

**METRO VANCOUVER REGIONAL DISTRICT (MVRD)
BOARD OF DIRECTORS**

REGULAR BOARD MEETING

Friday, May 27, 2022

9:15 A.M.

Meeting conducted electronically pursuant to the Procedure Bylaw
28th Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia
Webstream available at <http://www.metrovancover.org>

Membership and Votes

A G E N D A¹

A. ADOPTION OF THE AGENDA

1. May 27, 2022 Regular Meeting Agenda

That the MVRD Board adopt the agenda for its regular meeting scheduled for May 27, 2022 as circulated.

B. ADOPTION OF THE MINUTES

1. April 29, 2022 Regular Meeting Minutes

That the MVRD Board adopt the minutes for its regular meeting held April 29, 2022 as circulated.

pg. 8

C. DELEGATIONS

D. INVITED PRESENTATIONS

E. CONSENT AGENDA

Note: Directors may adopt in one motion all recommendations appearing on the Consent Agenda or, prior to the vote, request an item be removed from the Consent Agenda for debate or discussion, voting in opposition to a recommendation, or declaring a conflict of interest with an item.

¹ Note: Recommendation is shown under each item, where applicable. All Directors vote unless otherwise noted.

1. INDIGENOUS RELATIONS COMMITTEE REPORTS

1.1 Overview of the Declaration on the Rights of Indigenous Peoples Act Action Plan, 2022-2027 pg. 20

That the MVRD Board receive for information the report dated May 2, 2022, titled "Overview of the *Declaration on the Rights of Indigenous Peoples Act* Action Plan, 2022-2027."

1.2 External Agency Status Report for the Katzie Treaty Negotiation Table pg. 28

That the MVRD Board receive for information the report dated May 2, 2022, titled "External Agency Status Report for the Katzie Treaty Negotiation Table."

2. FINANCE COMMITTEE REPORTS

2.1 2021 Statement of Financial Information pg. 33

That the MVRD Board approve the Statement of Financial Information for the year ended December 31, 2021.

2.2 Electronic Meeting Participation Policy pg. 92

That the MVRD Board:

- a) approve the *Electronic Meeting Participation Policy* as presented in the report dated April 26, 2022, titled "Electronic Meeting Participation Policy"; and
- b) rescind the *Electronic Meetings and Participation by Members Guideline*.

2.3 External Organization Appointment Policy pg. 100

That the MVRD Board:

- a) approve the *External Organization Appointment Policy* as amended in the report dated April 26, 2022, titled "External Organization Appointment Policy" with the following amendments approved by committee:
 - (i) in the Term of Appointment section, include the phrase "whichever is longer", and
 - (ii) in the Board Appointment Procedure section, strike the term "weighted"; and
- b) rescind the following Board policies: *Term of Appointees/Nominees to External Boards (GV-032)*, *Representatives on International Organizations (GV-031)*, and *External Agency Appointee Reporting Requirements (GV-006)*.

2.4 Sponsorship Policy Amendments pg. 112

That the MVRD Board approve the revised *Sponsorship Policy*, as presented in the report dated April 21, 2022, titled "Sponsorship Policy Amendments".

2.5 Award of Contract Resulting from Request for Proposal (RFP) No. 21-266: Supply and Delivery of Light and Medium Duty Vehicles *pg. 129*

That the MVRD Board:

- a) approve award of a five (5) year term contract in an estimated amount of \$6,500,000 (exclusive of taxes) to Metro Motors Ltd. resulting from Request for Proposal (RFP) No. 21-266: Supply and Delivery of Light and Medium Duty Vehicles, subject to final review by the Chief Administrative Officer; and
- b) authorize the Chief Administrative Officer to execute the required documentation, once the Chief Administrative Officer is satisfied the award should proceed.

3. CLIMATE ACTION COMMITTEE REPORTS

3.1 Initial Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver *pg. 133*

That the MVRD Board authorize staff to proceed with an initial phase of engagement to develop an approach for managing greenhouse gas emissions from large buildings as described in the report dated April 20, 2022, titled “Initial Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver”.

3.2 Engagement on Proposed Amendments to GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008 *pg. 161*

That the MVRD Board direct staff to proceed with engagement on the proposed amendments to *Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* as described in the report titled “Engagement on Proposed Amendments to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*”, dated April 20, 2022.

4. REGIONAL PARKS COMMITTEE REPORTS

4.1 Regional Parks 2021 Annual Report *pg. 179*

That the MVRD Board receive for information report dated April 22, 2022, titled “Regional Parks 2021 Annual Report”.

5. REGIONAL PLANNING COMMITTEE REPORTS

5.1 Process to Consider Stronger Climate Action Language and Policy for Metro 2050 *pg. 217*

That the MVRD Board receive for information the report dated April 22, 2022, titled “Process to Consider Stronger Climate Action Language and Policy for Metro 2050”.

5.2 Regional Parking Strategy – Scope of Work *pg. 232*

That the MVRD Board receive for information the report dated April 11, 2022, titled “Regional Parking Strategy – Scope of Work”.

- 5.3 Social Equity in Regional Growth Management Phase 3 Study – Project Scope** *pg. 237*
That the MVRD Board receive for information the report dated April 11, 2022, titled “Social Equity in Regional Growth Management Phase 3 Study – Project Scope”.
- 5.4 2022 Agriculture Awareness Grant Recommendations** *pg. 241*
That the MVRD Board award the annual Agriculture Awareness Grants to the following fourteen nonprofit organizations as described in the report dated April 8, 2022, titled “2022 Agriculture Awareness Grant Recommendations”:
- a) Fraser North Farmers Market Society, for the “Nibble Network” project in the amount of \$2,500;
 - b) Hives for Humanity Society, for “Stories and Sounds of Connection around Beekeeping and Gardening” in the amount of \$2,000;
 - c) Immigrant Link Centre Society, for the “‘From Pollution to Solution’ Educational Cartoon” project in the amount of \$5,500;
 - d) See-emia Cultural Studies Society, for the “Sovereign Seedlings” project in the amount of \$4,750;
 - e) Urban Bounty/Richmond Food Security Society, for “From Field to Fork” in the amount of \$5,000;
 - f) Delta Farmland & Wildlife Trust, for “Day at the Farm” in the amount of \$4,500;
 - g) BC Agriculture in the Classroom, for “Take a Bite of BC” in the amount of \$3,000;
 - h) Earthwise Society, for the “Tomato Festival” in the amount of \$2,500;
 - i) Public Health Association of BC (PHABC), for “Farm to School BC” in the amount of \$3,500;
 - j) The Sharing Farm Society, for the “12th Annual Garlic Festival” in the amount of \$2,000;
 - k) BC Association of Farmers Markets, for the “PechaKucha: Local Food and Agriculture” project in the amount of \$3,000;
 - l) FarmFolk/CityFolk, for the “Visioning a Sustainable Food System in BC” project in the amount of \$4,250;
 - m) Pacific Immigrant Resources Society (PIRS), for the “Local Food Literacy for Immigrant and Refugee Women in Metro Vancouver” project in the amount of \$5,500; and
 - n) Growing Chefs Society, for “Edible Education Programming” in the amount of \$2,000.
- 5.5 Request for Sanitary Service Connection at 13179 224 Street, Maple Ridge** *pg. 248*
That the MVRD Board:
- a) resolve that the extension of GVS&DD sewerage services to an existing restaurant and three additional existing businesses at 13179 224 Street in the City of Maple Ridge is consistent with the provisions of Metro Vancouver 2040: Shaping our Future, and
 - b) forward the requested Fraser Sewerage Area extension application to the GVS&DD Board for consideration.

6. HOUSING COMMITTEE REPORTS

6.1 Renewal of MVRD Internal Financing of MVHC Mortgages

pg. 261

That the MVRD Board:

- a) approve continuing to provide first mortgage financing on five MVHC properties. The mortgages will be for another five-year term, and will have a variable interest rate based upon Metro Vancouver's internal rate of return on investments; and
- b) direct the Corporate Officer to publish in the newspaper, pursuant to requirements of Section 272 of the Local Government Act, Metro Vancouver's intention to lend money to the MVHC.

7. CHIEF ADMINISTRATIVE OFFICER REPORTS

7.1 Metro Vancouver External Agency Activities Status Report – May 2022

pg. 266

That the MVRD Board receive for information reports from Metro Vancouver representatives to the following external organizations:

- a) Board of Trustees of the Sasamat Volunteer Fire Department;
- b) Delta Heritage Airpark;
- c) Fraser Basin Council, Lower Mainland Flood Management Strategy Leadership Committee;
- d) Katzie Treaty Negotiation Table;
- e) Lower Mainland Local Government Association;
- f) Municipal Finance Authority of BC;
- g) Ocean Watch Action Committee;
- h) Pacific Parklands Foundation;
- i) Union of British Columbia Municipalities (UBCM);
- j) Western Transportation Advisory Council; and
- k) Zero Emission Innovation Centre Board of Directors;

as provided in the report dated May 16, 2022, titled "Metro Vancouver External Agency Activities Status Report – May 2022".

F. ITEMS REMOVED FROM THE CONSENT AGENDA

G. REPORTS NOT INCLUDED IN CONSENT AGENDA

1. CLIMATE ACTION COMMITTEE REPORTS

1.1 MVRD Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022 pg. 323

*[Recommendation a): simple weighted majority vote.] and
[Recommendation b): 2/3 weighted majority vote.]*

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022*; and
- b) pass and finally adopt *Metro Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022*.

1.2 MVRD Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022 pg. 328

*[Recommendation a): simple weighted majority vote.] and
[Recommendation b): 2/3 weighted majority vote.]*

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022*; and
- b) pass and finally adopt *Metro Vancouver Regional District Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022*.

1.3 MVRD Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022 pg. 334

*[Recommendation a): simple weighted majority vote.] and
[Recommendation b): 2/3 weighted majority vote.]*

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022*; and
- b) pass and finally adopt *Metro Vancouver Regional District Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022*.

2. CHIEF ADMINISTRATIVE OFFICER REPORTS

2.1 Metro Vancouver Regional District Election Bylaw 1340 pg. 339

*[Recommendation a): simple weighted majority vote.] and
[Recommendation b): 2/3 weighted majority vote.]*

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*; and
- b) pass and finally adopt *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*.

H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN

I. OTHER BUSINESS

1. MVRD Board Committee Information Items and Delegation Summaries

pg. 344

J. BUSINESS ARISING FROM DELEGATIONS

K. RESOLUTION TO CLOSE MEETING

Note: The Board 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 MVRD Board close its regular meeting scheduled for May 27, 2022 pursuant to the *Community Charter* provisions, Section 90 (1) (c), (e) and (m) as follows:

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

(c) labour relations or other employee relations;

(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

(m) a matter that, under another enactment, is such that the public may be excluded from the meeting.”

L. RISE AND REPORT (Items Released from Closed Meeting)

M. ADJOURNMENT/CONCLUSION

That the MVRD Board adjourn/conclude its regular meeting of May 27, 2022.

**METRO VANCOUVER REGIONAL DISTRICT
BOARD OF DIRECTORS**

Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Board of Directors held at 9:15 a.m. on Friday, April 29, 2022 in the 28th Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia.

MEMBERS PRESENT:

Burnaby, Chair, Director Sav Dhaliwal	Port Moody, Director Rob Vagramov* (arrived at 9:16 a.m.)
North Vancouver City, Vice Chair Director Linda Buchanan*	Richmond, Director Malcolm Brodie*
Anmore, Director John McEwen*	Richmond, Director Harold Steves*
Belcarra, Director Jamie Ross* (arrived at 9:16 a.m.)	Surrey, Director Linda Annis*
Bowen Island, Director David Hocking	Surrey, Director Doug Elford*
Burnaby, Director Pietro Calendino*	Surrey, Director Laurie Guerra*
Burnaby, Director Mike Hurley*	Surrey, Director Doug McCallum*
Coquitlam, Director Craig Hodge*	Surrey, Director Mandeep Nagra* (departed at 10:40 a.m.)
Coquitlam, Director Richard Stewart*	Surrey, Director Allison Patton*
Delta, Director Jeannie Kanakos*	Tsawwassen, Director Ken Baird* (arrived at 9:57 a.m.)
Delta, Alternate Director Dylan Kruger* for George Harvie	Vancouver, Director Christine Boyle*
Electoral Area A, Director Jen McCutcheon*	Vancouver, Director Adriane Carr
Langley City, Director Gayle Martin*	Vancouver, Director Melissa De Genova*
Langley Township, Director Jack Froese*	Vancouver, Director Lisa Dominato*
Langley Township, Director Kim Richter*	Vancouver, Alternate Director Pete Fry* for Kennedy Stewart
Lions Bay, Director Ron McLaughlin*	Vancouver, Director Colleen Hardwick*
Maple Ridge, Director Mike Morden*	Vancouver, Director Michael Wiebe
New Westminster, Director Jonathan Coté*	West Vancouver, Director Mary-Ann Booth*
North Vancouver District, Director Lisa Muri*	White Rock, Director Darryl Walker*
Pitt Meadows, Director Bill Dingwall*	
Port Coquitlam, Director Brad West*	

MEMBERS ABSENT:

None

STAFF PRESENT:

Jerry W. Dobrovolny, Chief Administrative Officer
Chris Plagnol, Corporate Officer
Amelia White, Legislative Services Supervisor, Board and Information Services

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

A. ADOPTION OF THE AGENDA

1. April 29, 2022 Regular Meeting Agenda

It was MOVED and SECONDED

That the MVRD Board:

- a) amend the agenda for its regular meeting scheduled for April 29, 2022 by adding Item C.1 Delegation – Roderick Louis; and
- b) adopt the agenda as amended.

CARRIED

B. ADOPTION OF THE MINUTES

1. March 25, 2022 Regular Meeting Minutes

It was MOVED and SECONDED

That the MVRD Board adopt the minutes for its regular meeting held March 25, 2022 as circulated.

CARRIED

2. April 14, 2022 Regular Joint Meeting Minutes

It was MOVED and SECONDED

That the MVRD Board adopt the minutes for its regular joint meeting of the MVRD, MVHC, GVWD and the GVS&DD Board of Directors held April 14, 2022 as circulated.

CARRIED

9:16 a.m. Directors Ross and Vagramov arrived at the meeting.

C. DELEGATIONS

1. Roderick Louis

Roderick Louis spoke to members regarding Item 9.1, *Considering TransLink's 2022 Investment Plan and Proposed Increase in Borrowing Limit* highlighting TransLink's debt ceiling, debt service costs and his belief that insufficient information has been provided to the MVRD Board.

Presentation material titled "Considering TransLink's 2022 Investment Plan and Proposed Increase in Borrowing Limit" is retained with the April 29, 2022 MVRD Board agenda.

D. INVITED PRESENTATIONS

No items presented.

E. CONSENT AGENDA

At the request of the Directors, the following items were removed from the Consent Agenda, for consideration under Section F. Items Removed from the Consent Agenda:

- 1.1 Regional Public Works Mutual Aid Agreement
- 7.2 Agritech: Findings and Actions to Strengthen the Sector in the Metro Vancouver Region
- 10.2 Asset Management and Long Term Financial Planning
- 7.3 Events and Partnerships Report
- 7.4 Motivate Vancouver 2022 Update
- 9.1 Considering TransLink's 2022 Investment Plan and Proposed Increase in Borrowing Limit

It was MOVED and SECONDED

That the MVRD Board adopt the recommendations presented in the following items as presented in the April 29, 2022 MVRD Board Consent Agenda:

- 2.1 Electoral Area A Emergency Response Reimbursement Temporary Policy
- 3.1 2022 Update on National Zero Waste Council Activities
- 4.1 Draft Climate 2050 Energy Roadmap
- 4.2 Draft Climate 2050 Nature and Ecosystems Roadmap
- 4.3 Proposed Roadmap for Climate Action Engagement to 2025 and Work Plan for 2022
- 4.4 Appointment of District Director and Enforcement Officers
- 5.1 Status of Regional Parks Capital Expenditures to December 31, 2021
- 6.1 Audited 2021 Financial Statements
- 6.2 2021 Financial Results Year-End
- 7.1 Invest Vancouver Provincial Government Engagement
- 8.1 Process for First Nations Engagement with the Flood Resiliency Task Force
- 10.1 2022 Indigenous Partnership Success Showcase Sponsorship Request

CARRIED

The items and recommendations referred to above are as follows:

2.1 Electoral Area A Emergency Response Reimbursement Temporary Policy

Report dated March 8, 2022, from Marcin Pachcinski, Division Manager, Electoral Area and Implementation Services Regional Planning and Housing Services, seeking the MVRD Board's authorization to reimburse adjacent local governments for responding to disasters and emergencies in areas of Electoral Area A outside of UBC and the University Endowment Lands while continuing to seek a permanent solution.

Recommendation:

That the MVRD Board:

- a) approve the Electoral Area A Emergency Response Reimbursement Temporary Policy as presented in the report dated March 8, 2022, titled “Electoral Area A Emergency Response Reimbursement Temporary Policy”; and
- b) approve payment in the amount of \$25,000 from the 2022 Electoral Area Services budget to reimburse the City of Surrey for costs related to responding to a barn fire on Barnston Island in late 2021.

Adopted on Consent

3.1 2022 Update on National Zero Waste Council Activities

Report dated April 1, 2022, from Heather Schoemaker, General Manager, External Relations and Ann Rowan, Division Manager, Collaboration and Engagement, External Relations, providing the MVRD Board with an update on the initiatives and projects of the National Zero Waste Council.

Recommendation:

That the MVRD Board receive for information the report dated April 1, 2022 titled “2022 Update on National Zero Waste Council Activities.”

Adopted on Consent

4.1 Draft Climate 2050 Energy Roadmap

Report dated April 11, 2022, from the Climate Action Committee, together with report dated March 16, 2022 from Nicole Chan, Project Engineer, Parks and Environment and Jason Emmert, Program Manager, Climate Policy, Parks and Environment, seeking the MVRD Board’s authorization to proceed with engagement of the updated *Draft Climate 2050 Energy Roadmap*.

Recommendation:

That the MVRD Board direct staff to proceed with engagement on the draft *Climate 2050 Energy Roadmap*, as presented in the report dated March 16, 2022, titled “*Draft Climate 2050 Energy Roadmap*”, incorporating feedback from the Climate Action Committee.

Adopted on Consent

4.2 Draft Climate 2050 Nature and Ecosystems Roadmap

Report dated April 8, 2022, from the Climate Action Committee, together with report dated March 9, 2022 from Edward Nichol, Regional Planner, Regional Planning and Housing Services, Josephine Clark, Natural Resource Management Planner, Parks and Environment and Jason Emmert, Program Manager, Climate Policy, Parks and Environment, seeking the MVRD Board’s authorization to proceed with engagement of the updated *Draft Climate 2050 Nature and Ecosystems Roadmap*.

Recommendation:

That the MVRD Board direct staff to proceed with engagement on the draft *Climate 2050 Nature and Ecosystems Roadmap*, as presented in the report dated March 9, 2022, titled "Draft *Climate 2050 Nature and Ecosystems Roadmap*", incorporating feedback from the Climate Action Committee.

Adopted on Consent

4.3 Proposed Roadmap for Climate Action Engagement to 2025 and Work Plan for 2022

Report dated March 10, 2022, from Lucy Duso, Policy Coordinator, Collaboration and Engagement and Ann Rowan, Division Manager, Collaboration and Engagement, External Relations, providing the MVRD Board with information on a proposed roadmap for climate action engagement and a work plan for 2022 through 2025.

Recommendation:

That the MVRD Board receive for information the report dated March 10, 2022, "Proposed Roadmap for Climate Action Engagement to 2025 and Work Plan for 2022".

Adopted on Consent

4.4 Appointment of District Director and Enforcement Officers

Report dated March 15, 2022, from Maari Hirvi Mayne, Acting Air Quality Regulatory Program Manager, Environmental Regulation and Enforcement, Parks and Environment, seeking the MVRD Board's approval to appoint one Metro Vancouver employee as a Board-designated officer, and to rescind the appointments of three former employees.

Recommendation:

That the MVRD Board:

- a) pursuant to the *Greater Vancouver Regional District Air Quality Management Bylaw 1082, 2008* and the *Environmental Management Act*:
 - i. rescind the appointments of Ray Robb as district director, and of Kathy Preston as assistant district director;
 - ii. appoint Metro Vancouver employee Kathy Preston as district director;
 - iii. rescind the appointments of Toby Gritten, and Dan Saunders as officers;
 - iv. appoint Metro Vancouver employee Muhammad Ali as an officer; and
- b) pursuant to section 28 of the *Offence Act* for the purpose of serving summons for alleged violations under the *Greater Vancouver Regional District Air Quality Management Bylaw 1082, 2008*:
 1. rescind the appointments of Toby Gritten, and Dan Saunders; and
 2. appoint Metro Vancouver employee Muhammad Ali.

Adopted on Consent

- 5.1 Status of Regional Parks Capital Expenditures to December 31, 2021**
Report dated March 10, 2022, from Mike Redpath, Director, Regional Parks and Jeffrey Fitzpatrick, Division Manager, Design and Development, Regional Parks, providing the MVRD Board with information on the financial performance of the Regional Parks capital program for the year ending December 31, 2021.

Recommendation:

That the MVRD Board receive for information the report dated March 10, 2022, titled "Status of Regional Parks Capital Expenditures to December 31, 2021".

Adopted on Consent

- 6.1 Audited 2021 Financial Statements**
Report dated April 7, 2022, from Linda Sabatini, Acting Director, Financial Operations, Financial Services, seeking the MVRD Board's approval of the Audited 2021 Financial Statements for the Metro Vancouver Regional District.

Recommendation:

That the MVRD Board approve the Audited 2021 Consolidated Financial Statements for the Metro Vancouver Regional District.

Adopted on Consent

- 6.2 2021 Financial Results Year-End**
Report dated April 1, 2022, from Joe Sass, Director, Financial Planning/Deputy CFO, Financial Services, providing the MVRD Board with information on the financial performance for the year ending December 31, 2021.

Recommendation:

That the MVRD Board receive for information the report dated April 1, 2022, titled "2021 Financial Results Year-End".

Adopted on Consent

- 7.1 Invest Vancouver Provincial Government Engagement**
Report dated April 5, 2022, from Jacquie Griffiths, Executive Vice President, Collaboration, Invest Vancouver, providing the MVRD Board with information on the alignment between the BC Government's Economic plan and Invest Vancouver 2022 Annual Plan.

Recommendation:

That the MVRD Board receive for information the report dated April 5, 2022, titled "Invest Vancouver Provincial Government Engagement".

Adopted on Consent

- 8.1 Process for First Nations Engagement with the Flood Resiliency Task Force**
Report dated April 12, 2022, from Neal Carley, General Manager, Parks and Environment, seeking MVRD Board's authorization to proceed with First Nations engagement for the Flood Resiliency Task Force.

Recommendation:

That the MVRD Board authorize staff to proceed with the First Nations engagement process as presented in the report dated April 12, 2022, titled "Process for First Nations Engagement with the Flood Resiliency Task Force."

Adopted on Consent

10.1 2022 Indigenous Partnership Success Showcase Sponsorship Request

Report dated April 14, 2022, from Jerry Dobrovlny, Chief Administrative Officer, Metro Vancouver Regional District, seeking the MVRD Board's approval to sponsor *2022 Indigenous Partnership Success Showcase*.

Recommendation:

That the MVRD Board approve Invest Vancouver's proposal to sponsor the *2022 Indigenous Partnership Success Showcase* as presented in the report dated April 14, 2022, titled "2022 Indigenous Partnership Success Showcase Sponsorship Request".

Adopted on Consent

F. ITEMS REMOVED FROM THE CONSENT AGENDA

Items removed from the Consent Agenda for consideration under Section F. were considered in numerical order.

1.1 Regional Public Works Mutual Aid Agreement

Report dated March 11, 2022, from Peter Navratil, General Manager, Liquid Waste Services and Brant Arnold-Smith, Program Manager, Security and Emergency Management, seeking the MVRD Board's approval for a new Regional Public Works Mutual Aid Agreement.

