regulation to these new product categories, as well as encouraging producers to make further progress towards a circular economy and associated issues such as reuse and repair.

In general, the summary report noted that many stakeholders were supportive or neutral towards the expansion of extended producer responsibility programs to new product categories. In some specific cases, particularly where voluntary industry programs are collecting and managing wastes, such as veterinary medications and on-farm agricultural wastes, stakeholders suggested a case for some product exemptions. The Ministry of Environment and Climate Change Strategy noted that stakeholder submissions would be considered in the development of a multi-year strategy for extended producer responsibility, including changes to the *Recycling Regulation*.

Reuse Workshop and Recycling Council of BC Conference

On June 10 and 11, 2021, the Recycling Council of BC hosted their annual conference virtually. The conference included a range of topics including circular economy, extended producer responsibility for mattresses, recycling challenges and solutions, and plastics including compostable plastics. Metro Vancouver co-hosted a session with RCBC titled "How Reuse Can Flourish Amidst Contagion Fear", introduced by Director Hodge. The panelists provided insights on how businesses are able to support local communities through innovative business models and practices for second hand clothing, refillable soap and kitchen staples, and reusable container programs. The session highlighted lessons learned and served as inspiration that with determination and hard work reuse businesses can flourish even during a pandemic. The session was a great complement to both the recently launched [Superhabits](#) campaign and the National Zero Waste Council's Recovering the Momentum of Reusables in Retail Webinar, hosted by Director Fry on June 24, 2021.

National Zero Waste Council Update

Reusables during the Pandemic: The growing trend in the use of reusables had been disrupted during the pandemic. Food retailers adopted a range of policies, often limiting the use of reusable bags, mugs, containers, and bulk food. In response, the Council approached a research team at the University of Toronto's Dalla Lana School of Public Health to learn more about the science behind the risks of using reusables. The resulting report [Opportunities for Reusables in Retail Settings During the COVID-19 Pandemic in Canada: A Review of Guidance and Evidence](#) concluded that as long as precautions remain in place (like hand washing), reusable items may be used in retail settings during the COVID-19 pandemic. Just this month, the [BC Centre for Disease Control](#) updated their guidelines indicating that food businesses may go back to normal activities when handling reusable containers as long as COVID safety measures are maintained. The challenge is now to recover the momentum of the switch to reusables from single use products before the pandemic – this will involve changing the attitude of retailers as well as consumers – Metro Vancouver's Superhabits campaign will play a key role.

2021 Zero Waste Committee Work Plan

The attachment to this report sets out the Committee's work plan for 2021. The status of work program elements is indicated as pending, in progress or complete. The listing is updated as needed to include new issues that arise, items requested by the Committee and changes in the schedule.

Attachment:

Zero Waste Committee 2021 Work Plan

Zero Waste Committee 2021 Work Plan

Report Date: July 9, 2021

Priorities

1st Quarter	Status
2020 Create Memories Not Garbage Results	Complete
2020 Waste Composition Data	Complete
2020 Zero Waste Conference Results	Complete
2021 Food Scraps Campaign	Complete
2021 Think Thrice Textiles Campaign	Complete
Alternative Fuel and Recyclables Recovery Procurement Process	Complete
Contingency Disposal Contract Award	Complete
Disposal Ban Inspections Contract Award	Complete
National Zero Waste Council 2020 Accomplishments and 2021 Projects	Complete
North Shore Organics Agreement and Contract Award	Complete
Single-Use Items	Complete
Solid Waste Management Plan Consultation and Engagement Panel Update	Complete
2nd Quarter	
2020 Disposal Ban Inspection Program Results	Pending
2020 Food Scraps Campaign Results	Complete
2020 Waste-to-Energy Facility Environmental Performance Summary	Pending
2020 Waste-to-Energy Facility Financial Summary	In progress
2021 Single Use Item Campaign	Complete
2021 Think Thrice Textiles Campaign Results	In progress
Commercial Organics Management	Pending
Extended Producer Responsibility Programs	In progress
Love Food Hate Waste	In progress
Recycling Depot Funding Strategy	Complete
Reuse and Repair Initiatives	Pending
Solid Waste Services Capital Program Expenditures Update as at December 31, 2020	Complete
United Boulevard Recycling and Waste Centre Opening	Complete
Waste-to-Energy Facility - Bottom Ash Beneficial Use Contract Award	Pending
Waste-to-Energy Facility – District Energy Business Case	Complete
3rd Quarter	
2021 National Zero Waste Council Projects	In progress
2021 Textiles Campaign Results	In progress
2021 Zero Waste Conference Update	Pending
Adjacent Regional District Collaboration Opportunities Including Emerging Technologies	Pending
Central Surrey Recycling and Waste Centre Operations Contract Award	Pending
Illegal Dumping Data and Programs	Pending
Solid Waste Management Plan - Studies	Pending
Solid Waste Services Capital Program Expenditures Update as at April 30, 2021	In progress

4th Quarter	
2020 Solid Waste and Recycling Annual Report	Pending
2021 Abandoned Waste Campaign Results	Pending
2021 Create Memories Not Garbage Update	Pending
2021 Single-Use Item Campaign Results	Pending
2022-2026 Financial Plan – Solid Waste Services	In progress
2022 Tipping Fee Bylaw Revisions	Pending
Solid Waste Services Capital Program Expenditures Update as at August 31, 2021	Pending
Waste-to-Energy Facility - Ambient Air Quality Monitoring	Pending