It was MOVED and SECONDED

That the MVRD Board authorize the Board Chair and Chief Administrative Officer to sign the new Regional Public Works Mutual Aid Agreement.

CARRIED

7.2 Agritech: Findings and Actions to Strengthen the Sector in the Metro Vancouver Region

Report dated April 6, 2022, from Lejla Uzicanin, Vice President, Data Research and Policy, Invest Vancouver, providing the MVRD Board with information on the findings and recommendations from Invest Vancouver's research into the agritech sector in the region.

Members suggested that a copy of the report be forwarded to the Agricultural Advisory Committee for their information.

It was MOVED and SECONDED

That the MVRD Board receive for information the report dated April 6, 2022, titled, “Agritech: Findings and Actions to Strengthen the Sector in the Metro Vancouver Region”, and forward a copy of the report to the Agricultural Advisory Committee for its information.

CARRIED

7.3 Events and Partnerships Report

Report dated March 17, 2022, from Katie Fitzmaurice, Vice President, Collaboration, Invest Vancouver, providing the MVRD Board with the rationale for amending the *Metro Vancouver Regional District Sponsorship Policy* (Policy No. FN-008).

It was MOVED and SECONDED

That the MVRD Board direct staff to bring proposed amendments to the *Sponsorship Policy* (Policy No. FN-008) accounting for Invest Vancouver’s unique role as an economic development leadership service to the MVRD Board for consideration.

CARRIED

7.4 Motivate Vancouver 2022 Update

Report dated March 21, 2022, from Katie Fitzmaurice, Vice President, Invest Vancouver, providing the MVRD Board with an update on the organization of *Motivate VANCOUVER 2022* and seeking approval to proclaim June 2022 to be ‘Clean Transportation Month’.

It was MOVED and SECONDED

That the MVRD Board proclaim June, 2022 to be “Clean Transportation Month”.

CARRIED

Director Richter voted in the negative.

9.1 Considering TransLink’s 2022 Investment Plan and Proposed Increase in Borrowing Limit

Report dated April 13, 2022, from Heather McNell, General Manager, Regional Planning and Housing Services, providing the MVRD Board with information on TransLink’s 2022 Investment Plan and the proposed increase to TransLink’s borrowing limit associated with its implementation.

Main Motion

It was MOVED and SECONDED

That the MVRD Board:

- a) receive for information the report dated April 13, 2022 titled “Considering TransLink’s 2022 Investment Plan and Proposed Increase in Borrowing Limit”; and
- b) send a letter to the Mayors’ Council on Regional Transportation communicating support for the alignment of TransLink’s 2022 Investment Plan with the regional growth strategy and for the proposed increase to TransLink’s borrowing limit associated with the implementation of the Investment Plan.

Members requested information and a presentation on the report from TransLink representatives in attendance.

Incidental Main Motion

It was MOVED and SECONDED

That the MVRD Board request a presentation from Sarah Ross, Vice President, Transportation Planning and Policy, TransLink and Olga Kuznetsova, Vice President, Financial Services, TransLink, regarding TransLink’s 2022 Investment Plan and Proposed Increase in Borrowing Limit.

CARRIED

Members were provided with a presentation on the TransLink 2022 Funding Stabilization Plan, the debt ratio, the debt limit, the 2022-2031 Capital Program and the Greater Vancouver Regional Fund – Funding Utilization.

9:57 a.m. Chief Baird arrived at the meeting.

Presentation material titled “TransLink’s 2022 Investment Plan” is retained with the April 29, 2022 MVRD Board agenda.

At the conclusion of the presentation, the Chair put the Main Motion before the MVRD Board.

Question on the Main Motion

Question was then called on the Main Motion and it was

CARRIED

Director Richter voted in the negative.

10.2 Asset Management and Long Term Financial Planning

Report dated April 19, 2022, from Cheryl Nelms, General Manager, Project Delivery, and Dean Rear, Chief Financial Officer, Financial Services, providing the MVRD Board with an overview of the current asset management and financial planning practices.

It was MOVED and SECONDED

That the MVRD Board direct staff to provide context for decision making by completing long-range plans for major capital projects including an asset inventory, asset condition assessment, and a proposed timeline of maintenance, repair, replacement, and funding requirements for these major projects and report back to the Board with this plan.

CARRIED

G. REPORTS NOT INCLUDED IN CONSENT AGENDA

1.1 MVRD Regional Growth Strategy Bylaw No. 1339, 2022, a bylaw to adopt Metro 2050 – Public Hearing Minutes and Bylaw Referral for Acceptance

Report dated April 22, 2022, from Heather McNell, General Manager, Regional Planning and Housing Services and Chris Plagnol, Corporate Officer, providing the MVRD Board with the results of the Public Hearing held on April 20, 2022 regarding *MVRD Regional Growth Strategy Bylaw No. 1339, 2022*, known as *Metro 2050*, and initiating acceptance of the Bylaw by affected local governments.

Director Dhaliwal, Chair of the Public Hearing, reported out on the Public Hearing as follows:

- the public hearing was held pursuant to the provisions of the *Local Government Act*, thirteen oral submissions were heard, and quorum was maintained throughout the public hearing; and
- the report titled “*MVRD Regional Growth Strategy Bylaw No. 1339, 2022, a bylaw to adopt Metro 2050 – Public Hearing Minutes and Bylaw Referral for Acceptance*”, as presented in Item G 2.1 of the agenda, contains a certified copy of the minutes of the Public Hearing, and is an accurate representation of the proceedings and submissions at the Public Hearing.

Members were provided with a presentation on *Metro 2050* engagement highlighting engagement activities during the policy reviews, drafting of the strategy, the formal comment period, revisions made as a result and next steps.

10:40 a.m. Director Nagra departed the meeting.

Presentation material titled “*Metro 2050: Public Hearing Report and Referral for Acceptance*” is retained with the April 29, 2022 MVRD Board agenda.

Request of Staff

Staff were requested to add a copy of the “*Metro 2050: Public Hearing Report and Referral for Acceptance*” PowerPoint presentation to correspondence going out to affected local governments seeking acceptance of *Metro 2050*.

It was MOVED and SECONDED

That the MVRD Board:

- a) receive the minutes of the Public Hearing held April 20, 2022 regarding *Metro Vancouver Regional District Regional Growth Strategy Bylaw No. 1339, 2022*, a bylaw to adopt *Metro 2050* as the regional growth strategy for Metro Vancouver;
- b) refer *Metro Vancouver Regional District Regional Growth Strategy Bylaw No. 1339, 2022*, to affected local governments for acceptance;
- c) refer *Metro Vancouver Regional District Regional Growth Strategy Bylaw No. 1339, 2022*, to the Minister of Municipal Affairs; and
- d) suspend the rules outlined in Part 13 of the Procedure Bylaw, relative to hearing delegations, if requests to appear as delegations are in relation to *Metro 2050* until such time as Bylaw 1339, 2022 is adopted, defeated or otherwise disposed.

CARRIED

H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN

No items presented.

I. OTHER BUSINESS

1. MVRD Board Committee Information Items and Delegation Summaries

It was MOVED and SECONDED

That the MVRD Board receive for information the MVRD Board Committee Information Items and Delegation Summaries, dated April 29, 2022.

CARRIED

J. BUSINESS ARISING FROM DELEGATIONS

No items presented.

K. RESOLUTION TO CLOSE MEETING

It was MOVED and SECONDED

That the MVRD Board close its regular meeting scheduled for April 29, 2022 pursuant to the *Community Charter* provisions, Section 90 (1) (c), (e) and 90 (2) (b) as follows:

- “90 (1) A part of a board meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
- (c) labour relations or other employee relations;
 - (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
- 90 (2) A part of a meeting must be closed to the public if the subject matter being considered relates to one or more of the following:
- (b) the consideration of information received and held in confidence relating to negotiations between the regional district and a provincial government or the federal government or both, or between a provincial government or the federal government or both and a third party.”

CARRIED

L. RISE AND REPORT (Items Released from Closed Meeting)

No items presented.

M. ADJOURNMENT/CONCLUSION

It was MOVED and SECONDED

That the MVRD Board adjourn its regular meeting of April 29, 2022.

CARRIED

(Time: 10:51 a.m.)

CERTIFIED CORRECT

Chris Plagnol, Corporate Officer

Sav Dhaliwal, Chair

52352611 FINAL

To: Indigenous Relations Committee

From: Marino Piombini, Program Manager, Indigenous Relations

Date: May 2, 2022 Meeting Date: May 11, 2022

Subject: **Overview of the *Declaration on the Rights of Indigenous Peoples Act* Action Plan, 2022-2027**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 2, 2022, titled “Overview of the *Declaration on the Rights of Indigenous Peoples Act* Action Plan, 2022-2027.”

EXECUTIVE SUMMARY

This report summarizes the *Declaration on the Rights of Indigenous Peoples Act* Action Plan, 2022-2027, which was released by the Province on March 30, 2022. In addition to providing background on the Declaration Act and related Action Plan, this report highlights actions relevant to local governments, and discusses both implications for and ongoing items already addressed by Metro Vancouver. The Action Plan will affect local governments, including advancing First Nations’ participation in regional district boards, increasing support for urban Indigenous organizations, and reviewing the naming of municipalities and regional districts. The Province will produce annual reports on progress made to implement the Action Plan. In the meantime, the next steps for Metro Vancouver will be to disseminate this report to internal departments, and to educate and discuss with staff about various actions in the Action Plan and their applicability to the work of the regional district.

PURPOSE

To provide the committee with a synopsis of the Declaration Act Action Plan, the pertinent actions relating to local government, and their implications.

BACKGROUND

The *Declaration on the Rights of Indigenous Peoples Act* (Declaration Act; 2019) became law in British Columbia on November 28, 2019. Through the Act, British Columbia formally adopted the internationally recognized standards of the *United Nations Declaration on the Rights of Indigenous Peoples* (UN Declaration; 2007). The Declaration Act is grounded in four key areas: 1) alignment of laws; 2) reconciliation in action; 3) transparency and accountability; and 4) making decisions together.

Section 4 of the Declaration Act requires the Province to develop and implement an Action Plan, in consultation and cooperation with Indigenous Peoples, to meet the objectives of the UN Declaration. To ensure that the Action Plan aligned with the priorities of Indigenous Peoples, the Province entered into two phases of engagement over two years with Indigenous Peoples in British Columbia. This engagement included: hosting meetings with representatives from more than 150 First Nations and Indigenous organizations, receiving over 100 written submissions, receiving more than 100 pieces of

feedback from rights and title holders, and having direct participation of every provincial government agency.

The Province released the Declaration Act Action Plan on March 30, 2022. The Action Plan identifies the goals and outcomes that form the long-term vision for implementing the UN Declaration in British Columbia. There are four overarching goals of the Action Plan:

1. Self-Determination and Inherent Right of Self-Government
2. Title and Rights of Indigenous Peoples
3. Ending Indigenous-Specific Racism and Discrimination
4. Social, Cultural and Economic Well-Being

The Action Plan outlines 89 actions that are tangible steps for advancing this work in key areas over the next five years (2022–2027). Each provincial ministry will work with Indigenous peoples to deliver on their specific actions in tangible and measureable ways. In addition, the Province will prepare annual reports on the progress made.

ACTIONS OF RELEVANCE OR INTEREST TO LOCAL GOVERNMENTS AND METRO VANCOUVER

Of the 89 Actions listed in the Declaration Act Action Plan, many have relevance to local governments which are included in Attachment 1. Some of the Actions that are of relevance to Metro Vancouver are the following:

Support inclusive regional governance by advancing First Nations participation in regional district boards (Action 1.11)

This Action has been assigned to the Ministry of Municipal Affairs and Housing. While awaiting further guidance from the Ministry, Metro Vancouver continues to include First Nations in many of its engagement processes with respect to capital and infrastructure and management plans. Some examples include the Regional Parks Management Plan, Metro 2050 regional growth strategy, and the engagement work at Iona Island and North West Langley wastewater treatments plants, as well as the engagement work for both the Stanley Park and Coquitlam Lake water supply projects. In addition, Metro Vancouver and Tsleil-Waututh Nation have established both a joint Leadership Group and Technical Working Group as part of the Cultural Planning and Co-Operation Agreement for t̓əmtə́míxʷtən/Belcarra Regional Park.

Establish an operational approach to set and achieve targets for equitable recruitment and retention of Indigenous Peoples across the public sector, including at senior levels (Action 3.2)

Metro Vancouver's Diversity, Equity, & Inclusion Project Group is centered on four key areas of focus: Talent Acquisition, Talent Development, Workplace Experience, and Metrics and Data. The project group is committed to researching, recommending and implementing policies, practices, and programs that will serve to remove barriers for underrepresented groups and provide opportunities to cultivate a respectful, fair, equitable, and transparent work culture for all that welcomes and embraces diversity. The work of the Diversity, Equity, & Inclusion project group will contribute to further ensuring equitable and inclusive recruitment practices and ongoing retention efforts at Metro Vancouver. In addition, Metro Vancouver's Procurement Policy provides economic opportunities for

First Nations. This could include employment opportunities for First Nations on large capital projects, such as wastewater treatment plant upgrades.

Identify and implement multi-modal transportation solutions that provide support and enable the development of sustainable, safe, reliable and affordable transportation options for First Nations communities (Action 3.9)

This could increase transportation options within the Metro Vancouver region. *Metro 2050* (2022), the update to the regional growth strategy that is currently under consideration by the MVRD Board, contains new policy actions which are supportive or related to this Action. This includes a new policy action for Translink to “continue to identify viable new opportunities to create and improve transit, active transportation, and micro-mobility linkages to and within First Nations communities” (*Metro 2050* 5.1.15j).

Promote culturally relevant sport, physical activity and recreation initiatives and opportunities that increase Indigenous engagement, participation and excellence in both traditional and mainstream sports for individuals in both urban and rural or remote areas (Action 4.6)

This could increase opportunities for Indigenous peoples to participate in sports and recreation activities in the Metro Vancouver region. The draft Metro Vancouver Regional Parks Plan identifies several guiding principles including being inclusive and reconciliation focused. The principles and actions speak to reducing barriers and enhancing access for First Nation communities to regional parks, with increased recreational opportunities as one desired outcome.

As a part of the implementation of the *Accessible British Columbia Act*, support the identification, prevention and removal of barriers for Indigenous persons with disabilities. This includes ensuring that the development of accessibility standards considers the rights recognized and affirmed by the UN Declaration (Action 4.9)

This will increase the accessibility of services for Indigenous peoples in the Metro Vancouver region. Metro Vancouver Housing creates affordable rental homes, primarily for families, seniors, and people with disabilities. The Metro Vancouver Housing 10-Year Plan sets targets to enhance accessibility in existing and new housing. Metro Vancouver Housing is committed to creating housing that is age-friendly and accessible, safe, inclusive, and welcoming for all people. New affordable rental housing projects are built to universal design standards which can be adapted to support changing mobility needs and aging in place, with five to ten percent of units as wheelchair accessible. As a family-oriented housing provider, Metro Vancouver Housing is also exploring the potential to integrate non-profit childcare facilities in new developments. Childcare operators will serve a range of priority groups, including Indigenous families, and will be highly accessible to support children, staff, and visitors.

Bring together key Indigenous urban leaders to create a provincial urban Indigenous advisory table to develop and implement a five-year plan to address the priorities of urban Indigenous Peoples, including a focus on Elders, youth, children, women, men, 2SLGBTQQIA+ and persons with disabilities (Action 4.21)

This Action will serve to elevate the priorities of urban Indigenous peoples within Metro Vancouver. Metro Vancouver has brought urban Indigenous organizations and leaders together in the past, including representatives from the Downtown Eastside Women’s Centre to present and discuss with

the Indigenous Relations Committee the report [Red Women Rising: Indigenous Women Survivors in Vancouver's Downtown Eastside](#) (2019). In addition, in past years, staff and representatives from the Vancouver Aboriginal Friendship Centre (2019), Metro Vancouver Aboriginal Executive Council (2016), and the cities of Surrey and Vancouver (2016) presented and discussed, with the Indigenous Relations Committee and Metro Vancouver's Municipal Technical Advisory Committee on Indigenous Relations (MTAC), various issues facing urban Indigenous peoples, such as housing and access to services. In addition, the Indigenous Relations Committee work plan includes opportunities to meet with representatives from the Metis and Inuit communities in the Metro Vancouver region, and Vancouver Aboriginal Friendship Centre, to further discuss

Ministers and executives across the provincial government social sector will meet annually with urban Indigenous service organization leaders, such as the provincial urban Indigenous advisory table (see Action 4.21), to discuss successes, innovations, and challenges of supporting the social, cultural and economic needs of urban Indigenous Peoples (Action 4.22)

As with the previous Action, this Action will serve to strengthen the support for urban Indigenous peoples living within Metro Vancouver. In addition, a couple of members on Metro Vancouver's Indigenous Relations Committee in 2022 participate on the UBCM Indigenous Relations Committee, which includes reference to these issues.

Expand support to Aboriginal Friendship Centres and other urban Indigenous organizations that serve the needs of urban Indigenous people in B.C. while also acknowledging that Aboriginal Friendship Centres and other urban Indigenous organizations play a vital role for those that wish to connect to their cultures and traditions (Action 4.24)

This could provide additional support to urban Indigenous organizations within Metro Vancouver. The Metro Vancouver Regional Cultural grant program currently supports region-serving arts and culture projects. Indigenous organizations have previously applied and received funding to support community projects. Recent projects have included a visual arts exhibition that showcased the works of contemporary Musqueam, Squamish, and Tsleil-Waututh textile artists, a youth festival that celebrated the songs and dances of the Indigenous peoples of the Northwest Coast, and the creation of a comic series by twelve Indigenous artists reflecting their experiences and relationships with the land they live on.

Review the principles and processes that guide the naming of municipalities and regional districts, and evolve practices to foster reconciliation in local processes (Action 4.27)

This Action could increase name changes or dual names for municipalities and regional districts, and increase the participation of First Nations in local government processes. Metro Vancouver has made efforts towards reconciliation since October 2015, when the MVRD Board endorsed the Truth and Reconciliation Commission's Calls to Action and reinforced its commitment in February 2021. Since 2015, Metro Vancouver has signed an historic Cultural Planning and Co-Operation Agreement for t̓əmtə́míx̣w̓tən/Belcarra Regional Park with Tsleil-Waututh Nation (2019), developed a corporate-wide policy on engaging with First Nations, updated the procurement policy to provide more First Nation economic opportunities, approved the Regional Park Naming, Renaming, and Dedications Policy (2020) as well as the Metro Vancouver Housing Naming Framework (2022).

Work with the Province’s Economic Trusts and First Nation partners to develop a mechanism that ensures inclusion of First Nations at a regional decision-making level (Action 4.39)

As the region’s economic development leadership service, Invest Vancouver is guided by its vision of a dynamic and resilient regional economy that delivers prosperity for all. Economic reconciliation is a critical component of achieving this vision. The Invest Vancouver Management Board is committed to creating meaningful partnerships and ensuring increased access to economic opportunities for Indigenous communities.

Metro Vancouver staff and the Indigenous Relations Committee will continue to monitor the province’s efforts on the individual items in the Action Plan and report out on updates.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

As this is an information report, there are no financial implications.

CONCLUSION

The Declaration Act Action Plan outlines 89 tangible actions to be undertaken in the next five years to support reconciliation in British Columbia. These actions were created in collaboration with Indigenous peoples across the province, and require the assistance of all levels of government, including local governments. Several Actions are pertinent to local government, and have implications for Metro Vancouver.

Attachments

1. Actions of Relevance or Interest to Local Governments and Metro Vancouver from the *Declaration on the Rights of Indigenous Peoples Act* Action Plan, 2022-2027

References

1. [Declaration on the Rights of Indigenous Peoples Act](#). November 28, 2019.
2. [United Nations Declaration on the Rights of Indigenous Peoples](#). September 13, 2007.
3. [Declaration on the Rights of Indigenous Peoples Act Action Plan](#). March 30, 2022.
4. [Metro 2050 Regional Growth Strategy](#). February, 2022.
5. [“Metro Vancouver’s Commitment to Reconciliation with Indigenous Peoples.”](#) Report to MVRD Board, February 26, 2021.
6. [Belcarra Regional Park Cultural Planning and Co-operation Agreement](#). Signed January 17, 2019.
7. [“Regional Parks Naming, Renaming, and Dedications Policy.”](#) Report to MVRD Board, March 27, 2020.
8. [“Metro Vancouver Housing Naming Framework.”](#) Report to MVHC Board, January 13, 2022.

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Actions of Relevance or Interest to Local Governments and Metro Vancouver from the *Declaration on the Rights of Indigenous Peoples Act Action Plan, 2022-2027*

Action 1.11

Support inclusive regional governance by advancing First Nations participation in regional district boards (Ministry of Municipal Affairs).

Action 2.6

Co-develop strategic-level policies, programs and initiatives to advance collaborative stewardship of the environment, land and resources, that address cumulative effects and respects Indigenous Knowledge. This will be achieved through collaborative stewardship forums, guardian programs, land use planning initiatives, and other innovative and evolving partnerships that support integrated land and resource management. *(Ministry of Land, Water and Resource Stewardship, Ministry of Indigenous Relations and Reconciliation, Ministry of Environment and Climate Change Strategy, Ministry of Forests, Ministry of Energy, Mines and Low Carbon Innovation, BC Oil and Gas Commission).*

Action 2.7

Collaborate with First Nations to develop and implement strategies, plans and initiatives for sustainable water management, and to identify policy or legislative reforms supporting Indigenous water stewardship, including shared decision-making. Co-develop the Watershed Security Strategy with First Nations and initiate implementation of the Strategy at a local watershed scale *(Ministry of Land, Water and Resource Stewardship).*

Action 3.2

Establish an operational approach to set and achieve targets for equitable recruitment and retention of Indigenous Peoples across the public sector, including at senior levels (Public Service Agency, Public Sector Employers' Council Secretariat).

Action 3.9

Identify and implement multi-modal transportation solutions that provide support and enable the development of sustainable, safe, reliable and affordable transportation options for First Nations communities *(Ministry of Transportation and Infrastructure).*

Action 3.11

Develop and implement comprehensive policing reforms to address systemic biases and racism. This will include: updating the Police Act, BC Provincial Policing Standards and mandatory training requirements; enhancing independent oversight; clarifying the roles and responsibilities of police officers in the context of complex social issues such as mental health, addiction and homelessness; and contributing to the modernization of the federal First Nations Policing Program *(Ministry of Public Safety and Solicitor General, Ministry of Attorney General, Ministry of Mental Health and Addictions).*

Action 4.6

Promote culturally relevant sport, physical activity and recreation initiatives and opportunities that increase Indigenous engagement, participation and excellence in both traditional and mainstream sports for individuals in both urban and rural or remote areas (*Ministry of Tourism, Arts, Culture and Sport*).

Action 4.9

As a part of the implementation of the Accessible British Columbia Act, support the identification, prevention and removal of barriers for Indigenous persons with disabilities. This includes ensuring that the development of accessibility standards considers the rights recognized and affirmed by the UN Declaration (*Ministry of Social Development and Poverty Reduction*).

Action 4.12

Address the disproportionate impacts of the overdose public health emergency on Indigenous Peoples by: applying to the Government of Canada to decriminalize simple possession of small amounts of illicit drugs for personal use, and continuing campaigns and other measures to help end the stigma and shame associated with addiction; expanding prescribed safer supply and other harm reduction measures; and ensuring accessibility of recovery beds, and evidence-based, culturally relevant and safe services to meet the needs of Indigenous Peoples, including youth (*Ministry of Mental Health and Addictions, Ministry of Public Safety and Solicitor General, Ministry of Attorney General*).

Action 4.21

Bring together key Indigenous urban leaders to create a provincial urban Indigenous advisory table to develop and implement a five-year plan to address the priorities of urban Indigenous Peoples, including a focus on Elders, youth, children, women, men, 2SLGBTQIA+ and persons with disabilities (*Ministry of Indigenous Relations and Reconciliation, Ministry of Social Development and Poverty Reduction*).

Action 4.22

Ministers and executives across the provincial government social sector will meet annually with urban Indigenous service organization leaders, such as the provincial urban Indigenous advisory table (see Action 4.21), to discuss successes, innovations, and challenges of supporting the social, cultural and economic needs of urban Indigenous Peoples (*Ministry of Indigenous Relations and Reconciliation*).

Action 4.24

Expand support to Aboriginal Friendship Centres and other urban Indigenous organizations that serve the needs of urban Indigenous people in B.C. while also acknowledging that Aboriginal Friendship Centres and other urban Indigenous organizations play a vital role for those that wish to connect to their cultures and traditions (*Ministry of Indigenous Relations and Reconciliation*).

Action 4.27

Review the principles and processes that guide the naming of municipalities and regional districts, and evolve practices to foster reconciliation in local processes (*Ministry of Municipal Affairs*).

Action 4.28

Draft a report with recommendations for how BC Parks can better reflect Indigenous Peoples' histories and cultures in provincial parks and protected areas (*Ministry of Environment and Climate Change Strategy*).

Action 4.35

Work with First Nations to reform the Heritage Conservation Act to align with the UN Declaration, including shared decision-making and the protection of First Nations cultural, spiritual, and heritage sites and objects (*Ministry of Forests, Ministry of Tourism, Arts, Culture and Sport*).

Action 4.39

Work with the Province's Economic Trusts and First Nation partners to develop a mechanism that ensures inclusion of First Nations at a regional decision-making level (*Ministry of Jobs, Economic Recovery and Innovation*).

Action 4.49

Review existing provincial mandates to enhance treaty and self-governing Nations' fiscal capacity to deliver services to their citizens (*Ministry of Indigenous Relations and Reconciliation*).

To: Indigenous Relations Committee

From: Councillor Steve Ferguson, Township of Langley

Date: May 2, 2022 Meeting Date: May 11, 2022

Subject: **External Agency Status Report for the Katzie Treaty Negotiation Table**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 2, 2022, titled “External Agency Status Report for the Katzie Treaty Negotiation Table.”

EXECUTIVE SUMMARY

This information report provides an overview of the Katzie treaty table negotiation efforts over the past six months including: background on Katzie First Nation, information on the First Nation’s Statement of Intent area, the status of negotiations, and the roles and responsibilities of the local government representative sitting at the treaty table.

PURPOSE

To provide the MVRD Board with a status report from the appointed local government representative at the Katzie treaty negotiations table.

BACKGROUND

As a representative appointed by Metro Vancouver to various external organizations, under Board policy, a report is to be provided to the Board of Directors on the activities of the external agency, twice annually in May and in October.

The *Memorandum of Understanding between the Union of British Columbia Municipalities and the Ministry of Indigenous Relations and Reconciliation*, renewed on September 14, 2021 at the Union of BC Municipalities Convention, includes a process for local government participation in the negotiation and implementation of treaties. Local government representatives have a seat at the Katzie treaty table as part of the provincial negotiation team.

KATZIE TREATY NEGOTIATION TABLE

Katzie First Nation, with a current total population of 629 members, has five Indian Reserves in four different local government jurisdictions: Pitt Meadows, Township of Langley, Maple Ridge, and two within Metro Vancouver’s Electoral Area A.

Katzie has been operating under a Land Code since 2017. A Land Code is a comprehensive law created by a First Nation to replace 44 sections of the *Indian Act* that relate to land management.

Since 2005, Katzie has also entered into a number of Forest and Range Consultation and Revenue Sharing [agreements](#) with the provincial government.

Katzie has been involved at the treaty negotiation table since 1994. Its Statement of Intent area (equivalent to the First Nation's traditional territory) envelopes the following local government jurisdictions: Burnaby, Coquitlam, Delta, City of Langley, Township of Langley, Maple Ridge, Metro Vancouver's Electoral Area A, New Westminster, Pitt Meadows, Port Coquitlam, Richmond, Surrey, and White Rock (Attachment 1).

UPDATE ON TREATY TABLE ACTIVITIES

The Katzie treaty table is in Stage 4 of the six-stage BC Treaty Process (Agreement-in-Principle stage). Katzie is pursuing a new approach to self-government that focuses on the needs and priorities of the Nation. This new process, called incremental self-government, is being outlined in a Memorandum of Understanding (MOU) negotiated between Katzie, BC, and Canada.

Katzie First Nation's new approach to treaty negotiations focuses on key principles such as:

- negotiations are based on the recognition of Indigenous title and rights;
- support for Indigenous self-government;
- treaties and agreements seen as flexible and living partnerships and as mechanisms to implement the United Nations Declaration on the Rights of Indigenous Peoples.

Tripartite negotiations have taken place on a monthly basis over the past six months. Katzie treaty negotiation meetings are held in-camera. As per the 2021 Memorandum of Understanding between Union of BC Municipalities and the Province, negotiation updates can only be shared in-camera by the local government representative. However, for the purposes of this report, the following information can be shared publicly as it was released by the BC Treaty Commission as part of its 2021 Annual Report.

The First Nation's leadership team, including Council members, senior management, and treaty negotiators, is also working to reinvigorate engagement efforts with Katzie community members. Katzie First Nation has also enhanced community engagement efforts, including a new digital engagement platform and is currently working on an updated Membership Code.

In addition, Treaty Related Measures funding continues to support governance planning and research on fisheries interests. Treaty Related Measures are designed to resolve matters on an interim basis and to facilitate treaty negotiations. Treaty Related Measures projects are funded by Canada.

Treaty negotiations at this table are expected to continue at the current pace in 2022.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

As this is an information report, there are no financial implications.

CONCLUSION

Katzie First Nation has been involved in treaty negotiations since 1994. Currently, in Stage 4 of the six-stage treaty process, the table is meeting on a regular monthly basis. The focus of negotiations has been on the exploration of options to recognize and protect Katzie's inherent title and rights. Katzie is pursuing an Incremental Treaty Agreement with the governments of Canada and BC. The First Nation's leadership team, including Council members, senior management, and treaty negotiators, is also working to reinvigorate engagement efforts with Katzie community members.

Attachments

1. Statement of Intent Area Map: Traditional Territory Boundary, Katzie Indian Band.
2. The Roles and Responsibilities of Table Representatives.

References

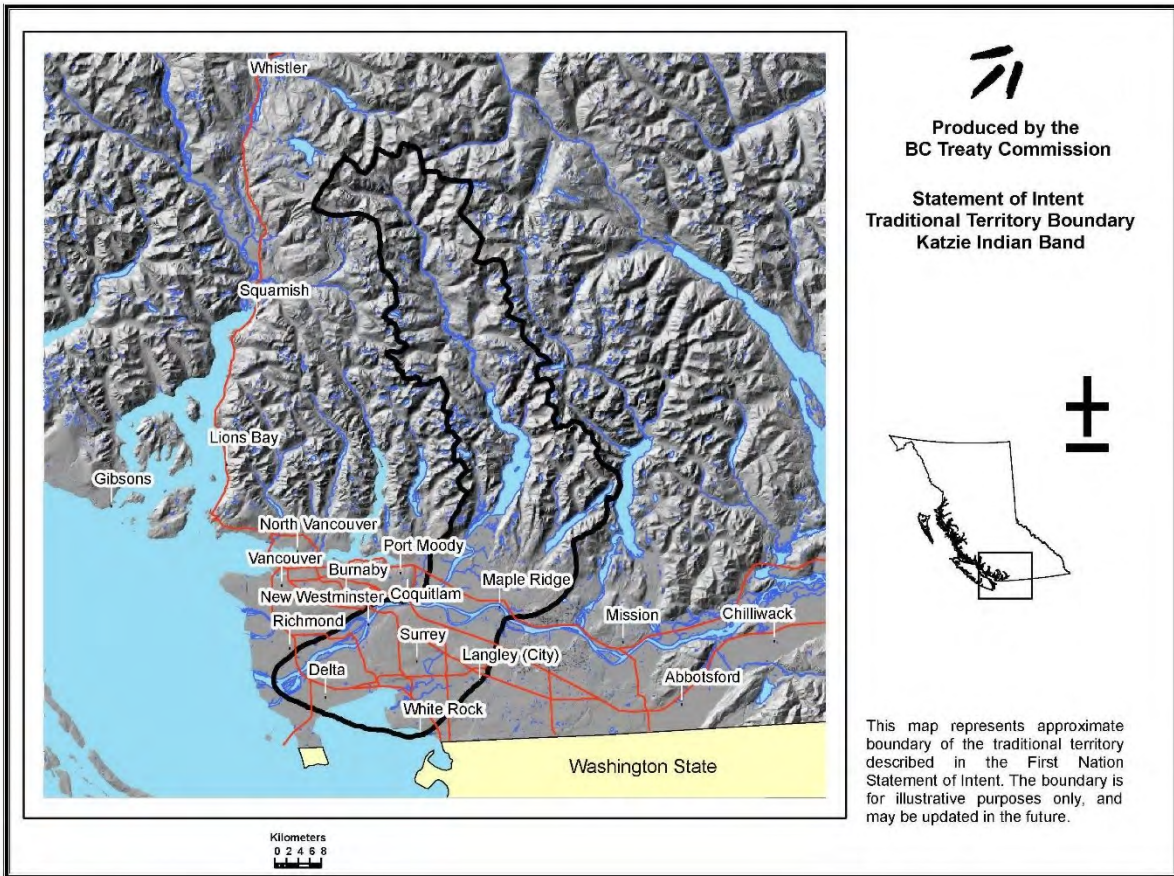
Memorandum of Understanding (MOU) between the Union of British Columbia Municipalities and the Ministry of Indigenous Relations and Reconciliation can be found here:

<https://www.ubcm.ca/sites/default/files/2021-09/mirr - ubcm mou 2021 - signed.pdf>

2021 Annual Report from the BC Treaty Commission can be found here:

BCTC_Annual_Report_2021.pdf (bctreaty.ca)

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The Roles and Responsibilities of Treaty Table Representatives

Provide information to the Indigenous Relations Committee from the Treaty Table

1. Attend Metro Vancouver's Indigenous Relations Committee meetings, engage in discussion, and record outcomes.
2. Provide regular verbal information reports on table activities.
3. Provide advice and commentary on emerging issues.
4. Complete and circulate issue tracking reports.
5. Provide regular written information reports and related documentation for circulation to the Indigenous Relations Committee.
6. Regularly forward original table documentation to keep the master record updated.
7. Forward technical and other information requests from the treaty table to the Indigenous Relations Committee for action.
8. Develop a personal information records system for table specific documentation.
9. Adhere to all confidentiality requirements.

Provide information from the Indigenous Relations Committee to the Treaty Table (via BC negotiators)

1. Attend table meetings, engage in discussion, and record outcomes.
2. Keep informed on treaty issues and Indigenous relations.
3. Represent member local government interests.
4. Provide advice and commentary from a community perspective on issues impacting local government interests.
5. Report back on technical and other information requested by the treaty table.
6. Develop a personal information records system for table specific documentation.

To: Finance Committee

From: Linda Sabatini, Acting Director, Financial Operations

Date: April 22, 2022 Meeting Date: May 12, 2022

Subject: **2021 Statement of Financial Information**

RECOMMENDATION

That the MVRD Board approve the Statement of Financial Information for the year ended December 31, 2021.

EXECUTIVE SUMMARY

The *Financial Information Act* is provincial legislation that requires local governments to annually submit to the Board for approval the Statement of Financial Information (SOFI) Report. The SOFI consists of a series of statements and schedules, three of which are an integral part of the 2021 annual audited financial statements which were approved by the Board on April 29, 2022. Seven additional 2021 SOFI schedules are included in Attachment 1. These schedules include payments of remuneration and expenses for elected officials and employees, and payments to suppliers for goods and services. The Board approval of these additional SOFI schedules completes the 2021 financial reporting requirements.

The remuneration for elected officials in 2021 was \$1.4 million, 9.9% lower than the prior year, as the prior year included retroactive adjustments to remuneration calculated from January 2019. Total remuneration for employees in 2021 was \$185.5 million, 11.1% higher than 2020, largely a result of general labour adjustments from collective agreement settlements, including two years of retroactive pay calculated from January 2020.

PURPOSE

To present for approval the 2021 Statement of Financial Information (SOFI) as part of the reporting requirements of the *Financial Information Act*.

BACKGROUND

The *Financial Information Act* is provincial legislation that requires local governments to prepare the following statements and schedules annually:

- statement of assets and liabilities;
- statement of operations;
- schedule of debt;
- schedule of guarantee and indemnity agreements;
- schedule showing remuneration and expenses paid to or on behalf of each employee that exceeds \$75,000 and amounts paid to or on behalf of elected officials; and
- schedule showing the payments for each supplier of goods or services that exceeds \$25,000.

This report is being brought forward to comply with the requirements of the *Financial Information Act*.

SUPPLEMENTARY INFORMATION SCHEDULES

The 2021 annual audited financial statements, which were approved by the Board on April 29, 2022, satisfies the first three requirements of the SOFI reports. The remaining three requirements are met by Schedules 1 to 7 included in the attachment to this report.

Schedules 1 to 4 presents the remuneration and expenses paid to or on behalf of directors, committee members, employees and any severance payments as well as a reconciliation of these amounts to the financial statements. Expenses included are those incurred while conducting Metro Vancouver business. Schedules 5 to 7 reports the payments made to suppliers in Canadian or US dollars as well as a reconciliation of the payments to the annual financial statements.

The remuneration for elected officials in 2021 was \$1.4 million, 9.9% lower than the prior year, as the prior year included retroactive adjustments to remuneration calculated from January 2019. Total remuneration for employees in 2021 was \$185.5 million, 11.1% higher than 2020, largely a result of general labour adjustments from collective agreement settlements, including two years of retroactive pay calculated from January 2020.

ALTERNATIVES

This report completes a statutory requirement; no alternatives are presented.

FINANCIAL IMPLICATIONS

This report provides details of 2021 results based on statutory requirement, there are no further financial implications.

CONCLUSION

The 2021 annual audited financial statements were approved by the Board on April 29, 2022. Schedules 1 to 7 in the attachment to this report provides the additional information required under the *Financial Information Act*. Approval concludes the legislated requirements.

Once approved, the *Financial Information Act* filing information is available for viewing by the public and anyone can acquire a hard copy of the information from the Finance Services Department for a fee of \$5.00¹.

Attachments

1. Statement of Financial Information for the Year Ended December 31, 2021, dated May 2022
(Doc # 45286699)

¹ The fee is prescribed by provincial regulation.

**METRO VANCOUVER
FINANCIAL INFORMATION ACT FILING**

**STATEMENT OF FINANCIAL INFORMATION
FOR THE YEAR ENDED DECEMBER 31, 2021**

May 2022

THIS STATEMENT OF FINANCIAL INFORMATION INCLUDES THE ACCOUNTS OF:

**METRO VANCOUVER REGIONAL DISTRICT
GREATER VANCOUVER WATER DISTRICT
GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
METRO VANCOUVER HOUSING CORPORATION**



**Metro Vancouver Regional District
Greater Vancouver Water District
Greater Vancouver Sewerage & Drainage District
Metro Vancouver Housing Corporation**

2021 STATEMENT OF FINANCIAL INFORMATION APPROVAL

The undersigned, as authorized by the Financial Information Regulation, Schedule 1, subsection 9(2), approves all the statements and schedules included in this 2021 Statement of Financial Information, produced under the *Financial Information Act*.

Dean Rear,
Chief Financial Officer
May 5, 2022

Prepared pursuant to the Financial Information Regulation, Schedule 1, section 9

STATEMENT OF FINANCIAL INFORMATION
For the Year Ended December 31, 2021

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Payments to U.S. Suppliers (\$US)	Schedule 6
Reconciliation of Payments for Goods and Services to Financial Statement.....	Schedule 7

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Members of the Board of Directors, Elected Officials and Standing Committees

NAME	POSITION*	TOTAL REMUNERATION	EXPENSES
Albrecht,Paul	Council of Councils	\$ 950	\$ -
Ander,Gary	Committee Member	1,900	-
Anderson,Bridgitte	Committee Member	2,375	-
Andrews,Janet	Committee Member	2,375	-
Annis,Linda	Board Member	14,725	345
Armstrong,Robert	Committee Member	1,900	-
Arnason,Petrina	Board Member (Alternate)	5,225	-
Arsens,Gina	Committee Member	1,425	-
Asmundson,Brent	Board Member (Alternate)	5,225	-
Au,Chak	Board Member (Alternate)	950	-
Back,Holly	Committee Member	1,425	-
Back,Jordan	Council of Councils	950	-
Bain,Fred	Board Member (Alternate)	950	-
Baird,Ken	Board Member	20,900	-
Baird,Kim	Committee Member	1,900	-
Bell,Don	Committee Member	5,700	-
Bligh,Rebecca	Board Member (Alternate)	4,275	-
Bond,Mathew	Committee Member	3,800	-
Booth,Mary-Ann	Board Member	28,413	-
Boyle,Christine	Board Member	11,875	-
Brodie,Malcolm	Board Member	32,208	-
Buchanan,Linda	Board Vice Chair	55,918	652
Calendino,Pietro	Board Member	24,700	-
Cameron,Craig	Committee Member	950	-
Carr,Adriane	Board Member	20,813	-
Chesney,David	Council of Councils	950	-
Choo,Queenie	Committee Member	2,375	-
Clark,Carolina	Board Member (Alternate)	14,725	-
Copeland,Dan	Committee Member	4,275	-
Coté,Jonathan	Board Member	36,013	554
Curry,Joanne	Committee Member	2,375	-
Darling,Steve	Council of Councils	950	-
Das,Chinu	Council of Councils	950	-
Day,Carol	Council of Councils	950	-
De Genova,Melissa	Board Member	12,825	-
Dhaliwal,Satvinder	Board Chair	103,285	2,631
Dhillon,Peter	Committee Member	1,425	-
Dilworth,Diana	Committee Member	4,750	-

* "Committee Member" refers to individuals who sit on Metro Vancouver Standing Committees.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Members of the Board of Directors, Elected Officials and Standing Committees

NAME	POSITION*	TOTAL REMUNERATION	EXPENSES
Dingwall,William	Board Member	27,550	-
Dominato,Lisa	Board Member	15,675	-
Drake,Bruce	Council of Councils	950	-
Dueck,Judy	Board Member (Alternate)	5,225	-
Dupont,Laura	Committee Member	2,375	-
Elford,Doug	Board Member	23,275	-
Faoro,Paul	Committee Member	1,900	-
Fast,Sue Ellen	Council of Councils	950	-
Fathers,Helen	Committee Member	3,325	-
Feeley,Mike	Board Member (Alternate)	475	-
Ferguson,Stephen	Committee Member	17,100	1,315
Finlayson,Jock	Committee Member	2,375	-
Forbes,Betty	Council of Councils	950	-
Froese,Jack	Board Member	40,278	320
Fry,Pete	Board Member (Alternate)	15,675	154
Gambiola,Nora	Board Member (Alternate)	4,275	-
Girard,Angela	Board Member (Alternate)	950	-
Gu,Alison	Board Member (Alternate)	475	-
Guerra,Laurie	Board Member	19,475	-
Guichon,Alicia	Committee Member	4,275	-
Hanson,James	Committee Member	1,900	-
Hardwick,Colleen	Board Member	10,925	-
Harvie,George	Board Member	23,663	-
Hayes,Mike	Council of Councils	950	-
Helsley,Robert	Committee Member	1,425	-
Hillman,Michael	Board Member (Alternate)	475	-
Hobbs,Andrew	Council of Councils	475	-
Hocking,Dave	Board Member	19,950	-
Hodge,Craig	Board Member	29,925	603
Hu,Tina	Committee Member	2,850	-
Hunt,Stephen	Committee Member	1,425	-
Hurley,Mike	Board Member	34,113	545
Jackson,Jeanette	Committee Member	2,375	-
James,Teri	Council of Councils	950	-
Johanson,Erika	Council of Councils	950	-
Johnston,Dan	Council of Councils	475	-
Johnstone,Patrick	Council of Councils	950	-
Jordan,Colleen	Council of Councils	950	-

* "Committee Member" refers to individuals who sit on Metro Vancouver Standing Committees.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Members of the Board of Directors, Elected Officials and Standing Committees

NAME	POSITION*	TOTAL REMUNERATION	EXPENSES
Kanakos,Jeannie	Board Member (Alternate)	1,900	1,055
Keithley,Joe	Board Member (Alternate)	5,700	-
Kim,Steve	Council of Councils	950	-
Kirby-Yung,Sarah	Board Member (Alternate)	6,650	559
Krier,Polly	Council of Councils	950	-
Kristjanson,Scott	Council of Councils	950	-
Kruger,Dylan	Board Member	12,350	-
Kunst,Margaret	Council of Councils	950	-
Lahti,Meghan	Council of Councils	950	-
Lambur,Peter	Council of Councils	950	-
Lewis,Christopher	Committee Member	2,375	-
Little,Mike	Board Member (Alternate)	13,300	-
Locke,Brenda	Board Member (Alternate)	1,900	-
Long,Bob	Board Member (Alternate)	5,225	345
Loo,Alexa	Board Member (Alternate)	5,700	-
Lubik,Amy	Council of Councils	475	-
Madsen,Hunter	Board Member (Alternate)	2,375	-
Mandewo,Trish	Board Member (Alternate)	1,900	-
Manning,Anthony	Council of Councils	950	-
Marsden,Dennis	Committee Member	2,850	-
Martin,Gayle	Board Member	19,000	-
McCallum,Doug	Board Member	16,625	-
McCurrach,Nancy	Council of Councils	1,420	-
McCutcheon,Jen	Board Member	58,520	202
McDonald,Bruce	Board Member (Alternate)	10,450	-
McEvoy,Jaimie	Council of Councils	475	-
McEwen,John	Board Member	45,508	5,113
McIlroy,Jessica	Council of Councils	4,275	-
McLaughlin,Ronald	Board Member	21,845	-
McNulty,William	Board Member (Alternate)	3,800	-
McPhail,Linda	Board Member (Alternate)	1,900	-
Meachen,Bob	Council of Councils	950	-
Meadus,Chelsa	Committee Member	2,850	-
Milani,Steve	Council of Councils	475	-
Miyashita,Tracy	Board Member (Alternate)	6,175	-
Morden,Michael	Board Member	21,375	-
Morse,Alison	Council of Councils	950	-
Muri,Lisa	Board Member	25,088	-

* "Committee Member" refers to individuals who sit on Metro Vancouver Standing Committees.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Members of the Board of Directors, Elected Officials and Standing Committees

NAME	POSITION*	TOTAL REMUNERATION	EXPENSES
Mustel,Evi	Committee Member	2,375	-
Nagra,Mandeep	Board Member	8,550	-
Nakagawa,Nadine	Council of Councils	950	-
Nicholson,Maureen	Board Member (Alternate)	6,650	-
O'Connell,Gwen	Council of Councils	950	-
Pachal,Nathan	Council of Councils	950	-
Patton,Allison	Board Member	15,200	-
Penner,Darrell	Board Member (Alternate)	6,650	-
Pettigrew,Steven	Council of Councils	950	-
Pollock,Glenn	Committee Member	3,325	-
Puchmayr,Charles	Committee Member	2,375	-
Richter,Kimberly	Board Member	15,675	-
Robson,Gordon	Council of Councils	475	-
Ross,Jamie	Board Member	10,450	-
Royer,Zoe	Council of Councils	4,750	-
Simpson,Anena	Council of Councils	950	-
Snell,John	Council of Councils	950	-
Soprovich,William	Committee Member	6,650	-
Stachova,Olga	Committee Member	1,900	-
Steves,Harold	Board Member	20,900	-
Stewart,Kennedy	Board Member	475	-
Stewart,Richard	Board Member	28,888	-
Storteboom,Rudolph	Committee Member	5,700	554
Svendsen,Ryan	Committee Member	5,225	-
Swanson,Jean	Council of Councils	950	-
Tam,Bill	Committee Member	475	-
Thompson,Sharon	Council of Councils	950	-
Towner,Teresa	Committee Member	3,800	-
Trentadue,Mary	Board Member (Alternate)	10,450	-
Trevelyan,Christopher	Board Member (Alternate)	950	-
Vagramov,Robert	Board Member	28,975	-
Valente,Tony	Council of Councils	950	-
van den Broek,Valaria	Committee Member	9,500	-
Vrooman,Tamara	Committee Member	950	-
Walker,Darryl	Board Member	24,225	1,310
Wallace,Rosemary	Board Member (Alternate)	475	-
Wang,James	Board Member (Alternate)	1,425	-
West,Bradley	Board Member	28,888	-

* "Committee Member" refers to individuals who sit on Metro Vancouver Standing Committees.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Members of the Board of Directors, Elected Officials and Standing Committees

NAME	POSITION*	TOTAL REMUNERATION	EXPENSES
Weverink,Paul	Board Member (Alternate)	475	-
Wheatley,Scott	Committee Member	2,375	-
Whitmarsh,Blair	Council of Councils	950	-
Wiebe,Michael	Board Member	20,425	4,724
Wilder,Liisa	Council of Councils	475	-
Wilson,Chris	Council of Councils	950	-
Wolfe,Michael	Council of Councils	950	-
Wong,Marcus	Council of Councils	950	-
Wynn-Williams,Andrew	Committee Member	475	-
Yousef,Ahmed	Council of Councils	5,225	-
Zarrillo,Bonita	Council of Councils	1,425	-
TOTAL		\$ 1,370,509	\$ 20,981

* "Committee Member" refers to individuals who sit on Metro Vancouver Standing Committees.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Abdel-Salam, Mohamed	\$ 120,402	\$ 10,073	\$ 1,378
Abhari, Saum	64,195	22,859	740
Abhari, Soroush	65,400	14,346	1,382
Abraham, Thomas	114,293	9,319	487
Abu Bakar, Ari	76,560	8,340	-
Adamoski, David	86,604	4,566	393
Adamson, Jane	126,258	9,171	1,261
Aderneck, Eric	121,537	8,317	1,011
Adey, Maria	115,895	9,154	958
Agecoutay, Brian	86,740	18,144	-
Ainsley, Darryl	164,858	13,148	-
Ajgaonkar, Priya	82,413	4,917	765
Aldaba, Alain	116,973	28,127	1,087
Alexander, Murray	106,933	5,653	143
Algar, Mike	81,240	10,539	-
Ali, Abid	103,645	5,738	799
Alibhai, Nimet	86,604	9,598	-
Allan, Chris	180,624	14,896	2,612
Anderson, Brian	77,396	20,289	24
Anderson, Cory	116,428	28,908	1,288
Anderson, Erik	81,240	10,809	2,855
Andrews, Dave	162,028	9,777	3,076
Anggabrata, Denny	126,057	9,940	1,205
Ansari, Fatima	92,827	7,232	1,635
Anthony, Vanessa	141,611	11,190	839
Apcev, Kristina	78,994	20,584	7,764
Appleton, Jeremy	94,840	14,797	1,044
Aquila, Marco	105,202	8,219	5,713
Arabsky, Jennifer	83,831	6,713	-
Arbab, Rostam	65,447	27,809	2,274
Arbo, Ross	84,886	8,481	1,476
Archer, Gordon	79,809	2,142	142
Arya, Sanjeev	106,933	9,079	154
Asher, Alistair	86,039	14,002	229
Ashford, Graeme	80,352	12,817	3,957
Askarzadeh, Ali	84,224	7,229	7,129
Asuelo, Ryan	92,629	20,556	2,944
Atchison, John	57,875	48,953	199
Atherton, Heather	82,780	3,770	910
Atkinson, Brooke	71,551	6,705	796
Atkinson, Holly	95,183	37,055	2,538
Au, Colleen	76,427	4,112	-
Au-Yeung, Alex	86,604	4,779	192
Aubin, Jean-Philippe	106,933	6,969	582
Aure, Loger	82,477	5,947	781
Babey, Mark	87,080	48,192	174
Backiel, Filip	83,485	9,327	4,274
Backiel, Robert	89,453	9,357	3,597
Bahgat, Ahmed	88,344	6,480	512
Bailey, Tom	92,151	5,092	1,258
Baillie, Diana	79,292	6,760	82

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Bains,Udham	114,808	11,832	3,811
Bajkin,Jugoslav	152,786	12,212	1,278
Baker,Marcia	69,782	25,209	396
Baker,Veronica	120,006	11,618	2,208
Bakharia,Adam	98,242	35,479	-
Ballack,Rawle	-	12,364	243
Banjanin,Dejan	126,152	9,987	1,954
Barbosa,Anthony	126,152	9,982	2,140
Baron,Amanda	164,666	13,001	8,567
Baron,Brett	88,042	6,607	2,073
Barratt,James	95,420	7,518	3,025
Barroetavena,Roberto	129,264	7,698	-
Barroga,Maria Luisa	79,649	3,952	279
Barron,Elaine	126,448	15,483	-
Bartley,Lori	76,427	4,677	904
Baruffa,Antonio	90,538	6,844	2,435
Basi,Bob	93,130	25,786	1,249
Basiri,Neshat	100,056	7,718	1,008
Baskalovic,Dragan	126,152	9,972	1,439
Basque,Shelly	98,383	7,946	-
Bates-Frymel,Laurie	121,785	11,039	879
Bator,Brad	116,428	33,613	779
Beairsto,Darren	102,885	11,310	1,173
Beatty,William	78,934	19,312	2,650
Bebek,Mike	84,886	9,422	1,522
Becker,Griffin	84,998	19,960	4,350
Bedrossian,Shant	91,771	16,653	1,130
Beere,Chris	89,194	19,367	1,934
Behzadi,Pouya	80,513	1,849	752
Bejer,Rolando	73,348	8,847	-
Belanger,Francis	69,698	5,760	5,797
Benjamin,Angelo	111,660	24,669	-
Bennet,Mark	78,625	9,095	1,854
Benton,Steve	76,349	8,513	6,102
Bergler,Suzz	85,235	24,827	3,314
Berglund,Mike	103,251	12,990	100
Berka,Caroline	85,809	6,658	1,144
Bernardino,Ernesto	89,453	15,060	487
Bertolini,Giovanni	63,366	12,371	8,830
Berube,Esther	110,851	7,416	1,095
Beukers,Robert	63,555	14,848	397
Beverley,Jessica	237,759	31,732	11,919
Bhat,Achintya	108,588	6,633	451
Bishay,Farida	130,131	10,274	992
Bittante,Diego	88,042	6,601	855
Bjelica,Milica	72,954	4,570	404
Black,Barb	76,427	6,085	-
Blair,Erik	104,006	5,468	1,687
Blendell,Melanie	76,362	19,636	10
Block,Randy	87,438	14,417	2,742
Boak,Maggie	156,677	13,047	1,724

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Bondar,Marla	107,717	5,841	1,118
Bonham,Nancy	103,728	8,158	450
Borsa,Jason	79,912	10,845	228
Boss,Mike	85,944	56,692	908
Botwright,Mark	84,856	42,675	1,001
Boucher,Vincent	125,867	10,126	1,402
Bousmina,Zoheir	126,202	10,072	1,878
Bouthot,Matthew	77,193	25,634	114
Bowe,Dana	87,693	11,778	1,494
Bradley,Don	166,334	13,564	504
Bradley,Rob	126,277	12,802	1,803
Braglewicz,Morgan	84,283	4,267	20
Brar,Paul	151,111	9,891	7,656
Braun Rodriguez,Catherine	89,315	2,933	520
Brett,Tom	89,453	26,134	609
Broughton,Darren	87,080	17,645	423
Brown,Debbie	106,933	5,669	411
Brown,Donna	68,934	10,161	-
Brown,Jo-Ella	87,080	30,014	114
Brown,Kevin	132,149	28,562	2,217
Brown,Scott	94,247	5,049	603
Brozer,Christy	75,620	12,867	-
Brumin,Leon	90,316	4,775	24
Bruno,Tommaso	74,688	6,807	-
Budolig,Robert	74,992	6,803	711
Buholzer,Paul	78,338	19,034	1,326
Bungubung,Renato	107,226	12,581	1,419
Burgess,Scott	69,193	26,276	1,034
Burr,Shane	95,287	25,426	4,557
Burtniak,Darryl	87,865	29,505	637
Burton,Brent	151,616	11,890	1,264
Burton,Tim	100,301	7,940	2,379
Bush,Kelly	116,181	9,130	2,951
Butler,Eileen	87,315	16,404	1,066
Buttner,Boyce	82,223	27,912	1,952
Buxton,Ian	94,290	19,078	2,941
Cabalfin,Nathan	119,859	7,710	3,806
Caculovic,Mathew	96,090	7,634	433
Calder,Ian	64,764	21,356	1,950
Calverley,Dylan	72,185	16,077	2,412
Calvert,Leslie	76,451	7,603	125
Camazzola,Jim	71,353	7,885	1,247
Campbell,Dan	68,504	40,823	887
Campeau,Bruce	83,738	17,975	392
Cantelo,John	74,698	16,669	114
Carabine,Anne	106,933	5,236	-
Carbajales,Nicolas	76,594	13,969	2,313
Carbone,Lorenzo	68,269	66,175	964
Cardinal,Brandon	63,799	13,767	6,273
Carley,Neal	263,664	33,983	1,548
Carlson,Dana	94,247	5,513	525

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Carmichael,Jeff	165,599	13,063	1,364
Carson,Mike	77,027	18,608	1,433
Carter,Lorn	165,511	17,201	1,192
Castellanos,Victor	98,287	7,964	910
Caufield,Kit	74,366	6,115	784
Ceglarek,Swavik	68,142	13,652	786
Cessford,Graeme	76,277	6,031	649
Chacko,Joseph	126,152	9,982	940
Chan,Alicia	84,781	9,034	1,734
Chan,Bobby	70,734	7,544	234
Chan,Eli	77,669	4,600	-
Chan,Ian	108,306	10,627	1,536
Chan,Jacky	102,427	7,276	2,705
Chan,Justin	80,586	4,526	1,864
Chan,Kenneth	92,629	4,104	-
Chan,Nicole	101,920	5,562	641
Chan,Nigel	92,629	7,435	1,276
Chan,Richard	141,611	11,201	1,067
Chan,Samuel	109,765	6,036	1,285
Chan,Shirley	103,728	5,387	1,376
Chan,Shuh	143,802	11,499	6,188
Chang-Kit,Ronald	83,738	33,338	727
Charlston,Lucas	67,158	18,216	1,283
Chee,Francis	119,118	9,329	3,318
Chen,Gerald	90,637	4,800	143
Cheng,Adrian	105,274	6,787	479
Cheng,Bob	169,175	13,123	1,010
Cheng,Doreen	86,604	4,589	1,076
Cheng,Elizabeth	98,242	15,867	-
Cheng,Shan	126,152	9,982	1,190
Cheng,Winson	126,152	9,982	910
Cheng,Yuk-Sing	165,160	12,961	3,424
Cheong,Tony	179,801	14,161	-
Cheung,Eddie	77,458	3,033	75
Cheung,Raymond	94,715	10,046	799
Chhina,Ravi	259,129	35,487	1,905
Chin,Adeline	126,152	9,986	1,251
Chin,Peter	132,732	10,301	1,594
Chin,Rose	96,024	2,271	2,548
Chin,Tony	84,886	28,141	2,544
Chiu,Gary	95,079	13,761	279
Chiu,Joe	92,859	19,372	2,631
Chiu,Quenton	55,139	26,697	8,466
Chong,Chris	90,316	6,726	129
Chow,Christopher	93,003	13,938	5,038
Chow,Jack	126,152	9,998	2,562
Chow,Larry	149,000	32,081	107
Choy,Harvey	141,611	11,151	3,234
Christensen,Brian	87,654	8,615	229
Christensen,Robert	85,953	6,798	4,963
Chu,Alfred	115,079	6,901	-

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Chu, Jerry	79,769	9,409	-
Chu, Maria Leomerita	76,427	4,140	104
Chung, Ambrose	74,668	5,903	833
Cichon, Lauren	71,548	5,046	-
Ciocan, Emil	94,311	9,044	297
Clark, Alanna	91,675	11,281	-
Clark, Cameron	118,292	8,310	807
Clark, Josephine	107,898	5,668	926
Clark-Jones, Frank	93,146	25,468	613
Clark-Jones, Peter	62,771	29,652	1,087
Clarke, Lisa	76,110	14,118	435
Clarke, Martin	141,611	11,204	951
Clews, Steve	78,455	40,713	631
Coates, Stuart	86,559	26,790	1,737
Cohen, Micah	66,691	40,536	1,099
Cojocariu, Anton	80,562	28,113	1,085
Cole, Britton	98,177	13,785	1,506
Coleman, Larry	72,536	17,779	356
Collins, John	90,316	7,161	525
Connelly, Shawn	93,111	22,069	2,544
Conner, Sheri	129,373	11,218	344
Conti, Aldo	79,912	21,215	220
Cooke, Rod	100,483	25,943	288
Coombes, Michael	90,316	4,875	383
Cordani, Adam	70,449	14,887	5,836
Corrigan, Patrick	111,613	49,593	1,774
Cote, Jennifer	66,880	11,982	2,620
Coughlan, Janaka	92,629	40,681	734
Coulman, Dan	90,124	24,911	1,461
Coulon, Harvey	106,933	5,704	-
Courage, Tyler	67,722	16,067	4,650
Coutinho, Eric	111,685	17,657	8,496
Cowan, Laurel	138,154	10,773	3,658
Creagh, Pat	86,604	16,385	3,782
Crosby, Jennifer	183,114	16,893	2,075
Crosthwait, Rebecca	126,152	9,982	700
Crowle, John	126,152	9,982	1,534
Cruickshank, Craig	79,489	20,947	559
Cruz-Rivera, Angelita	79,769	4,218	57
Csizmadia, Alexander	86,604	16,397	954
Cullen, Vanja	46,474	30,963	303
Cumming, Sheryl	108,647	7,497	1,708
D'Angelo, Rob	189,783	14,505	385
Dandridge, Xenia	93,202	5,103	224
Danis, Sebastien	93,167	8,664	-
Da Silva, Julie	75,443	4,764	-
Da Silva Sympovsky, Thalita	123,138	10,313	854
Daunais, Adam	98,242	30,395	16
Davies, Mike	141,623	10,541	619
Davis, Donna	90,583	7,204	150
Davis, Mackenzie	72,897	5,380	2,823

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Daw,Hanadi	95,205	7,231	165
De Boer,Andrew	168,179	23,868	1,519
De Geest,Kristine	106,933	5,836	1,248
De la Cour,Pierre	86,202	36,313	4,968
De Rose,Enzo	83,738	20,501	1,121
Deacon,Dan	92,225	44,967	702
Dempsey,Deirdre	72,355	5,231	605
Denboer,Bob	94,247	4,984	16
Denton,Gail	83,149	7,903	593
Deo,Mani	182,120	15,917	2,115
Desantis,Lino	66,449	10,531	482
Deuling,Jill	79,769	4,218	1,271
Dezura,Cameron	86,742	16,601	687
Dhatt,Harjinder	90,228	7,315	1,534
Dhillon,Jat	94,153	34,239	5,482
Dhillon,Manjit	86,604	4,588	-
Di Stasio,Tony	74,615	5,569	2,707
Diaz Ng,Albert	76,382	39,799	1,115
Dineen,Chris	91,384	17,102	855
Dion,Carly	115,804	9,195	-
Diotte,JL	94,247	12,662	765
Djapo,Mersid	63,029	14,385	57
Do,Matt	79,539	11,781	655
Dobrovoly,Jerry	383,624	42,027	6,068
Doerksen,Geoff	106,933	8,630	434
Doi,Andrew	106,933	5,653	965
Dolemeyer,Frank	116,721	29,196	686
Donaghy,Steve	98,831	8,858	531
Dong,Cathy	119,493	9,369	2,842
Dong,Tara	98,831	7,849	199
Doughty,Rob	126,668	10,022	117
Dove,Franklin	87,654	13,381	677
Downey,Bryce	71,181	18,452	470
Draghici,Emilian	84,886	34,087	4,975
Dragon,Willyam	142,369	24,854	1,290
Dreger,Clayton	94,576	39,509	1,680
Duarte,Romeo	77,061	7,674	-
Ducey,Mike	151,478	12,780	-
Duffield,Richard	87,346	11,857	4,181
Dugaro,Julia	103,225	5,366	2,338
Dunbar,Brent	83,738	9,201	778
Dunkley,Dave	126,152	7,915	1,334
Durkin,Tamara	83,011	6,568	1,818
Durrant,Christopher	88,042	19,179	515
Duso,Lucy	121,343	6,484	528
Duvall,Bill	194,834	17,515	4,080
Dwyer,Marty	131,817	10,296	2,878
Dybwad,Matthew	137,423	10,789	1,520
Dykman,Dan	121,203	9,867	1,771
Easton,Joe	76,186	14,009	55
Eastwood,Bill	102,886	6,347	-

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Ebinesan,Joshua	107,764	17,701	66
Edalat,Farnaz	110,405	8,713	1,235
Eely,Ted	63,555	13,820	144
Eisenkraft,Nicolas	87,761	16,407	717
Eldridge,Jordan	45,845	30,002	28
Elliott,Ken	84,880	10,739	-
Elliott,Lea	89,007	4,380	885
Ellis,Sean	76,339	13,602	574
Eloff,Leonard	93,697	13,416	295
Emmert,Jason	125,475	10,475	1,152
Eng,Raymond	142,724	11,209	1,525
Eng,Sam	80,562	3,247	-
Engelstad,Brock	96,076	17,599	-
England,Karin	104,007	6,333	5,988
Enns,Ronald	97,263	15,277	1,747
Enns,Thomas	90,316	5,750	143
Enquist,Luis	84,045	6,501	405
Erickson,Brian	97,992	25,899	373
Erickson,Dustin	112,584	8,829	2,942
Esguerra,David	86,085	31,202	-
Esguerra,Glen	83,149	4,396	55
Espinosa,Daisy	81,667	3,681	159
Esplen,Chad	72,182	15,718	191
Estrada,Ariel	126,535	10,059	2,148
Etches,Kris	98,242	7,340	1,275
Evanetz,Sarah	94,198	7,323	320
Fairbairn,Bob	83,738	6,819	-
Fallahi,Maryam	105,188	6,311	1,383
Fang,Andy	86,604	13,223	143
Fanzone,Paul	79,247	12,719	401
Farinelli,Zeno	126,152	10,043	1,579
Farkas,Rita	73,582	2,431	525
Farr,Jennifer	115,857	9,045	2,376
Faucher,Marc	81,711	11,008	2,474
Fehr,Callum	75,995	5,555	2,116
Felicella,Nick	83,332	8,694	295
Feng,Philip	102,406	13,085	2,758
Fereidouni,Reza	92,437	36,734	825
Ferguson,Dave	90,316	9,145	648
Ferland,Guillaume	77,763	57,033	3,686
Fernandes,Maricor	78,783	6,283	1,591
Fernie,Michele	86,604	4,530	775
Fiehn,Aaron	77,716	15,736	4,428
Fiehn,Chuck	85,723	23,341	1,059
Filush,Jake	81,939	11,029	394
Fitzpatrick,Jeffrey	153,981	12,211	9,719
Fitzpatrick,Jess	86,432	5,624	1,934
Flaks,David	197,999	24,249	1,931
Flesher,Scott	72,178	3,063	25
Folkard,Eric	69,837	24,953	1,303
Fong,Kimberly	80,415	14,094	1,452

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Ford,Bruce	94,247	8,351	418
Ford,Graham	90,540	31,506	380
Ford,Laurie	128,076	10,188	680
Forscutt,Jennifer	111,862	22,596	2,624
Forsyth,Scott	153,216	12,178	2,239
Foster,Chris	93,978	30,384	2,039
Fought,Rob	153,216	13,368	96
Fountain,Tanner	71,287	18,804	3,971
Fournier,Colleen	119,161	9,507	860
Francis,Bernard	69,685	6,260	-
Franken,Alisa	97,885	8,802	1,080
Fraser,Heather	85,189	23,092	1,571
Fraser,Paul	87,865	29,660	306
Freeman,Gregory	77,308	2,157	-
Friedrich,George	126,152	10,100	1,163
Friesen,Courtney	83,814	10,458	3,130
Frymel,Bart	90,316	5,929	24
Fuhrmann,Marlene	86,223	11,823	807
Fulton,Terry	118,304	9,156	1,641
Gaffud,Jerico	91,771	8,430	-
Gale,Evan	79,840	11,037	1,940
Gali,John	90,612	29,279	856
Gallilee,Rick	198,094	15,687	4,264
Galloway,Sean	166,776	12,077	975
Gamal El-Dean,Deyab	126,152	9,976	1,940
Gant,Murray	168,849	13,143	1,010
Garie,Noedup	82,407	7,953	573
Gasparro,George	102,406	11,777	1,176
Gastaldello,Catherine	76,427	4,488	56
Gatto,Nicole	76,675	3,989	877
Gauci,Joanne	121,343	6,404	525
Gaythorpe,Shane	70,976	28,280	1,753
Gee,Jennifer	76,427	4,057	-
Geeson,Graeme	78,568	32,884	1,088
Gehrer,Chris	92,622	54,506	1,528
Geil,Dan	126,420	10,111	1,907
Gellard,Joe	72,304	20,688	3,121
Genier,Max	81,581	44,759	2,814
Gentile,Gerry	81,240	15,551	1,105
Gentner,Ryan	89,449	4,709	-
Gerath,Guy	88,826	27,579	942
Gerryts,Megan	104,710	9,079	1,879
Gervais,Adam	88,614	11,172	1,325
Gheseger,Tania	98,242	5,195	6,825
Gibb,Allan	146,520	6,128	599
Gibson,Graeme	84,886	17,885	395
Giesbrecht,Paul	139,230	46,843	1,680
Gill Klair,Jag	131,306	24,248	4,561
Gill,Balroop	76,427	4,041	-
Gill,Jotty	98,418	25,519	-
Gill,Nancy	99,189	7,866	862

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SCHEDULE OF REMUNERATION AND EXPENSES
For the year ended December 31, 2021
Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Gilles,Bill	117,447	22,609	433
Gilroy,Devin	69,361	10,757	62
Girard,Kaylee	66,930	19,446	5,282
Gjerdalen,Luke	71,351	11,437	5,097
Glasgow,Cameron	87,654	27,362	711
Glass,Jennifer	126,152	9,982	588
Gleig,Derek	90,124	38,949	450
Glier,Monica	76,427	4,041	-
Glover,Michael	87,210	18,571	2,048
Gogel,Andy	77,052	12,779	1,807
Goh,Vila	120,416	9,422	1,329
Gomez-Garcia,Jose	111,467	20,897	-
Gonzalez,Ian	68,566	8,011	5,816
Goossens,Jason	87,058	10,251	1,403
Gothard,Matthew	124,538	11,457	1,072
Gow,Doug	87,822	4,141	188
Graham,Nela	131,716	27,514	1,945
Grant,Mielle	74,142	5,643	334
Gray,Lori	84,886	17,321	2,516
Green,Matthew	137,939	49,675	929
Greensill,Michael	70,625	55,791	580
Greenwood,Seann	68,536	9,253	734
Greer,Terry	67,524	9,536	199
Gregonia,Theresa	165,317	13,764	109
Greven,Ron	77,544	14,197	24
Grewal,Nick	95,102	10,166	3,572
Grewal,Ravi	132,691	11,891	1,067
Griffith,Lionel	79,008	31,462	1,387
Griffiths,Jacquie	196,775	28,443	6,844
Griffiths,Victor	91,771	6,856	789
Grill,Aaron	128,828	10,098	1,530
Gu,Li	142,616	11,244	1,060
Guiron,Warren	87,227	8,215	229
Guldemet,John	87,654	17,452	2,017
Guo,Tom	83,688	23,001	1,002
Ha,Bonnie	89,759	4,680	473
Hagens,Pete	79,330	8,523	-
Hahn,Tracy	101,835	8,101	28
Hair,Peter	114,937	21,494	2,939
Haliuk,Braeden	72,357	4,708	1,979
Halychuk,Paul	74,434	3,907	-
Hamza,Danny	93,003	24,809	1,201
Hanna,Dawn	79,769	4,218	1,247
Hansen,Angela	101,539	20,422	625
Harder,Susana	126,152	10,017	1,655
Haricombe,Jade	87,815	14,592	766
Haricombe,Lionel	87,654	12,370	448
Harmeson,Matt	86,914	13,842	1,248
Harms,Herman	89,915	15,772	2,222
Harris,Ed	97,625	14,925	1,391
Harris,Leanne	80,313	4,107	5,864

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Harrison,Stephanie	124,717	9,939	2,389
Hart,Catherine	86,032	7,664	3,700
Hart,Dennis	75,859	6,682	1,974
Hartley,Davis	66,649	16,761	1,761
Hartley,Elizabeth	94,247	5,802	1,230
Hatfull,Rod	71,690	7,216	174
Haughian,Paul	92,613	12,281	126
Haveman,Peter	73,348	3,879	-
Haw,Kevin	102,406	11,687	1,719
Hawkins,Curtis	63,087	18,338	1,126
Hayes,Jessica	104,883	7,155	3,022
Hayton,Scott	124,631	20,320	3,129
Hazell,Shaun	76,500	17,570	1,783
Hebner,Gail	153,493	12,177	-
Heidarian,Arezoo	126,152	10,257	7,587
Hemmati,Ehsan	85,234	5,662	2,021
Henderson,Paul	259,622	33,922	2,991
Heney,Jess	78,910	12,219	198
Herr,Alysia	78,579	6,058	-
Hewitt,Mike	89,700	8,583	5,178
Hickling,Charlene	96,515	5,128	-
Hicks,Robert	64,458	(9,925)	475
Hightower,Carrie	86,604	4,572	327
Hilkewich,Alison	78,783	6,283	-
Hilland,Stuart	74,848	4,783	885
Hingley,Jason	176,496	13,689	3,515
Hirvi Mayne,Maari	126,662	10,256	965
Ho,Alfred	129,519	12,487	126
Ho,Allen	91,771	11,830	410
Ho,Brandon	126,396	9,991	1,994
Ho,Chau	86,749	25,872	-
Ho,Florence	131,986	10,733	1,041
Ho,Hilda	94,037	5,699	856
Ho,John	93,848	6,268	1,752
Ho,Kate	99,494	8,527	1,658
Ho,Kimberly	101,286	8,427	2,577
Hockey,Jim	93,003	7,266	4,755
Hodzic,Mediha	90,077	28,415	2,076
Hoffman,Dave	129,954	37,185	252
Hogg,Erin	88,112	2,814	56
Holdenried,Ulli	85,523	36,416	1,490
Holm,Nathan	89,453	24,415	7,013
Holman,Jessica	86,604	4,582	576
Holt,Glenn	93,108	16,535	3,222
Holton,Janet	116,500	22,229	6,132
Hoonjan,Raj	126,415	10,982	1,176
Hoskins,Kelly	79,769	4,291	377
Hoverty,Colin	85,329	3,769	2,106
Howard,Kyle	63,262	11,927	2,666
Howard,Robert	71,042	5,222	667
Howe,Kyle	98,242	10,900	-

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SCHEDULE OF REMUNERATION AND EXPENSES
For the year ended December 31, 2021
Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Howell,John	76,362	12,140	-
Hrgovic,Amanda	105,547	6,040	1,458
Hrubizna,Jason	90,316	4,775	143
Huang,Gerry	126,152	9,973	1,486
Huang,Karen	76,489	9,377	167
Huber,Frank	170,963	15,190	997
Hudska,Monika	87,394	14,565	2,024
Hughes,Michael	141,290	25,899	1,358
Hughes,Mike	86,604	4,703	1,101
Hui,Kenneth	147,789	11,631	1,182
Hui,Terry	157,204	31,927	1,087
Hulme,Mark	76,427	4,036	962
Hume,Jade	163,649	13,329	891
Hundle,Nav	75,104	2,799	-
Hung,Stacey	83,793	6,466	3,581
Hung,Wayne	110,366	17,290	759
Hunt,Andrew	141,623	38,247	636
Hunt,Janelle	110,952	8,376	1,426
Hunte,Carlos	128,941	12,963	1,533
Huskisson,Kevin	76,362	11,891	1,188
Hustwait,Mark	97,549	10,087	-
Hutchins,Peter	107,558	8,656	1,141
Hynes,Shaunna	86,888	13,199	617
Hystad,Graeme	83,340	4,287	2,632
Inglis,Gordon	153,216	15,485	145
Iosub,Catalin	91,771	20,698	9,703
Irimia,Andreea	117,320	7,479	2,183
Irimia,Tatiana	126,152	9,984	1,757
Islam,Shafiqul	126,152	9,982	1,131
Israel,Sue	99,085	7,871	-
Iulianella,Chris	76,978	8,559	732
Jacinto,Jason	71,491	4,338	2,373
Jackman,Thomas	78,372	12,670	1,098
Jackson,Bob	87,080	14,032	-
Jacques,Lisa	116,866	21,493	4,093
Jadrijevic,Renato	128,622	20,003	1,788
Jamieson,Nathan	127,051	10,085	1,622
Jang,Colin	76,427	8,520	-
Jang,Gary	73,503	3,914	24
Jang,Jason	86,604	6,237	187
Jankovic,Lidija	82,595	4,224	109
Japson,Marlon	79,499	23,314	570
Jarvis,Janice	99,421	5,260	2,075
Jelenici,Flori	119,898	8,849	677
Jeliazkova,Diana	88,910	4,002	-
Jenkinson,Dan	79,462	10,329	741
Jenkinson,Kris	86,762	43,375	1,054
Jennejohn,Derek	141,772	11,202	846
Jensen,Allen	110,246	8,560	2,845
Jensen,Blake	68,402	16,278	405
Jeon,Won	85,654	31,909	1,836

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Jeon,Yohan	93,889	7,706	2,179
Jew,Brandon	100,516	5,350	167
Ji,Tony	126,152	9,982	2,510
Jivraj,Tameeza	134,923	11,335	558
Johal,Sonny	94,575	4,944	2,522
Johnson,Samuel	79,239	9,474	2,090
Joiya,Rajiv	128,076	10,194	667
Jokic,Mike	126,351	9,980	1,275
Jones,Ken	64,005	16,006	9,269
Jones,Michelle	89,773	4,777	624
Jordan,Aj	111,554	16,547	-
Jordan,Faye	92,004	6,934	24
Jung,Don	93,003	19,541	685
Jutric,Branislav	129,450	10,308	1,372
Kadota,Paul	153,795	12,068	1,837
Kailley,Sonu	143,398	11,364	375
Kan,Siak	87,654	3,863	-
Kang,Jasmit	63,408	14,548	1,505
Kardooni,Masoud	87,512	10,261	224
Karn,Katie	101,557	5,611	719
Karpinski,Al	88,158	25,765	1,120
Kassam,Amin	168,952	14,159	1,087
Keeney,Dave	72,468	9,883	734
Kelder,Brandon	85,428	46,389	372
Kelder,Mike	81,240	1,537	-
Kelly,Quinn	85,482	35,688	102
Kemp,Rob	81,345	8,746	288
Kennedy,Al	87,565	26,821	1,677
Kennedy,Marcus	87,866	7,704	60
Kerin,Brian	85,592	6,635	1,089
Khanna,Uma	79,769	4,155	783
Khun-Khun,Manny	65,984	36,119	1,530
Kim,Brian	104,738	8,385	1,371
Kim,Tae	88,042	27,587	1,598
Kimble,Willard	90,344	11,443	825
Kimmel,Chris	81,827	4,366	2,183
King,James	89,951	20,395	4,531
Kingdon,Michele	98,831	7,873	-
Kingma,Kevin	67,866	40,499	1,665
Kirchen,Krystal	122,403	16,383	1,527
Kirkpatrick,Brent	141,810	11,234	1,372
Kishore,Eileen	77,573	6,182	1,216
Kitchen,Tess	70,419	15,463	1,360
Klick,Dennis	86,604	14,483	4,134
Knape,Theron	141,623	20,202	133
Knapp,Brandon	83,274	6,881	581
Knaupp,Janis	103,832	12,109	202
Knezevic-Stevanovic,Andjela	179,933	14,268	1,933
Ko,Collin	78,261	40,312	8,874
Kohan,Rozita	126,152	9,982	1,520
Kohl,Paul	194,535	15,673	873

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(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Kolewe,Alex	75,249	6,061	100
Kolomyeychuk,Olha	86,604	9,978	555
Kong,Brandon	67,412	9,065	328
Kopp,Doug	128,410	15,005	-
Kosiance,Brad	91,218	18,906	546
Kovacevik,Mike	91,771	11,782	380
Kovacevik,Natasha	83,605	11,122	81
Kovacik,Mark	76,427	4,341	440
Kozier,Fred	94,932	5,344	683
Koziki,Tyler	82,389	8,742	7,240
Kozljan,Ivan	87,729	12,293	-
Krahn,Daniel	76,150	18,966	267
Kramer,Nancy	65,000	16,372	2,720
Krickemeyer,Lina	89,500	8,794	24
Kristensen,Don	93,239	16,253	983
Kronstal,Elizabeth	90,976	25,081	2,249
Kuczma,Joseph	89,453	31,864	4,044
Kurenov,Cassandra	130,459	23,389	1,418
Kusmu,Yonas	68,861	15,146	5,127
Kwan,Kristy	153,216	16,322	2,231
Kylmala,Kari	90,124	32,322	349
Kylmala,Senja	124,225	32,227	2,990
LaBreche,Marcel	116,866	18,011	661
Lacey,Lauren	88,225	29,628	1,984
Lachambre,Lucas	67,974	14,557	3,771
Lacoste,Peter	88,668	13,895	576
Laird,Cam	116,318	17,733	2,810
Laliberte,Michel	115,261	10,003	247
Lam,Fong	93,991	8,013	560
Lam,Heidi	93,482	4,851	8
Lam,Kitty	85,172	4,571	1,162
Lam,Paul	84,109	11,180	1,538
Lam,Paul	116,439	20,307	-
Lam,Whitney	94,247	5,312	1,444
Lan,Yao-Hung	126,152	9,989	1,300
Landry,Lynn	142,051	11,307	1,482
Lang,Mark	86,292	43,221	1,272
Langeloo,Annika	82,704	4,047	19
Langeloo,Tyler	117,247	22,801	210
Lanz,Ann Marie	83,831	6,604	149
Larkin,Keith	86,997	31,905	1,847
Laskowski,Sebastian	69,078	27,758	1,068
Lau,Carmen	90,316	4,704	-
Lau,Kent	77,562	4,807	1,350
Law,Brennan	66,741	38,160	198
Lawrance,Peter	76,427	7,229	1,372
Lawson,Jean	111,225	6,867	30
Layne,Deion	67,636	14,747	1,075
Lazzano,Joe	63,351	16,590	1,408
Le Noble,Josh	85,011	25,995	1,565
Le Penven,Gaëlle	128,570	10,069	1,234

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SCHEDULE OF REMUNERATION AND EXPENSES
For the year ended December 31, 2021
Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Le,Johnny	76,088	6,036	71
Leavers,David	148,746	11,798	656
Leclair,Jules	98,242	4,884	-
Lee,Ann	85,361	12,727	3,492
Lee,Darren	118,434	7,407	1,430
Lee,Jeremy	74,913	3,881	64
Lee,Ken	16,115	94,787	-
Lee,Sarah	106,340	25,172	1,660
Lee,Sue	72,261	3,724	104
Lee,Vanessa	76,427	4,592	766
Legault,Sue	85,506	30,926	961
Lenardon,Vincent	110,973	25,622	1,326
Lenning,Dan	129,972	10,753	211
Leong,Loke	92,629	19,900	224
Lepore,Alfredo	77,558	27,647	4,485
Lepore,Pete	75,202	55,820	890
Leroux,Jason	76,254	19,429	191
Leroux,Rhea	68,536	7,286	174
Leslie,Gary	79,946	11,280	-
Letcher,Amanda	91,572	12,014	11
Leung,Betty	83,149	4,395	152
Leung,Mabel	130,069	10,736	1,725
Leung,Michelle	94,247	5,404	343
Leung,Percy	86,604	4,579	24
Leung,Tony	80,587	5,696	1,248
Lewis,Warren	90,123	15,839	346
Li,Alan	126,152	9,982	450
Li,Vanessa	84,054	10,040	360
Li,Wen	110,547	9,039	3,783
Li,William	67,494	31,463	1,357
Lin,Echo	126,152	9,832	1,135
Lindenbach,Bettina	78,783	6,283	216
Lindner,John	106,933	6,326	-
Lindsay,Amil	126,152	18,547	2,198
Lindsay,Celine	79,284	26,784	528
Lindsay,Shelley	119,744	12,551	817
Ling,Andrew	132,281	10,232	450
Lip,Alfred	119,572	9,565	1,468
Litt,Paul	137,731	10,643	1,506
Liu,Douglas	102,406	8,033	1,753
Liu,Joan	129,948	10,781	1,699
Liu-Pope,Jacqueline	120,419	9,156	1,238
Lo,Anthony	87,696	5,035	147
Lo,Benson	123,515	9,775	1,487
Lo,Maria	93,085	6,987	2,280
Lo,Tina	97,472	3,474	1,303
Logan,Kurt	92,648	11,212	877
Longson,John	71,261	48,061	387
Lopez,Larina	165,473	13,060	1,921
Louie,Alvin	76,427	5,295	132
Louie,Angela	114,879	7,802	1,479

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Louie, Terry	126,277	10,012	1,378
Lovell, Jeffrey	153,512	12,134	1,506
Lovell, Ken	74,688	16,764	114
Low, Mona	102,406	5,875	4,282
Lowe, Jason	69,357	9,753	422
Luccock, Dylan	86,604	13,679	84
Ludeman, Megan	78,021	6,141	-
Luft, Candace	119,730	9,537	940
Lui, Gordon	165,323	13,981	2,551
Luk, Brian	78,783	7,140	1,826
Luongo, Ralph	141,750	26,272	1,897
Lupien, Cam	83,339	15,547	1,175
Lynch, Adrian	102,808	8,641	1,225
Lytwyn, Ben	91,754	8,407	1,099
Ma, Meng	73,348	4,932	141
MacArthur, Rob	131,037	10,284	2,190
MacConnell, Mark	57,434	24,651	928
MacDonald, Brad	80,994	27,017	198
MacDonald, Tom	89,495	45,096	667
MacLean, Maria	70,654	6,905	621
MacLeod, Ian	82,321	13,411	849
MacPherson, Kevin	63,555	13,992	397
Mackay, Ted	87,865	42,073	1,325
Macomber, Ken	87,951	5,757	427
Madsen, Perry	153,649	19,444	608
Mah, Silvana	72,734	4,191	697
Mah, Sue	81,574	7,696	174
Mah, Wayne	106,933	11,879	1,399
Mahdavi, Mohammad	148,713	11,745	1,880
Mahdi, Ammar	99,191	4,949	1,861
Mahmood, Saleem	126,152	34,800	2,345
Mair, Koszima	123,241	9,665	993
Maloku, Tahir	145,001	27,206	403
Mangat, Amy	121,437	9,577	1,748
Manning, Ian	142,262	36,897	3,094
Manzer, Deanne	97,642	5,075	560
Marc, Marie-Liesse	196,775	13,033	723
Marchand, Rick	141,623	41,685	31
Marchioni, John	97,549	30,288	1,502
Marcos, Natalia	93,003	5,389	148
Marin, Emilian	91,306	37,464	1,509
Markovic-Mirovic, Natasha	86,604	10,362	334
Marr, Andrew	181,224	13,950	1,031
Marsh, Alex	80,781	39,843	483
Marsh, Houston	86,765	4,609	2,282
Marshall, Lance	86,013	11,902	2,335
Marshall, Peter	82,984	23,416	50
Martin, Brian	91,776	34,884	1,528
Martin, Cliff	75,971	46,232	4,469
Martin, Kelly	85,801	35,435	934
Martin, Olivier	70,665	10,318	2,903

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Martinovic,Nick	89,453	16,209	158
Masoom,Shaheli	126,152	10,007	1,243
Masse,Ken	130,206	10,124	1,258
Matharu,Karanpreet	75,861	5,533	1,743
Maung,Todd	86,824	36,242	797
Maximuk,Greg	116,318	9,954	775
Mayers,Mike	153,758	29,151	57
Mayo,Erin	87,865	14,296	1,201
Mazur,Jadwiga	83,149	5,033	190
Mbugua,Charles	59,036	18,042	96
McAllister,David	79,254	37,509	603
McAuley,Chris	88,924	4,622	607
McBeath,Suzanne	92,391	5,099	285
McBeth,Kyle	122,178	55,205	604
McClelland,Alex	82,984	3,222	6,538
McComb,Tom	116,898	16,411	5,865
McCormick,Martin	87,654	6,276	229
McCorquodale,Rob	58,347	30,765	2,046
McCuaig,Amanda	161,093	10,659	4,977
McDonald,Brian	82,984	12,438	1,867
McGillivray,Deanna	74,751	9,259	1,077
McGillivray,Grant	102,406	8,527	-
McKague,Dave	103,290	11,838	1,666
McLaughlin,Sean	95,673	10,186	2,033
McLean,Colin	95,666	27,179	1,851
McLean,Steve	97,701	22,760	890
McLellan,Sean	72,319	29,460	208
McMahon,John	141,818	11,273	1,266
McMann,Brad	93,003	22,563	319
McMaster,Tanya	83,831	6,683	317
McMichael,Mitch	83,738	3,744	102
McNeil,Scott	73,734	27,344	741
McNell,Heather	228,689	38,977	24
McPherson,Janet	79,769	4,218	-
McQuillan,Dan	98,071	9,033	1,025
Meawad,Hossam	92,145	3,894	244
Medeiros,Jesse	88,017	8,808	1,129
Melanson,Joel	165,687	13,135	817
Meldrum,Colin	187,243	15,824	1,084
Mercado,Ralph	98,917	7,565	1,462
Mercer,Sean	76,786	5,232	1,725
Merkens,Markus	98,242	5,196	3,653
Merry,Cal	141,611	11,537	1,314
Messer,Aaron	85,506	6,663	1,168
Messere,Tony	85,705	37,858	3,003
Meyer,Bill	125,674	7,491	940
Meyer,Craig	89,720	21,057	1,183
Meynert,Franz	9,906	80,183	460
Michaelson,Jason	74,469	11,363	2,008
Micsoniu,Rodica	129,264	11,025	-
Mijares,Mike	76,427	9,419	4,789

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Miller, Kyle	91,990	19,834	8,371
Miller, Nick	90,454	21,398	796
Miller, Robin	126,898	9,996	1,087
Mills, Richard	86,914	15,124	468
Milobar, Eldeen	102,762	4,776	-
Minato, Renato	61,552	19,673	64
Miranda, Vernon	157,145	8,093	3,672
Mita, Phil	126,642	10,030	2,061
Mitchell, Bill	87,840	9,619	2,243
Miyashita, Lotus	82,932	4,188	65
Moar, Kelvin	98,001	27,193	7,745
Mochula, Paul	73,518	6,371	-
Mojak, Darrel	84,886	19,510	1,404
Molesworth, Brent	74,688	18,950	450
Momen, Zahra	91,853	8,391	210
Monkman, Robin	68,478	6,854	1,238
Montgomery, Jesse	153,561	23,381	1,019
Mooney, Bob	110,518	7,403	1,464
Morash, Steve	86,604	4,582	332
Morberg, Joey	87,654	4,604	2,904
Morrison, Shanda	70,107	9,049	1,627
Mortazavi, Farshad	128,590	10,130	1,036
Morton, Gary	4,420	150,784	99
Moulder, Roy	179,769	14,199	1,292
Moulds, Steve	97,549	13,132	401
Mueckel, Trevor	88,331	5,959	3,365
Mui, Gary	127,886	11,864	636
Mulzet, Debbie	89,063	4,933	-
Mundi, Jasdip	89,277	15,106	538
Musana, Redgenald	126,326	10,064	910
Mushtuk, Jason	94,247	11,107	1,820
Mynott, Lydia	100,678	5,240	1,110
Nair, Trina	107,038	6,950	143
Najafi, Nima	100,294	5,922	1,058
Nakashima, Lynda	82,797	5,672	19
Navratil, Peter	259,622	33,263	1,658
Nawaz, Amer	129,706	10,091	935
Neale, Mike	81,240	19,218	4,271
Nees, Bronson	61,752	13,828	6,005
Nees, Roy	81,240	23,475	470
Nelms, Cheryl	258,737	33,759	361
Nelson, Tom	96,487	4,482	-
Nesci, Chris	129,509	11,099	-
Neuhaus, Stefan	87,865	27,658	1,182
Neumann, Healina	94,247	15,878	2,169
Neville, Glen	110,758	26,919	1,132
Newman, Tim	82,540	4,422	510
Ng, Candace	90,316	4,775	493
Ngan, Rita	83,149	6,427	143
Ngo, Vong	79,946	14,651	-
Nguyen, Jim	126,067	12,355	2,202

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Nguyen,Sandra	69,786	5,780	183
Nguyen,Steve	126,301	9,979	1,985
Nic Lochlainn,Ana	75,781	4,274	1,591
Nichol,Edward	92,245	5,397	654
Nichols,George	116,451	26,649	886
Nickel,Adam	66,026	13,807	1,392
Nicol,Robert	78,411	13,369	174
Nicolaichuk,John	68,667	13,187	773
Nicolls,Carol	98,242	5,186	-
Nieh,Rudolph	126,938	9,481	1,673
Nielsen,Tristan	89,738	27,346	4,085
Niewiero,Art	92,286	16,753	2,431
Nishimura,Ron	126,152	24,012	1,175
Nolan,Ken	69,808	11,906	198
Northam,Brian	76,302	13,036	224
Norton,Tyler	78,007	14,137	-
O'Connell,Meghan	72,265	3,750	415
O'Hanlon,Tommy	78,979	5,430	1,176
O'Hara,Judy	81,793	6,520	4,815
O'Neill,Bruce	115,310	10,669	-
O'Sullivan,Aine	69,526	6,618	5,240
Oberson,Graham	65,248	14,194	-
Obrknezev,Boris	126,445	13,097	1,158
Obwaha,Osvaldo	84,886	25,575	3,450
Odenbach,Duane	125,964	9,962	1,936
Ogilvie,Fergus	92,562	16,983	384
Okano,Pat	75,819	14,744	-
Okumura,Ben	77,945	13,238	-
Olafson,Shawn	77,667	7,871	470
Oljaca,Goran	197,624	16,668	1,384
Oljaca,Tamara	84,886	10,270	3,035
Onate,Cesar	126,152	10,040	1,491
Onyejekwe,Cindy	89,759	4,299	24
Orr,Darren	97,549	21,886	961
Otomo,Koji	91,506	6,142	1,140
Ozmen,Adam	78,458	23,148	371
Pachcinski,Marcin	153,478	12,283	763
Palmeri,Ben	91,218	16,621	86
Pandke,Eddie	77,281	6,931	2,405
Park,Mary	76,477	4,043	-
Parkinson,Scott	48,334	28,045	7,376
Parmar,Deepak	72,522	14,714	-
Parr,Talia	83,831	6,658	1,377
Patrick,Graeme	73,206	13,656	450
Pavan,Bruno	84,886	20,881	3,670
Pavitt,Kevin	85,872	30,188	2,446
Pawelec,Ania	104,040	8,077	2,104
Payne,Christine	73,348	4,729	104
Pearce,Tom	106,804	5,923	999
Pearson,Jeff	93,003	30,263	633
Pelech,Sharon	116,683	36,827	3,943

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Pellegrino,Briana	104,858	12,456	1,112
Pellow,Scott	141,611	11,240	490
Pendl,Sylvia	98,242	5,585	1,218
Perko,Veronika	70,854	5,450	78
Petersen,Doug	144,539	12,025	1,144
Petersen,Mik	87,654	15,549	1,387
Petrov,Ivo	72,892	50,625	2,981
Phan,Wayne	93,074	9,285	1,448
Phillips,Taylor	71,694	14,256	2,580
Piombini,Marino	141,272	11,239	671
Pitre,Marcel	165,160	11,974	1,601
Pitts,Lucas	173,433	30,757	4,580
Plagnol,Chris	178,978	14,427	1,074
Plavetic,Marie	69,043	12,574	981
Plotkin,Jeremy	116,725	9,262	533
Podikov,Emil	74,327	52,276	1,228
Polkinghorne,Andrew	77,188	17,536	976
Pon,Chuck	91,453	36,503	-
Pont,Andrea	65,801	9,341	-
Postulka,Michelle	114,549	21,110	823
Potter,Geoff	110,277	8,871	-
Potter,Leonard	90,037	43,642	1,812
Prazeres,Silvio	78,577	43,641	319
Preston,Kathy	150,026	12,054	808
Procopation,Matt	107,554	33,130	7,906
Ptak,Les	143,145	11,469	1,757
Puerta,Francisco	63,954	14,267	1,367
Purohit,Prashant	93,167	16,643	1,627
Purvis,Earl	70,431	7,935	1,424
Pyne,Karen	98,242	5,183	2,641
Qian,Mark	127,016	10,030	595
Quan,Roger	179,801	14,186	572
Rae,Kaylan	86,204	23,525	2,106
Raetek,Rane	111,201	9,202	3,401
Raincock,Grant	85,420	13,786	846
Rama,Nichole	71,133	4,718	3,177
Ramage,Andrew	87,080	35,349	1,228
Ramusovic,Naser	51,523	35,573	4,616
Randhawa,Jivan	94,247	11,507	1,184
Ranu,Jaswant	133,060	10,423	3,099
Ratajczak,Marek	133,837	7,623	1,910
Rear,Dean	259,130	35,135	2,527
Redmond,Eric	121,123	30,449	910
Redpath,Mike	198,451	15,566	8,075
Reichel,John	101,623	5,291	1,459
Reid,Ken	130,062	13,754	-
Reil,Dean	150,867	51,871	1,675
Reilly,Jason	87,080	47,071	319
Reitmayer,Niki	99,926	6,403	2,664
Rendall,Kirstie	105,198	17,118	925
Reniers,Paul	78,183	3,844	33

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SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Rennie,Erin	120,401	6,314	1,704
Reynolds,Conor	153,518	12,108	665
Reynolds,Rich	82,267	9,969	174
Ricci,Mary	110,800	8,784	1,251
Rich,Justin	142,046	16,587	2,494
Richards,Jordan	63,341	12,722	1,661
Richardsen,Ross	131,365	17,124	8,894
Richardson,Amanda	124,126	22,643	212
Richardson,John	91,177	7,059	543
Rikley,Kevin	88,424	8,421	1,199
Ritchie,Tanya	76,340	20,144	3,135
Ritzman,Shellee	121,696	8,514	702
Robb,Carrie	78,945	17,334	694
Robb,Ray	169,522	15,050	-
Roberge,Daniel	196,775	12,295	1,239
Roberge,Kevin	82,366	7,399	2,367
Roberts,Guy	126,152	9,984	990
Robinson,Ron	81,147	13,783	395
Rochon,Aaron	62,246	14,482	-
Rodrigues,Jason	76,382	7,945	464
Roetman,Derek	77,078	23,864	314
Rogan,Conor	70,888	14,244	2,428
Rogers,Trevor	83,034	7,613	85
Rollins,Leigh	123,658	9,690	2,460
Rose,Ian	78,839	21,758	1,088
Ross,Dawn	94,247	6,231	2,664
Ross,Kathleen	64,162	11,211	211
Roth,Bob	83,386	13,110	386
Roth,Mike	127,907	21,335	474
Rotin,Jeff	79,790	4,219	216
Roud,John	81,240	25,253	470
Rowan,Ann	153,216	9,613	-
Ruf,Mark	73,302	5,063	422
Rutherford,Susan	164,318	13,007	3,662
Ryznar,Gord	64,943	12,844	789
Sabatini,Linda	153,216	15,265	3,355
Sadleir,Tom	139,637	10,902	-
Safaei,Sahar	74,058	2,808	393
Sahota,Sabrina	76,920	6,419	-
Sakata,Trina	79,769	4,224	223
Sami,Yeera	75,004	2,302	-
Samis,Kim	9,804	128,522	-
Sandhu,Harman	82,892	6,458	138
Sandhu,Kash	86,816	41,913	1,047
Sandhu,Shubhneet	102,443	7,146	131
Sandhu,Sukie	98,088	17,685	3,625
Sandhu,Tanisha	98,136	11,821	-
Sanghera,Randhir	118,521	7,329	134
Sanii,Sanam	103,625	21,064	1,159
Sarafinchan,Denise	70,779	13,448	597
Saraswat,Arvind	123,082	9,225	641

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Sardashti, Mona	86,729	4,561	62
Sass, Joe	193,315	13,532	2,117
Sato, Melody	79,769	16,512	475
Saunders, Bill	90,938	25,692	3,026
Saunders, Dan	94,416	26,652	-
Savage, Laen	82,501	42,992	1,448
Sawyer, Paul	196,775	12,919	1,642
Saxton, Julie	113,376	7,807	1,012
Scalena, Sabrina	135,631	8,470	-
Schaffrick, Steven	154,171	12,427	492
Schatz, Alison	101,937	6,580	700
Schiedel, Brent	91,511	16,237	1,711
Schmidt, Daniel	63,114	24,782	81
Schmidt, Rob	88,042	6,701	242
Schmidt, Travis	90,283	28,985	3,892
Schoemaker, Heather	230,650	33,989	1,510
Schoner, Bronwyn	83,149	4,442	101
Schroeder, Mike	72,536	11,877	433
Sciarretta, Paolo	81,065	37,726	1,404
Scofield, Trevor	94,247	9,636	815
Scott, Cory	77,318	38,250	896
Scott, Peter	68,049	8,907	676
Searle, Mike	153,003	11,988	688
Sebastian, Allen	112,594	9,309	1,226
Seinen, Mark	116,114	7,559	56
Sequeira, Roy	98,351	27,550	780
Serban, Florin	119,139	10,005	2,945
Sever, Charley	92,629	11,102	234
Sever, Steve	92,703	17,794	348
Sevold, Jeff	97,037	8,777	1,615
Shah, Mihir	77,314	18,722	5,852
Shaheem, Zahid	113,657	82,827	672
Shahnia, Shahriar	87,797	39,501	1,142
Shakibaei, Simon	87,872	4,349	5,566
Shakimova, Olga	86,604	5,391	802
Sham, Christopher	79,788	55,695	1,630
Shantz, Kevin	85,306	4,470	-
Shariff, Khaled	162,975	12,829	3,163
Sharma, Aby	137,403	10,720	1,077
Sharma, Rohit	76,382	31,261	1,147
Shaw, Anthony	132,928	51,844	2,430
Shea, Ian	87,865	39,105	4,465
Shears, Carolyn	119,170	13,808	1,598
Shears, Paul	126,152	9,987	940
Sheffield, David	106,933	5,291	974
Shen, Stanley	131,226	10,177	1,863
Shepherd, Teresa	97,147	6,816	30
Sherwood, Tyler	72,967	19,053	1,451
Shi, Melanie	94,294	5,518	1,746
Shibata, Kelly	129,366	11,015	743
Shipalesky, Kevin	83,149	7,117	1,056

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Shirazi-Zand,Shervin	123,859	9,709	1,393
Shishido,Craig	86,604	4,579	1,099
Shoji,Bryan	197,414	15,847	1,176
Shurety,Gillian	79,769	4,260	299
Sidhu,Parul	74,008	4,745	1,167
Sidi,Shelina	126,152	9,982	827
Siegrist,Bill	76,362	17,814	2,090
Siemens,Cory	79,393	16,095	504
Silivestru,Lucia	85,410	4,490	68
Silva,John	92,222	12,930	453
Silva,Natasha	94,247	5,024	1,463
Simon,Silvio	88,252	13,132	1,606
Simpson,Tammy	76,427	4,041	152
Sing,Carmen	72,086	5,046	429
Sing,Jim	128,636	10,072	1,163
Singh,Inder	178,978	33,138	1,110
Singh,Kabeer	93,003	15,280	6,298
Singh,Michael	77,642	8,869	222
Sipka,Dragan	97,792	5,094	237
Siu,Sylvania	83,149	10,040	310
Sivarajah,Dayan	102,515	32,119	-
Skilling,Bennett	84,685	17,745	4,883
Slater,Emma	119,859	27,894	2,275
Smandych,Cory	94,247	11,404	-
Smith,Brendon	85,062	7,376	973
Smith,Dennis	74,510	8,677	494
Smith,Greg	224,832	31,911	464
Smith,Joe	128,769	10,189	2,028
Smith,Luke	79,861	5,569	829
Smith,Patrick	96,358	15,212	3,522
Smyth,Sean	150,182	16,629	642
Snyder,Greg	79,769	5,116	174
So,Mandy	76,427	4,041	-
Sobering,Craig	106,933	5,653	679
Soluri,Joe	81,562	11,727	3,359
Somasunderam,Lani	122,397	19,382	1,108
Soo,Gary	148,783	23,245	2,325
Soper,Jay	98,242	5,743	139
Sorgiovanni,Roberto	89,937	18,590	650
Sourisseau,Paul	141,171	11,098	-
Sowlati,Taban	131,847	10,211	3,076
Spillner,Patrick	116,318	18,416	1,561
Squire,Chris	126,152	10,083	450
Stajduhar,Neil	121,005	57,742	1,238
Statham,Mike	78,858	18,165	865
Steele,Brett	92,714	24,236	3,297
Steiner,Louise	107,163	5,624	231
Steunenberg,Hein	165,519	12,080	928
Stich,Sarah	71,769	4,462	869
Stiver,James	153,744	12,128	643
Stock,Kevin	98,242	7,247	-

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Stone, Spencer	66,643	20,751	319
Storry, Karen	134,657	10,422	2,846
Stracke, Ron	95,399	5,232	201
Stradling, Barry	89,453	31,515	850
Strang, Moira	129,589	11,010	752
Stuart, Scott	116,318	19,939	479
Stuetz, Tania	74,364	13,025	2,922
Suleiman, Ben	141,611	10,375	2,303
Summers, Tarynne	194,516	15,462	7,906
Sun, Sunny	121,452	9,522	3,095
Sun, Thomas	126,152	9,987	6,608
Sutton, Al	65,110	11,761	1,783
Svenhard, Clay	82,040	18,327	5,886
Swanlund, Glenn	126,277	10,309	1,772
Swanston, Jennifer	73,745	1,895	447
Sziklai, Riley	94,278	8,831	188
Tack, Ed	85,397	51,619	1,677
Tai, Damon	83,190	11,112	173
Tai, Vicky	72,249	8,665	1,146
Tam, David	126,644	9,961	1,030
Tam, Flannan	126,152	10,521	1,566
Tam, Kenny	86,604	4,579	326
Tan, Diondi	76,300	3,975	143
Tancon, Dan	129,443	11,799	143
Tandan, Sukhdev	69,324	13,684	5,163
Tang, Ivan	107,100	14,102	24
Tang, Vaillant	126,067	9,950	1,312
Taponat, Marie	128,371	10,045	1,180
Tardiff, Cory	87,848	19,753	771
Tarves, Juanito	65,879	9,707	1,765
Taverner, Andrew	116,737	52,626	1,446
Tawfik, Nermine	117,840	10,939	-
Taylor, Alex	92,517	11,594	1,209
Taylor, Laura	93,938	4,931	441
Tecson, Yvette	110,800	8,800	3,156
Teo, Dennis	126,437	29,151	2,779
Teo, Kim	92,782	16,144	295
Teo, Roy	79,769	4,738	1,369
Terry, Mike	63,029	20,376	57
Thai, Amy	86,536	5,886	754
Thakar, Rina	179,212	15,426	5,057
Thiara, Manjit	69,254	5,788	2,102
Thibodeau, Mathieu	80,500	9,501	-
Thien, Shaw	142,515	11,250	922
Thind, Sanveer	76,775	2,476	594
Thompson, Peter	87,336	16,492	502
Thompson, Steve	97,549	7,566	-
Thomson, Brent	77,539	19,203	-
Thontepu, Sri Kalyan	101,006	6,859	1,470
Thorlacius, Bui	79,496	10,617	1,220
Thorpe, Michael	90,548	57,197	1,261

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

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(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Threadkell,Keith	126,152	9,920	854
Threlfall,Miranda	85,102	10,086	353
Ticehurst,Daniel	73,349	3,879	-
Tijman,Brendon	73,634	9,174	4,621
Tilley,Nikki	71,789	4,134	2,625
Tilton,Mike	76,570	13,113	1,451
Ting,Cheryl	94,263	5,412	594
Tipay,Rhonnell	77,078	36,313	550
Titaro,Brian	77,839	4,649	1,868
Tomborello,Gretchen	93,511	5,089	1,439
Tong,Joshua	87,654	6,574	67
Toppings,Tyson	87,598	14,119	833
Torres,Matthew	78,025	5,496	552
Towill,Marilyn	243,194	33,412	1,050
Trainor,Maureen	107,341	8,574	-
Tran,Angela	76,427	4,106	351
Tran,Nang	89,453	14,689	1,181
Trang,Paul	96,585	5,416	365
Tremolada,Anthony	69,177	11,497	8,669
Trommeshausen,Uwe	63,029	14,135	57
Tsang,John	79,222	11,867	221
Tsao,Patrick	72,335	3,759	2,120
Tseng,Kimmy	72,813	8,748	3,203
Tsundu,Nyima	126,152	9,993	1,827
Tulett,Rod	81,923	15,664	3
Tully,Karen	133,004	10,305	1,152
Tymm,Ingrid	90,316	4,775	820
Unger,Horst	126,152	7,537	1,613
Uy,Rodge	92,330	4,779	143
Vala,Jamie	154,036	12,186	931
Valou,Greg	85,172	5,378	20
Van Akker,Anne	118,781	19,678	109
Van De Keere,Derek	76,149	7,305	1,289
Van den Boogaard,John	84,825	13,755	524
Van den Boogaard,Josh	94,576	30,981	2,095
Van Oord,Ron	141,623	29,156	249
Vanderwal,Steve	76,782	57,667	1,267
Vang,Touchue	73,479	59,190	1,130
Vargas,Sandy	70,842	5,594	-
Vas,Ernie	106,933	13,113	-
Vasquez,Edward	147,680	14,926	-
Veal,Stuart	80,270	33,243	754
Veenstra,Ted	116,318	13,133	1,616
Velazquez,Adriana	108,446	8,567	2,566
Verbeke,Trevor	129,800	11,186	723
Vidler,Lynne	138,562	10,728	1,508
Vike,Stephen	92,703	17,213	3,647
Visser,Richard	83,149	13,408	-
Vujicic,Bojan	78,397	4,043	2,246
Vukicevic,Biljana	119,982	9,082	1,596
Vukicevic,Sinisa	144,063	11,700	-

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Vulama,Danica	81,183	39,448	2,070
Wagenaar,Jim	76,936	10,850	562
Wai,Yvonne	126,152	10,116	991
Wakelin,Darrell	103,603	7,559	597
Walkley,Simon	76,430	8,571	382
Wallis,Richard	117,251	22,283	347
Walsh,Dane	95,643	23,396	1,793
Walsh,Heidi	181,541	18,380	1,088
Wan,Curtis	109,037	7,470	2,005
Wang,Kitty	73,348	3,879	-
Wang,Paul	97,051	20,132	1,325
Warden,Chad	98,242	18,376	105
Warren,Jason	129,115	10,316	968
Watson,Ron	76,370	17,497	675
Watt,Jason	82,488	7,820	714
Watt,Matt	86,554	27,477	3,078
We,William	76,861	4,218	2,187
Wears,Nicole	145,063	13,225	1,947
Webb,Nolan	83,527	24,354	1,546
Webber,Nate	116,131	9,098	2,321
Weber-Concannon,Isabelle	75,924	5,989	1,453
Webster,Andrew	89,453	2,823	-
Wee,Daniel	141,879	11,208	1,043
Weiss,Amy	86,403	3,128	3,183
Weissgerber,Ulryke	128,661	11,200	831
Welgan,Kristen	94,247	5,377	65
Wellman,Mark	132,996	10,401	1,087
Wellman,Sarah	141,611	11,190	1,702
Wells,Jay	76,382	28,110	627
Wells,Mike	90,198	18,156	890
Wenger,Randy	178,978	15,063	1,555
Werger,Daniel	101,253	4,964	-
Westhora,Gary	87,690	7,975	575
Wheeler,Judith	76,646	17,659	889
White,Amelia	75,552	4,812	1,256
Whyte,Nicholas	80,680	36,871	5,404
Williams,Brett	89,285	15,685	380
Williams,Callan	75,250	6,128	2,085
Williams,Owen	87,227	6,576	1,130
Williamson,Ian	83,709	4,802	49
Wilson,Conor	56,939	24,307	120
Wilson,Robin	76,489	4,954	39
Wilting,Paul	75,553	6,080	450
Wong Hen,Tony	98,899	10,486	395
Wong,Alan	87,227	6,543	2,530
Wong,Ben	129,863	10,257	626
Wong,Cori	124,652	9,727	7,622
Wong,David	94,635	5,487	673
Wong,Felice	74,848	4,688	1,480
Wong,Jacky	126,152	9,982	1,098
Wong,Jason	92,775	8,988	634

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES

For the year ended December 31, 2021

Employees

Name	Base Salary Payments (1)	Taxable Benefits and Other (2)	Expenses (3)
Wong,Michael	104,831	9,720	1,860
Wong,Michelle	91,853	7,140	1,121
Wong,Teddy	76,427	4,041	-
Wong,Tom	74,288	5,413	883
Woo,Chris	130,459	10,210	737
Wood,Bonnie	73,235	4,395	1,920
Worcester,Robyn	97,858	5,169	3,927
Wright,Geoffrey	69,687	6,438	1,044
Wu,Claudia	126,819	10,007	2,538
Wu,Ringo	92,954	25,530	2,163
Wu,Thomas	132,847	10,306	1,030
Xiao,Wen	128,109	10,040	967
Xiong,Lee	89,090	43,958	484
Xu,Diana	76,427	4,458	33
Yager,Brent	90,272	18,411	1,718
Yager,Elvina	75,830	3,950	-
Yamada-Bagg,Garrett	52,024	27,309	5,068
Yang,Andy	84,020	6,933	712
Yang,Daniel	123,733	7,440	2,599
Yap,Anthony	101,736	13,607	3,150
Yasin,Amina	100,175	4,235	1,027
Yazdanpanah,Helia	125,472	9,873	1,462
Yeung,Eugene	117,448	37,752	2,077
Yeung,Wendy	94,247	10,450	1,111
Yik,Susanna	81,437	4,968	81
Young,Brett	196,775	13,073	1,010
Young,Jeff	93,003	27,255	1,764
Young,Sandy	75,165	2,188	537
Yu,Brian	82,895	4,960	2,417
Yu,Percy	126,422	9,997	1,085
Zakipour,Negar	77,433	21,933	2,612
Zaremba,Lillian	146,604	11,452	2,193
Zavislak,Sean	68,536	13,053	-
Zemcov,Clare	68,532	8,018	391
Zhang,Patrick	74,455	5,948	1,663
Zhao,Wei	96,414	5,417	130
Zheng,Dana	136,115	12,633	2,421
Zibin,Nicholas	106,552	9,315	1,813
Zimka,Colin	77,126	44,974	1,129
Zimmer,Glen	90,316	11,291	303
Zordan,Lena	97,834	6,804	-
	\$ 132,549,848	\$ 19,291,407	1,808,920
Total for employees with remuneration and expenses of \$75,000 or less	29,964,092	3,671,645	543,964
	\$ 162,513,940	\$ 22,963,052	2,352,884

(1) Employees are paid bi-weekly, resulting in 26 pay cheques.

(2) Consists of benefits (ie. MSP, dental, health) and one-time payments (ie. banked vacation and retroactive settlements).

(3) Includes business related expenses for training, travel, mileage and memberships.

SCHEDULE OF REMUNERATION AND EXPENSES
For the year ended December 31, 2021
Reconciliation of Remuneration to Financial Statements

Total Remuneration - Schedule of Remuneration and Expenses:

Employees (per Schedule 2)	
Base Salary	\$ 162,513,940
Taxable Benefits and Other	22,963,052
Members of the Board of Directors and Elected Officials (per Schedule 1)	1,370,509
	<u>\$ 186,847,501</u>

Total Salaries and Benefits per Consolidated Financial Statements:
(Financial Statement Note 17 - Segmented information)

\$ 208,107,340

Items included in Financial Statements but not in Schedules 1 and 2:

Employer paid corporate benefits	(39,767,097)
2021 salaries and benefit accruals	(36,801,312)
Amounts paid for temporary services	(758,123)

Items included in Schedules 1 and 2 but not in the Financial Statements:

Salaries and benefits capitalized and included in tangible capital assets (Financial Statement Note 17 - Segmented information)	16,220,626
2020 salaries and benefits accruals	39,846,066

\$ 186,847,501

*** For financial statement purposes, accrued employee wages and benefits are included in the financial statements, but are not reflected in remuneration paid to employees.

SCHEDULE OF REMUNERATION AND EXPENSES
For the year ended December 31, 2021
Statement of Severance Agreements

There was one severance agreement under which payments commenced between the Metro Vancouver Regional District and its non-unionized employees during fiscal year 2021.

This agreement represents 14 months of compensation.

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
0946235 BC LTD	\$ 224,826
1006983 BC LTD	27,698
1074765 BC LTD INC	48,195
3DS - THREE DIMENSIONAL SERVICES INC	101,394
3R DEMOLITION CORP	37,299
4REFUEL CANADA LP	70,286
669251 ALBERTA LTD	392,858
A. LANFRANCO & ASSOCIATES	182,068
A.B.E. LOGGING LTD	311,725
A.R. HYTECH ENGINEERING LTD	1,329,241
A.R.THOMSON GROUP	262,252
A.W.FIREGUARD (1991) LTD	40,440
ABB INC	868,043
ABBA PARTS & SERVICE	102,856
ABSOLUTE CONCRETE REPAIR & INJECTION	118,339
ABV CONSULTANTS LTD	596,170
ACADIAN METALS & FASTENERS LTD	94,023
ACCESS INFORMATION MANAGEMENT OF CANADA ULC	66,728
ACCESS WELDING & COATING INSPECTIONS LTD	75,820
ACCIONA WASTEWATER SOLUTIONS LP	630,525
ACCURATE CEDAR LTD	180,579
ACE TANK SERVICES INC	54,417
ACKLANDS - GRAINGER INC	262,571
ACL GROUP ENTERPRISES LTD	49,991
ACTION GLASS LTD	68,796
ACTIVE PIPE WELDING INC	128,814
ACUREN GROUP INC	1,317,530
ADS ENVIRONMENTAL	451,755
ADVANCED SUBSEA SERVICES LTD	37,340
AE CONCRETE PRODUCTS INC	57,604
AECOM CANADA LTD	18,915,574
AGAT LABORATORIES LTD	37,933
AGILENT TECHNOLOGIES CANADA INC	98,722
AGILITY PR SOLUTIONS CANADA LTD	28,920
AKASH INDUSTRIES	374,602
ALEXANDER HOLBURN BEAUDIN & LANG	163,845
ALFA LAVAL INC	225,655
ALL ROADS CONSTRUCTION LTD	136,448
ALL ROUND HOME IMPROVEMENTS AND	1,046,352
ALL SEASONS DEVELOPMENT LTD	366,649
ALL-PRO SERVICES LTD	39,523
ALMA PLUMBING & HEATING LTD	927,374
ALS ENVIRONMENTAL	192,645
ALTISHR	135,150
ALUMASAFWAY, INC	49,018
AMAZON	184,533
AMERESCO CANADA INC	42,057
AMES METAL FABRICATORS LTD	73,721
AMRE SUPPLY COMPANY LIMITED	212,330
AMTG CONSULTING LTD	293,115
ANDREW SHERET LTD	26,498
ANGUS ONE LTD	69,408
ANGUSFILM PRODUCTION SERVICES	154,932

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
ANNACIS WASTE DISPOSAL CORP	1,142,182
ANNEX CONSULTING GROUP INC	526,595
APG-NEUROS INC	81,244
APOLLO SHEET METAL LTD	28,572
APPLE COMPUTER	386,437
APPLEONE SERVICES LIMITED	181,950
APPLIED ELECTRONICS LIMITED	50,904
AQUA LIBRA CONSULTING LTD	75,564
AQUA VAC SEWER & DRAIN LTD	87,945
AQUACOUSTIC REMOTE TECHNOLOGIES INC	253,642
AQUATIC INFORMATICS INC	30,542
AQUENT INC	34,629
ARBOR PRO TREE SERVICES LTD	65,504
ARCOSE CONSULTING LTD	156,141
AROUND THE BEND MEDIA SERVICES LTD	58,344
ARROW EQUIPMENT LTD	46,831
ARROW SPEED CONTROLS LTD	188,594
ARROW TRANSPORTATION SYSTEMS INC	17,303,673
ARTECH ELECTRIC LTD	46,086
ASPLUNDH CANADA INC	26,132
ASQ BUILDING	213,756
ASSERTIVE EXCAVATING AND DEMOLITION LTD	246,404
ASSET INSIGHT MANAGEMENT LTD	213,129
ASSOCIATED ENGINEERING (B.C.) LIMITED	3,068,790
ASSOCIATED LOCKSMITHS	54,360
ASTROGRAPHIC INDUSTRIES LTD	43,024
ATLAS COPCO COMPRESSORS CANADA	91,232
AUSENCO ENGINEERING CANADA INC	723,933
AUTOMOTIVE RESOURCES INTERNATIONAL	1,451,609
AVANT GUARD GATES AND ACCESS CONTROLS	30,889
AVENSYS SOLUTIONS INC	130,295
AVENUE MACHINERY CORP.	141,205
AWAREBASE CORP	102,113
AWC PROCESS SOLUTIONS LTD	248,970
B.A. BLACKTOP LTD	36,920
B.A. BLACKWELL & ASSOCIATES	45,335
B.C. COMMUNICATIONS INC	36,556
B.C. CONVEYING MACHINERY LTD	375,957
B.C. RENTALS	34,841
B.C.D. HOLDINGS LTD	101,305
BADGER DAYLIGHTING LIMITED PARTNERSHIP	86,434
BANK OF MONTREAL	65,913
BANTER GRACE & LOLLIPOP INC	52,605
BARNESCRAIG & ASSOCIATES	26,068
BBA ENGINEERING LTD	229,830
BC COMMUNICATIONS INC	88,610
BC CONSERVATION FOUNDATION	79,156
BC HYDRO AND POWER AUTHORITY	16,737,846
BC MUNICIPAL SAFETY ASSOCIATES	45,631
BDO CANADA LLP	135,555
BEACON HR INC	71,544
BEAVER ELECTRICAL MACHINERY LTD	218,870
BEEDIE FRASER MILLS LP	986,542

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
BEL CONTRACTING A DIV. OF Belpacific	1,750,422
BENNETT JONES LLP	702,365
BENNETT MECHANICAL INSTALLATIONS (2001) LTD	4,234,070
BEST BUY	35,231
BESTWAY FLOORING LTD	117,244
BESTWEST ROOFING INC	77,307
BGC ENGINEERING INC	88,704
BGE INDOOR AIR QUALITY	97,848
BIOAIR SOLUTIONS, LLC	443,003
BIOREM TECHNOLOGIES INC	58,800
BKL CONSULTANTS LTD	75,358
BLACK AND VEATCH CANADA COMPANY	56,802
BLACKRIDGE SOLUTIONS INC	483,586
BLAIR LAW GROUP	194,427
BLAKE CASSELS & GRAYDON LLP	152,460
BLUE MAX DRILLING INC	123,991
BLUECON DESIGN & CONSTRUCTION LTD	411,830
BNAC ENVIRONMENTAL SOLUTIONS	64,710
BOILEAU ELECTRIC & POLE LINE LTD	90,195
BOLAIR DISTRIBUTION INC DBA BOLAIR FLUID HANDLING SYSTEMS	27,602
BOLOGNESE JR EXCAVATION	61,919
BOWRIO WATER TECHNOLOGIES INC	27,681
BRANDSAFWAY GROUP	64,600
BRENNTAG CANADA INC	4,194,259
BRITCO BOXX LP	67,005
BROWN AND CALDWELL CONSULTANTS CANADA	6,041,812
BROWN AND OAKES ARCHAEOLOGY	33,495
BUNT & ASSOCIATES ENGINEERING LTD	27,290
BUREAU VERITAS CANADA (2019) INC	227,745
BURNABY CITY OF	421,317
BUSINESS COUNCIL OF B.C.	43,995
BUSY-BEE SANITARY SUPPLIES	27,260
C.E.S. ENGINEERING LTD	53,529
C.G. INDUSTRIAL SPECIALTIES LTD	100,818
CAC INDUSTRIAL	170,103
CACHE CREEK VILLAGE OF	132,032
CAMELCASE DATA	40,013
CAMFIL FARR	72,542
CANADA POST	48,971
CANADA SPRING	31,374
CANADIAN DEWATERING LTD	1,170,797
CANADIAN NATIONAL RAILWAYS	647,760
CANADIAN PACIFIC RAILWAY	134,280
CANADIAN TIRE	67,036
CANADIAN TURNER CONSTRUCTION CO. LTD	287,560
CANALYTICAL INSTRUMENTATION SERVICES INC	55,440
CANCO CRANES & EQUIPMENT LTD	67,581
CAN-DIVE CONSTRUCTION LTD	130,499
CANFORCE PEST CONTROL	36,336
CANNEPP	27,734
CANOE PROCUREMENT OF CANADA	72,298
CANSTAR RESTORATIONS LP	252,331
CANWEST CONCRETE CUTTING BC CORP	83,969

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

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Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
CARMICHAEL ENGINEERING LTD	69,881
CARTERTRAX	45,836
CASELS BROCK	1,303,500
CATALYST COMMUNITY DEVELOPMENTS SOCIETY	28,650
CB PROCESS INSTRUMENTATION & CONTROLS	102,380
CCI COMBUSTION CONTROL INC	47,897
CD NOVA	125,835
CDM SMITH INC	7,250,389
CDW CANADA CORP	259,913
CENTRIX CONTROL SOLUTIONS	196,224
CESCO ELECTRICAL SUPPLY LTD	38,329
CGS GRIPSTRIP PRODUCTS LTD	28,490
CH2M HILL CANADA LIMITED	28,293,675
CHAMCO INDUSTRIES LTD	92,027
CHAMPION WINDOW & PRESSURE CLEANING	109,545
CHARGED INSTALL SERVICES	31,333
CHARTER TELECOM INC	72,963
CHEMTRADE CHEMICALS CANADA LTD	739,415
CINTAS CANADA LTD	132,955
CITY ELECTRIC SUPPLY	85,321
CIVIC LEGAL LLP	202,677
CIVIL SPACE ENGAGEMENT INC	30,352
CLARK BUILDERS	18,190,980
CLEARTECH INDUSTRIES INC	138,262
CLEARWAY CONSTRUCTION INC	1,542,850
CLOVERDALE FUEL LTD	32,899
COASTAL PACIFIC LANDSCAPING LTD	210,740
COLLIERS PROJECT LEADERS INC	2,570,890
COLUMBIA VALVE & FITTING, A DIVISION OF SAFST	71,291
COMCOR ENVIRONMENTAL LIMITED	259,498
COMMANDER WAREHOUSE EQUIPMENT LTD	30,059
COMMISSIONAIRES BC	672,345
COMPLETE SECURITY INSTALLS	51,817
CONCORD EXCAVATING & CONTRACTING LTD	523,356
CONCORD PARKING LTD	104,700
CONNEXUS INDUSTRIES INC	186,782
CONTEMPORARY OFFICE INTERIORS LTD	68,374
COOL AIR RENTALS LTD	31,773
COOL FLOW MECHANICAL REFRIGERATION HVAC LTD	98,801
COOPER EQUIPMENT RENTALS	76,341
COQUITLAM CITY OF	281,126
CORA HALLSWORTH	31,197
CORDILLERAN GEOSCIENCE	28,326
CORIOLIS CONSULTING CORP	88,288
CORPORATE COURIERS LTD	195,619
CORPORATE EXPRESS	116,933
CORROSION SERVICE COMPANY LTD	181,194
COVANTA BURNABY RENEWABLE ENERGY INC	13,983,691
CRANEIUM INC	270,995
CREATIVE DOOR SERVICES LTD	43,721
CRESNA ENERGY	37,564
CROSTOWN METAL INDUSTRIES LTD	128,980
CROWE EVAN	78,328

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

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Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
CROWN CONTRACTING LIMITED	78,934
CULLEN DIESEL POWER	5,524,013
CUMMINS CANADA ULC	156,572
CUSTOM AIR CONDITIONING LTD	192,882
CUSTOM BLACKTOP CO	317,662
CWA ENGINEERS INC	287,080
CWPC PROPERTY CONSULTANTS LTD	31,781
CYCLONE DIAMOND PRODUCTS LTD	26,897
D & B AUGER SERVICES	49,140
D.C. ROBBINS & ASSOCIATES INC	62,580
DARYL-EVANS MECHANICAL LTD	120,945
DAVE CLANCY	120,153
DAVEY TREE EXPERT CO. OF CANADA LIMITED	50,171
DAVID HENDERSON PRODUCTION & POST	41,256
DECENT PAINTING & DECORATING LTD	505,115
DEEPAK MANAGEMENT LTD	606,988
DEFIANCE EQUIPMENT LTD	227,108
DELL CANADA	856,274
DELOITTE & TOUCHE LLP	63,194
DELOITTE LLP	130,599
DELPRO AUTOMATION INC	193,766
DELTA CITY OF	3,729,104
DELTA AIRPARK OPERATING COMMITTEE	63,773
DELTA IRRIGATION PRODUCTS LTD	31,902
DELTA SCIENTIFIC	37,060
DEXTERRA INTEGRATED FACILITIES MANAGEMENT DBA 10647802 CANADA LIMITED	39,982
DGI SUPPLY	121,428
DHI Water & Environment	826,555
DIAMOND HEAD CONSULTING LTD	291,154
DIGI KEY CORPORATION	25,947
DIGITAL LIGHT PRODUCTIONS	41,765
DILLON CONSULTING LTD	163,481
DIRECT EQUIPMENT WEST LTD	234,748
DLA PIPER (CANADA) LLP	52,069
DM FOURCHALK PROPERTY CONSULTANTS INC	56,280
DOBNEY FOUNDRY LTD	181,800
DODD CAITLIN	27,640
DON'S FLYER SERVICE	44,295
DOUBLE M EXCAVATING LTD	102,077
DOUGLAS LAKE EQUIPMENT LTD	70,701
DOW AND ASSOCIATES	31,369
DRAGON VENTURES LTD	158,129
DRAKE EXCAVATING LTD	221,956
DREAM WIZARDS EVENTS LTD	84,000
DRIVING FORCE INC	382,195
DRIVING UNLIMITED	36,015
DSA MEDIA	920,126
DYNAMIC EQUIPMENT RENTALS LTD	37,784
E. LEES & ASSOCIATES CONSULTING LTD	48,639
E.B. HORSMAN & SON LTD	368,397
EAGLE WEST CRANE & RIGGING	104,236
EARNSCLIFFE STRATEGY GROUP	39,530
EARTH VAC ENVIRONMENTAL LTD	181,371

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

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Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
EBB ENVIRONMENTAL CONSULTING INC	51,884
EBSCO CANADA LTD	36,459
ECHO ECOLOGICAL ENTERPRISES	63,577
ECO-COUNTER	30,266
ECOFISH RESEARCH LTD	134,396
ECOLOGIC CONSULTANTS LTD	25,065
E-COMM EMERGENCY COMMUNICATIONS	4,377,458
ECOPLAN INTERNATIONAL INC	47,007
EECOL ELECTRIC INC	306,023
EHAN ENGINEERING LTD	25,121
ELEMENT PLUMBING LTD	54,653
ELEMENTAL ARCHITECTURE AND INTERIORS INC	230,406
ELEVATE SEARCH GROUP	75,621
EMCO CORPORATION	65,988
EMIN'S RENOVATION LTD	544,012
EMNET LLC	124,293
EMTERRA ENVIRONMENTAL	19,773,219
ENERMAX MOUNTAIN MANUFACTURING LTD	374,788
ENGAGING MINDS CONSULTING LTD	32,016
ENGINEERED PUMP SYSTEMS LTD	37,359
ENKON ENVIRONMENTAL LTD	811,307
ENVENT ENGINEERING LTD	28,280
ENVIRO-VAC	50,158
ENVIROWEST CONSULTANTS INC	33,449
ERNST & YOUNG LLP	42,296
ESOLUTIONSGROUP LIMITED	34,650
ESRI CANADA LIMITED	162,366
EST ENVIRONMENTAL TECHNOLOGIES LTD	42,420
EUREST DINING SERVICES	39,164
EUTEK SYSTEMS INC DBA HYDRO INTERNATIONAL WASTEWATER INC	116,115
EVOQUA WATER TECHNOLOGIES LTD	49,122
EXACT FACILITY SERVICES	115,350
EXCEL DRAPERY INSTALLATIONS LTD	101,172
EXCEL SCAFFOLD SOLUTIONS LTD	240,942
EXECUTIVE LOCK & SAFE LTD	27,455
EXP SERVICES INC	80,935
FABCO PLASTICS WESTERN (B.C.) LIMITED	58,111
FACEBOOK	60,660
FALCON EQUIPMENT LTD	34,921
FASTENAL COMPANY	81,613
FASTSIGNS	111,864
FILTERPRO SERVICES CANADA LTD	46,109
FINA ELECTRIC SERVICES GROUP LTD	614,641
FINNING INTERNATIONAL INC	1,534,711
FISHER SCIENTIFIC	175,598
FLEETWOOD DISPOSAL LTD	76,341
FLEISHMANHILLARD HIGHROAD CORP	75,779
FLEXTech INDUSTRIES INC	49,514
FLOCOR INC	475,599
FOODMESH DBA MESH EXCHANGE INC	35,875
FORT MODULAR INC	317,911
FORTHRIGHT SOLUTIONS INC	82,282
FORTISBC ENERGY INC	881,260

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

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Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
FOX, JACK	60,396
FOXFAB POWER SOLUTIONS INC	27,969
FRASER BURRARD DIVING LTD	246,168
FRASER RIVER PILE & DREDGE LTD	57,058
FRASER VALLEY EQUIPMENT LTD	32,567
FRISCH ENTERPRISES LTD DBA ELLEN FRISCH & ASSOCIATES	35,061
FUDGE ZAC	48,024
FUELEX ENERGY LTD	29,937
FULFORD HARBOUR CONSULTING LTD DBA FULFORD CERTIFICATION	71,985
FULL MOON RENTALS LTD	28,581
G & R SINGH & SON TRUCKING LTD	38,516
G M BALLARD AND ASSOCIATES LTD	90,398
GARTNER INC	114,975
GASTALDO CELL-CRETE LTD	121,795
GEOADVICE ENGINEERING INC	54,138
GEORGE BUBAS MOTORS LTD	39,686
GEORGE THIRD & SON (A DIVISION OF TRAPP AVENUE INDUSTRIES LTD)	43,925
GEORS RENOVATION LTD	65,432
GEOTRAC SYSTEMS INC	161,195
GFL ENVIRONMENTAL INC	2,876,030
GHD LIMITED	298,761
GLEN THOMPSON INDUSTRIES LTD	155,632
GLOBAL CONTAINER CORPORATION	31,420
GLOBAL INDUSTRIAL CANADA	27,543
GLOBE FACILITIES SERVICES LTD	97,678
GM BLUEPLAN ENGINEERING LIMITED	141,567
GOLDEN GLOBE CONSTRUCTION LTD	2,340,242
GOLDER ASSOCIATES LTD	966,658
GOODBYE GRAFFITI	31,549
GRAHAM INFRASTRUCTURE LP/ AECOM WATER	69,738,530
GREAT WEST EQUIPMENT	28,531
GREEN LINE HOSE & FITTINGS (BC) LTD	39,725
GREGG DISTRIBUTORS	103,100
GUILLEVIN INTERNATIONAL CO.	80,545
GWR CONTRACTING INC	101,930
HACH SALES & SERVICE CANADA LTD	45,886
HANDY APPLIANCES LTD	293,564
HARRIS & COMPANY	96,662
HARRIS REBAR	50,887
HATCH CORPORATION	4,104,324
HATFIELD CONSULTANTS PARTNERSHIP	486,968
HAYDEN CONSULTING SERVICES	27,195
HAYWARD GORDON ULC	30,376
HAYWARD TYLER INC	47,467
HAZMASTERS INC	77,311
HDR CORPORATION	52,588
HEADWATER MANAGEMENT LTD	199,462
HENRY FOUNDATION DRILLING INC	92,803
HFOUR DESIGN CORPORATION	38,908
HI-LITE TRUCK ACCESSORIES LTD	79,947
HILTI (CANADA) LIMITED	105,302
HORTON CBI, LTD	51,341
HOSKIN SCIENTIFIC (WESTERN) LIMITED	62,477

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

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Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
HOULE ELECTRIC LIMITED	39,405
HTT SAFETY N MORE INC	249,168
HUB POWER LTD	43,972
HUGHES TRUCKING LTD	120,171
HUNT TEMPORARILY YOURS	170,998
HUNTER LITIGATION CHAMBERS LAW	253,047
HYDROPRO PROPERTY SERVICES INC	110,306
HYSECO FLUID SYSTEMS LTD	39,326
I7 SOLUTIONS INC	34,720
ICARO CONSULTING LIMITED	34,880
ICONIX WATERWORKS LIMITED PARTNERSHIP	571,506
IDEASPACE	473,048
IDEON MEDIA INC	73,450
IDEXX LABORATORIES INC	132,250
IMA SOLUTIONS INC	29,640
IMPACT RECRUITMENT INC	74,501
IMPERIAL VALVE LTD	27,204
INDUSTRIAL COMPRESSOR SERVICES LTD	27,891
INFINITY POWER PRODUCTS	51,159
INLAND KENWORTH	32,199
INLINE TRAFFIC SERVICES LTD	183,236
INNOVACON WATER AND WELLS INC	279,071
INNOVATION LIGHTING INC	101,023
INNOVATIVE FLOORING LTD	256,521
INNOVATIVE MECHANICAL (1997) LTD	258,481
INSURANCE CORPORATION OF BC	713,166
INSYNCH ENGINEERING LTD	47,597
INTEGRAL GROUP	116,259
INTEGRATED POWER SERVICES	25,713
INTERCONTINENTAL TRUCK BODY	33,549
INTERLAWN LANDSCAPES	52,684
IREDALE ARCHITECTURE	43,801
IRIS LEGAL LAW CORPORATION	64,550
IRON MOUNTAIN EQUIPMENT RENTALS AND SALES	38,973
IRON SPEAR INFORMATION SECURITY LTD	140,963
ISCO CANADA INC	70,743
ISL ENGINEERING AND LAND SERVICES LTD	93,009
ITIQ TECH RECRUITERS	247,814
J. KERSCHBAUMER INC	107,730
J.A. ELECTRIC	1,380,648
J.C. ANDELLE INC	102,821
J.J.'S CONTRACTING	28,418
JACOB BROS. CONSTRUCTION INC	682,193
JACOBS ASSOCIATES CANADA CORPORATION	3,344,998
JAMES R. KITSUL TRUST	500,000
JAYCORP ENGINEERING & MANAGEMENT LTD	48,578
JEWEL HOLDINGS LTD	1,078,710
JEFFY JOHN RENTALS LTD	182,777
JIM PATTISON INDUSTRIES LTD	667,109
JJM CONSTRUCTION LTD	13,007,304
JOHN BROOKS COMPANY LIMITED	35,709
JOHN CRANE CANADA INC	145,816
JOHN HERBERT	128,130

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

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Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
JOHNSON CONTROLS LTD	55,764
JOHNSTON GAS SERVICES	207,220
JOHNSTON RESEARCH INC	121,078
JPSH ENTERPRISE INC	416,540
JUSTASON MARKET INTELLIGENCE	83,633
JWC ENVIRONMENTAL CANADA ULC	155,969
K & H DISPATCH COURIERS	56,963
K.G. WARDSTROM INDUSTRIAL GAS	27,417
K2 FASTENERS	82,796
K2 SERVICES	216,057
K9 COMMUNITY CLEAN LTD	32,256
KAL TIRE	112,181
KASIAN ARCHITECTURE INTERIOR DESIGN	26,250
KATZIE DEVELOPMENT LIMITED PARTNERSHIP	3,455,247
KELLER EQUIPMENT SUPPLY LTD	67,160
KEMIRA WATER SOLUTIONS CANADA INC	763,135
KENAI DAN CONTRACTING LTD	162,544
KENDRICK EQUIPMENT LTD	49,142
KERR WOOD LEIDAL ASSOCIATES	1,053,989
KGAL CONSULTING ENGINEERS LTD	31,489
KING SERVICES CONSTRUCTION GROUP &	70,355
KINGSTON CONSTRUCTION LTD	1,362,863
KISTERS NORTH AMERICA	53,934
KLEANZA CONSULTING LTD	103,983
KLOHN CRIPPEN BERGER LTD	1,042,700
KMS TOOLS	86,396
KOFFMAN KALEF LLP	217,040
KOFFMAN KALEF IN TRUST	25,439,767
KONTUR GEOTECHNICAL CONSULTANTS INC	45,073
KWELA LEADERSHIP & TALENT MANAGEMENT	72,309
KWIKWETLEM FIRST NATION	153,433
LABWARE INC	54,037
LAFARGE CANADA INC	569,701
LANDMARK BUILDING MAINTENANCE	138,073
LANESAFE TRAFFIC CONTROL LTD	200,295
LANGLEY TOWNSHIP OF	160,672
LANGLEY CONCRETE & TILE LTD	239,908
LANGUAGE LINE SERVICES	55,319
LATERA ENGINEERING INC	29,908
LAURA GALLOWAY DESIGN	93,043
LAWSON LUNDELL BARRISTERS & SOLICITORS	199,771
LEADERS INTERNATIONAL EXECUTIVE SEARCH	64,371
LEADING EPC CONSULTANTS INC	212,540
LEAVITT MACHINERY & RENTALS	98,415
LEAVITT MACHINERY GENERAL PARTNERSHIP	54,245
LEFTSIDE PARTNERS INC	45,271
LEGER MARKETING ALBERTA INC	45,990
LEHIGH MATERIALS A DIV. OF LEHIGH	146,663
LEICA GEOSYSTEMS LTD	66,331
LES HALL FILTER SERVICE LTD	40,702
LEVELTON CONSULTANTS LTD	42,705
LEX ENGINEERING LTD	33,902
LHOIST NORTH AMERICA OF CANADA INC	810,550

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

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Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
LICKER GEOSPATIAL CONSULTING LTD	27,021
LIDSTONE & COMPANY	158,220
LIFEWORCS (CANADA) LTD	46,086
LIMNO LAB LTD	26,644
LIMNOTEK RESEARCH AND DEVELOPMENT INC	57,733
LINDE CANADA INC	268,248
LINKEDIN CORPORATION	48,648
LITZ CRANE SERVICE LTD	249,335
LIVINGSTON INTERNATIONAL INC	111,622
LOCAL PRACTICE ARCHITECTURE + DESIGN LTD	1,497,379
LOCKMASTERS INC	71,475
LONG VIEW SYSTEMS CORPORATION	66,519
LORDCO PARTS	67,338
LUCENT QUAY CONSULTING INC	201,126
M&E CUSTOM KITCHEN AND MILLWORK LTD	744,386
MACK KIRK ROOFING AND SHEET METAL LTD	755,556
MAGNUM ROOFING LTD	25,972
MAINLAND CONSTRUCTION MATERIALS	833,870
MAPLE LEAF DISPOSAL LTD	421,726
MAPLE REINDERS CONSTRUCTORS LTD	11,799,236
MAPLE RIDGE CITY OF	91,955
MAPLE RIDGE TANK CLEANING SERVICE LTD	25,517
MARSH CANADA LIMITED	6,581,142
MATCON CIVIL CONSTRUCTORS INC	3,988,100
MATRIX VIDEO COMMUNICATIONS CORP	36,353
MATSON PECK AND TOPLISS	45,602
MAVEN CONSULTING LIMITED	122,757
MAXXAM ANALYTICS INTERNATIONAL CORP.	58,570
MCELHANNEY LTD	425,668
MCGREGOR HARDWARE DISTRIBUTION	25,428
MCKENZIE BRUCE	54,667
MCMILLEN JACOBS ASSOCIATES	1,802,822
MCNEILL NAKAMOTO RECRUITMENT GROUP INC	43,520
MCRAE'S ENVIRONMENTAL SERVICES LTD	2,061,965
MEASUR DBA 879142 ALBERTA LTD	28,798
MEDTECH SERVICES LTD	33,632
MEGATECH ENGINEERING LTD	49,930
MELTWATER NEWS CANADA INC	41,089
MEQUIPCO LTD	82,353
MERAN INDUSTRIES LTD	46,170
MERCEDES-BENZ CANADA INC	88,405
MERCER CANADA LIMITED	38,089
MERRICK ARCHITECTURE LTD	32,045
MESA ENTERPRISES	36,443
MESSER CANADA INC	49,147
METAL SUPERMARKETS	157,382
METRO CONCRETE RESTORATION LTD	66,680
METRO MOTORS LTD	124,068
METRO ROOFING REPAIRS & MAINTENANCE LTD	234,523
METRO TESTING & ENGINEERING LTD	915,662
METROHM CANADA	34,156
METTLER TOLEDO INC	92,160
MICROSOFT CANADA CO.	375,379

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Supplier Name	Payment Amount
MIGHTY MOE PROPERTY MAINTENANCE	44,095
MILES EMPLOYMENT GROUP LTD	25,069
MILLER HULL PARTNERSHIP LLP	547,989
MILLIPORE (CANADA) LTD	26,842
MINISTER OF FINANCE	5,115,765
MISSION CONTRACTORS	126,757
MITCHELL INSTALLATIONS LTD	1,647,746
MITEL NETWORKS CORPORATION	83,972
MNA MICHELIN CANADA	30,003
MODU-LOC FENCE RENTALS LTD	37,241
MONERIS	460,454
MONIQUE MCQUEEN	52,078
MORNEAU SHEPELL	80,635
MORRISON HERSHFIELD LIMITED	2,752,609
MORROW BIOSCIENCE LTD	77,075
MOTION CANADA	326,962
MOTT MACDONALD	5,594,959
MRG EVENTS LTD	325,265
MTS ENGINEERING INC	1,197,436
MULTIVISTA CONSTRUCTION DOCUMENTATION ULC	61,499
MURTAGH SIMON	33,052
MUSQUEAM INDIAN BAND	130,150
MV RELIABILITY SERVICES	220,362
N.A.T.S. NURSERY LTD	83,704
N.W. INDUSTRIES LTD	133,476
NAC CONSTRUCTORS LTD	50,977,799
NAGPAL CONSULTING	140,665
NALCO CANADA CO.	174,900
NASH JOHNSTON LLP	68,589
NATIONAL AIR TECHNOLOGIES	30,424
NATIONAL PROCESS EQUIPMENT	89,904
NATIONS FIRST CONTRACTING	156,332
NATIVETEK SOLUTIONS	52,805
NAUTILUS ENVIRONMENTAL	134,928
NCE VALUE ENGINEERS INC	66,885
NEUTRAL ZONE COACHING AND	54,521
NEW CITY CONTRACTING LTD	237,172
NEW WESTMINSTER CORP. OF THE CITY	1,295,898
NEWEGG CANADA INC	32,484
NEW-LINE PRODUCTS LTD	185,866
NICKERSON CONSULTING SERVICES	30,048
NIDEC MOTOR CORPORATION	140,604
NORCAN FLUID POWER LTD	32,825
NORLANG CONTRACTING LTD	229,725
NORTH AMERICAN PIPE AND STEEL LTD	74,131
NORTH ARM MACHINE LTD	49,981
NORTH VANCOUVER CITY OF	85,451
NORTH VANCOUVER THE DISTRICT OF	409,992
NORTHERN BUILDING SUPPLY LTD	159,450
NORTHSIDE TRANSPORT LTD	39,210
NORTHSTAR ACCESS LTD	93,030
NORTHWEST HYDRAULIC CONSULTANTS LTD	527,898
NORTHWEST PIPE COMPANY	10,197,672

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
NORTON ROSE FULBRIGHT	2,188,337
NORTON ROSE FULBRIGHT IN TRUST	34,045,000
NSCP DESIGN BUILD LP	9,887,381
NUCOR ENVIRONMENTAL SOLUTIONS LTD	152,199
O2 PLANNING & DESIGN INC	74,445
OCEAN PIPE A DIVISION OF LEHIGH HANSON	72,716
ON POWER SYSTEMS INC	103,071
ON THE SPOT SERVICES INC	343,262
ONO WORK & SAFETY SURREY	41,403
OPEN TEXT CORPORATION	277,521
OPTIMUM TALENT INC	26,670
OPUS INTERNATIONAL CONSULTANTS (CANADA)	3,813,187
ORACLE CANADA ULC	125,076
ORBE CANADA INC DBA ORBINOX	51,624
ORKIN/PCO SERVICES CORPORATION	53,771
OSCAR RENDA CONTRACTING OF CANADA INC	1,596,920
PACHENA PROPERTIES LTD	8,399,949
PACIFIC BOILER LTD	133,317
PACIFIC CONTROLS LTD	224,418
PACIFIC FLOW CONTROL LIMITED	320,188
PACIFIC NATIONAL EXHIBITION	100,000
PACIFIC ONE CONTRACTING INC	81,807
PACIFIC PARKLANDS FOUNDATION	47,407
PACIFIC POWERTECH INC	145,450
PACIFIC RIM INDUSTRIAL INSULATION LTD	38,922
PACIFIC WEST TREE SERVICES INC	36,855
PACIFIC-SURREY CONSTRUCTION LTD	32,051
PACWILL ENVIRONMENTAL	71,940
PALADIN TECHNOLOGIES INC	118,944
PALMIERI BROS. PAVING LTD	352,322
PANARAMA TECHNOLOGIES LTD	54,254
PAR BHULLAR TRUCKING LTD	29,037
PARK DEROCHIE SEASIDE COATINGS INC	33,823
PARK PEOPLE PROJECTS CANADA	41,663
PARK SOLUTIONS INC	763,484
PARKER JOHNSTON INDUSTRIES LTD	72,204
PARKLAND CORPORATION	61,709
PARSONS INC	592,014
PARTNERSHIP FOR WATER SUSTAINABILITY IN	40,000
PATHWISE SOLUTIONS INC	38,883
PCL CONSTRUCTORS WESTCOAST INC	1,706,300
PECK & COMPANY	38,523
PEDRE CONTRACTORS LTD	24,219,538
PENGUIN APPLIANCES SALES AND SERVICE INC	64,489
PERI FORMWORK SYSTEMS INC	38,899
PERSONA CONSTRUCTION LTD	122,587
PETRO CANADA LUBRICATIONS INC	261,266
PHOENIX TRUCK & CRANE	204,328
PHSA LABORATORIES SERVICES	136,363
PIKA PUMP & COMPRESSOR	46,162
PINCHIN ENVIRONMENTAL LTD	47,775
PINNA SUSTAINABILITY INC	117,099
PINTON FORREST & MADDEN GROUP INC	101,873

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES
For the year ended December 31, 2021
Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
PLATINUM STONE CONTRACTING	333,174
PLATYPUS CREATIVE GROUP COMMUNICATIONS	131,674
PMA CONSULTANTS, LLC	33,143
POLAR BATTERY LTD	33,757
POLYCRETE RESTORATIONS LTD	26,333
POLY-MOR CANADA INC	216,781
POMERLEAU-BESSAC G.P.	45,329,643
PORT COQUITLAM THE CITY OF	259,954
PORT MOODY CITY OF	75,604
POTENTIALIZE CONSULTING INC	73,500
POTTINGER GAHERTY ENVIRONMENTAL CONSULTA	69,668
POWELL CANADA INC	88,557
POWERHOUSE BUILDING SOLUTIONS (2009) INC	61,494
POWERTECH LABS INC	49,406
POWERWOOD	25,264
PRAIRIECOAST EQUIPMENT INC	163,707
PRAXAIR CANADA INC	757,139
PRECISE PARKLINK INC	28,524
PRECISION SERVICE & PUMPS INC	46,481
PRICE WATERHOUSE COOPERS	50,925
PRIMARY ENGINEERING AND CONSTRUCTION CORPORATION	49,713
PRIORITY ELECTRIC LTD	113,182
PROCON SYSTEMS (2013) INC	69,059
PROFICIENCY TESTING CANADA	35,262
PROGRESSIVE FENCE INSTALLATIONS LTD	96,290
PROGRESSIVE SEALING INC	253,354
PROSTAR PAINTING & RESTORATION LTD	140,586
PRO-TECH INDUSTRIAL MOVERS	34,508
PROTEL NETWORK DESIGN LTD	43,912
PUBLIC STORAGE	35,534
PURE TECHNOLOGIES LTD	306,175
PW TRENCHLESS CONSTRUCTION INC	1,205,489
PWA CUSTOM ALUMINUM SOLUTIONS INC	151,726
PWL PARTNERSHIP LANDSCAPE ARCHITECTS INC	80,696
QUADRA UTILITY LOCATING	31,675
QUALICHEM INDUSTRIAL PRODUCTS LTD	59,066
QUESTICA INC	95,763
R. DOSENBERG CONSULTING LTD	59,117
R. McDOUGALL CONSULTING AGROLOGIST	31,246
R.D. BACKHOE SERVICES INC	30,643
R.D.M. ENTERPRISES LTD	161,424
R.F. BINNIE & ASSOCIATES LTD	873,471
RAIDER HANSEN	27,458
RAM ENGINEERING	217,803
RAMTECH ENVIRONMENT PRODUCTS	59,369
RAPID AUTO GLASS LTD	49,602
RAPID TEST & TRACE CANADA	34,048
RAPID TRAFFIC MANAGEMENT LTD	69,411
RARE EARTH RECREATIONAL DEVELOPMENTS INC	76,558
RATIO ARCHITECTURE INTERIOR DESIGN	60,134
RAY BROWNE ROOFING LTD	43,527
RDH BUILDING SCIENCE INC	86,464
RECEIVER GENERAL OF CANADA	87,099

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES
For the year ended December 31, 2021
Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
RECYCLING COUNCIL OF BC	125,321
REDDEN NET COMPANY LTD	26,982
REDWOOD PLASTICS CORPORATION	91,385
REMDAL PAINTING & RESTORATION INC	128,988
REMEDX REMEDIATION SERVICES LTD	26,759
REMPEL BROS CONCRETE LTD	26,256
REN EX EARTHWORKS	322,652
RESEARCH INSTITUTE FOR KNOWLEDGE SYSTEMS (RIKS) BV	31,000
RESHAPE INFRASTRUCTURE STRATEGIES LTD	210,170
RETRO SPECIALTY CONTRACTORS INC	228,894
REUTER CHRISTA	51,572
RICHCO CONTRACTING LTD	39,150
RICHMOND CITY OF	468,509
RICHMOND HOLDINGS (2015) LTD	89,496
RICHMOND SCALE LTD	41,092
RICHVAN HOLDINGS (2006) LTD	105,541
RIDER HUNT INTERNATIONAL (ALBERTA) INC	55,024
RIPTIDE MARINE SALES LTD	26,230
RITWAY TC SERVICES LTD	31,434
RIVER VALLEY CONSTRUCTION SERVICES LTD	50,093
ROBERDS EXCAVATING (1991) LTD	92,589
ROGERS WIRELESS	444,235
ROLLINS MACHINERY LTD	27,648
RONA	91,815
ROPER GREYELL LLP	166,277
ROSS MORRISON ELECTRICAL LTD	1,312,101
ROYAL BANK OF CANADA	71,337
RS WALDIE CONSULTING LTD	156,514
RSVAGE CONTRACTING	109,359
RST INSTRUMENTS LTD	31,481
RWDI AIR INC	34,734
RYDER ARCHITECTURE (CANADA) INC	34,760
SAFEGUARD FENCE & LABOUR LTD	97,298
SALISH ENVIRONMENTAL GROUP	33,983
SAMSUNG	90,413
SANCAT EXCAVATING LTD	172,581
SANDERSON CONCRETE INC	60,515
SARTORI ENVIRONMENTAL SERVICES	719,797
SASAMAT VOLUNTEER FIRE FIGHTERS ASSOC	38,885
SASKAY SOIL TRANSFER FACILITY	25,837
SCHNEIDER ELECTRIC CANADA INC	103,475
SCHOOL DISTRICT 36 SURREY	287,828
SCHOOL DISTRICT NO. 39 (VANCOUVER)	46,680
SCL INSTRUMENTATION INC	29,802
SCOOBY'S DOG WASTE REMOVAL SERVICE LTD	143,383
SCOTT MITCHELL EXCAVATING LTD	443,818
SCS ENGINEERS	49,432
SEA TO SKY SOILS AND COMPOSTING INC	2,131,952
SEAWARD ENGINEERING & RESEARCH LTD	71,400
SEKHON P. TRUCKING	66,338
SEL SCHWEITZER LABORATORIES INC	168,003
SGS AXYS ANALYTICAL SERVICES LTD	814,100
SHAW CABLE	84,288

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES
For the year ended December 31, 2021
Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
SHAW TELECOM G.P.	83,197
SI SYSTEMS PARTNERSHIP	225,283
SIDHU S. TRUCKING	245,357
SIEMENS CANADA LIMITED	76,192
SIGNSOURCE ARCHITECTURAL SIGNAGE LTD	35,681
SIMON FRASER UNIVERSITY	67,197
SINGLETON URQUHART REYNOLDS VOGEL LLP	120,708
SITE MARKETING PARTNERS INC	29,336
SKYE CONSULTING (B.C.) LTD	92,606
SKY-HI SCAFFOLDING LTD	34,981
SKYLARK MANAGEMENT CORP	318,220
SLINGSHOT COMMUNICATIONS INC	145,740
SMITH CAMERON PROCESS SOLUTIONS	385,379
SMS EQUIPMENT INC	132,140
SNC-LAVALIN INC	81,667
SNF CANADA LTD	853,975
SOFTCHOICE LP	153,850
SOLENIS CANADA ULC	1,865,030
SOLID CADDGROUP	55,449
SOLUTIONS PEST CONTROL LTD	111,048
SOMATIC HVAC SOLUTIONS LTD	28,601
SONNEVERA INTERNATIONAL CORP.	54,755
SOS PLUMBING AND HEATING LTD	179,462
SOURCE OFFICE FURNISHING	35,584
SOUTH COAST BRITISH COLUMBIA	829,587
SOUTHERN CROSS HOLDINGS LTD	362,315
SOUTHERN RAILWAY OF B.C.	45,996
SOUTHPAW LEARNING PLAN	116,671
SPARTAN CONTROLS LTD	1,874,870
SPATIAL TECHNOLOGIES PARTNERSHIP GROUP	35,606
SPECTRUM SAFETY GROUP	271,876
SPENCER MCDONALD & ASSOCIATES INC OA THINKING DRIVER	73,678
SPICERS CANADA	75,163
SQUAMISH NATION	1,597,351
SR ENGINEERING LTD	30,179
STAGEFAB CUSTOM MANUFACTURING INC	26,455
STANDARD BUILDING SUPPLIES LTD	74,808
STANTEC ARCHITECTURE LTD	157,299
STANTEC CONSULTING LTD	5,063,802
STAPLES	133,613
STARBRUSH PAINTING	26,670
STASUK TESTING & INSPECTION LTD	468,466
STATUS ELECTRICAL CORP	502,049
STEWART MCDANNOLD STUART	93,544
STILL CREEK COLLISON	59,019
STINGRAY SAND & GRAVEL LTD	276,098
STREETLIGHT DATA INC	31,500
STUART OLSON CONSTRUCTORS LTD	25,481,333
SUMMERFIELD CONTRACTING LTD	643,724
SUMMIT VALVE AND CONTROLS INC	294,934
SUNBURY CEDAR	64,304
SUPER SAVE FENCE RENTALS INC	42,557
SUPER SAVE FUELS	170,746

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
SUPERIOR CITY SERVICES LTD	130,185
SUPERIOR PROPANE LIMITED	84,293
SURREY CITY OF	1,433,928
SUSPENDED STAGES	30,559
SUTHERLAND CONCRETE LTD	33,569
SYLVIS ENVIRONMENTAL	1,317,702
SYNCOLLAB STRATEGIES	98,149
T&T POWER GROUP INC	57,961
TALON HELICOPTERS LIMITED	343,048
TARGET LAND SURVEYING LTD	94,792
TECHNICAL SAFETY BC	48,076
TEGHAN ACRES	44,729
TEKSYSTEMS CANADA CORP./SOCIETE TEKSYSTEMS CANADA	248,564
TELUS COMMUNICATIONS INC	1,209,743
TERVITA CORPORATION ENVIRONMENTAL	423,199
TETRA TECH CANADA INC	1,792,529
TFM CONSULTANTS	33,153
THE ACTIVE NETWORK	50,000
THE BLUE GOOSE CATTLE COMPANY	46,000
THE BRICK LTD	71,406
THE C&E CONSULTING GROUP LTD	340,135
THE CANADA LIFE ASSURANCE COMPANY	284,831
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINT IN CANADA	182,800
THE CRITICAL THINKING CONSORTIUM	31,836
THE HOME DEPOT	316,330
THE PALADIN SECURITY GROUP	2,236,166
THOMPSON FOUNDRY LTD	74,175
TIGHT 5 CONTRACTING LTD	45,775
TIM LAWRENCE FILMS	76,059
TINBOX ENERGY SOFTWARE INC	71,119
TIP TOP CARPETS LTD	351,967
TLD COMPUTERS INC	128,641
TOOLNHAND CONTRACTING SERVICES LTD	203,858
TOROK NATHANIEL	50,899
TRANE BRITISH COLUMBIA	72,811
TRANMOTION SERVICES LTD	29,085
TRANS POWER CONSTRUCTION (1999) LTD	32,498
TRANSLINK	74,592
TRAYLOR-AECON GP	71,016,843
TREE ISLAND INDUSTRIES	221,734
TREEKO CONTRACTING LTD	108,305
TREVOR JARVIS CONTRACTING LTD	61,593
TRI ENVIRONMENTAL CONSULTING INC	29,160
TRI-CITY SITE SERVICES LTD	92,092
TRIX CONTRACTING LTD	61,925
TRITECH GROUP LTD	3,804,576
TRIUMPH TRAFFIC INDUSTRIES INC	72,723
TSAA RESOURCE MANAGEMENT LTD	150,126
TSLEIL-WAUTUTH NATION	54,261
TSS SAFETY SERVICES - PACIFIC EHS	45,986
TUNDRA PROCESS SOLUTIONS LTD	175,180
TUPPER LANDSCAPING INC	25,164
TURNING POINT RESOLUTIONS INC	26,460

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
TURN-KEY CONSTRUCTION INC	230,671
UBS INDUSTRIES	35,703
ULINE	236,608
UNDERHILL GEOMATICS LTD	187,924
UNIFIED ALLOYS	33,178
UNIFIED SYSTEMS INC	51,006
UNISYNC GROUP LTD	80,911
UNIT4 BUSINESS SOFTWARE CORPORATION	246,227
UNITED DEFENSE SECURITY II LTD	65,122
UNITED RENTALS, INC	964,564
UNITEK SYSTEMS	40,672
UNITOW	149,475
UNIVAR CANADA LTD	51,460
UNIVERSAL LANDSCAPING INC	209,790
UNIVERSITY OF BRITISH COLUMBIA	850,131
UNIVERSITY OF OTTAWA	49,080
UNIVERSITY OF VICTORIA	28,634
UPLAND AGRICULTURAL CONSULTING LTD	67,967
USP TECHNOLOGIES CANADA ULC	168,674
VALLEN CANADA INC	37,969
VALLEY TRAFFIC SYSTEMS INC	426,808
VALLEYSIDE CONTRACTING SERVICES LIMITED	45,518
VANCO GASKETS LTD	67,819
VANCOUVER CITY OF	21,120,189
VANCOUVER FIRE & RADIUS SECURITY	44,855
VANCOUVER FRASER PORT AUTHORITY	2,128,861
VANCOUVER HOLDINGS (B.C.) LTD	58,067
VANCOUVER ISLAND UNIVERSITY	70,215
VANCOUVER PILE DRIVING LTD	466,074
VANCOUVER SIGN GROUP	121,538
VANCOUVER TRAFFIC SYSTEMS	477,250
VANPORT ENTERPRISES LTD	110,372
VEGA INSTRUMENTS CANADA LTD	35,786
VEOLIA ES CANADA INDUSTRIAL SERVICES	114,325
VEOLIA WATER TECHNOLOGIES CANADA INC	34,880
VERITIV CANADA INC	99,059
VIA ARCHITECTURE	237,060
VICTORIA MOBILE RADIO LTD	169,069
VIKING FIRE PROTECTION INC	59,387
VWNA PROCESS SOLUTIONS/CANADA, INC	41,841
VWR INTERNATIONAL	183,803
WAGNER MAINTENANCE	569,463
WAINBEE LIMITED	75,312
WAJAX INDUSTRIAL COMPONENTS	201,421
WARD AND BURKE MICROTUNNELLING LTD	6,267,831
WASP CONSULTING LTD	25,304
WASSERMAN & PARTNERS ADVERTISING INC	365,139
WASTE AND RESOURCES ACTION PROGRAMME	33,983
WASTE´N WATERTECH	84,756
WATERS LIMITED	61,983
WBM TECHNOLOGIES INC	84,180
WCC ENGINEERING CORP	101,992
WEIR-JONES ENGINEERING LTD	183,496

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
WESCO DISTRIBUTION CANADA INC	452,088
WEST COAST ELEVATOR SERVICES LTD	168,808
WEST SHORE CONSTRUCTORS LTD	924,882
WEST VANCOUVER CORP OF THE DISTRICT	639,604
WESTBURNE ELECTRIC SUPPLY	224,125
WESTECH INDUSTRIAL LTD	30,868
WESTERLY RESTORATION LTD	194,800
WESTERN WEED CONTROL (1980) LTD	48,668
WESTERRA EQUIPMENT	167,160
WESTLUND INDUSTRIAL SUPPLY LTD	56,203
WESTMAR ADVISORS INC	54,599
WESTPRO A DIVISION OF POMERLEAU INC	2,533,760
WESTSIDE PEST CONTROL LTD	63,000
WHITE PINE ENVIROMENTAL RESOURCES INC	96,445
WHITE ROCK CITY OF	40,083
WILL CREATIVE INC	34,188
WINVAN PAVING A DIVISION OF MAINLAND CONSTRUCTION MATERIALS ULC.	104,550
WISMER & RAWLINGS ELECTRIC LTD	256,443
WJF INSTRUMENTATION (1990) LTD	80,683
WOLSELEY INDUSTRIAL CANADA INC	339,356
WOOD CANADA LIMITED	699,694
WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS A DIVISION OF WOOD CANADA LTD	239,215
WOOD WYANT INC	31,232
WSP CANADA GROUP LIMITED	2,886,051
XEROX OF CANADA LIMITED	94,836
XYLEM CANADA LP	921,710
YELLOWRIDGE CONSTRUCTION LTD	351,767
YOUNG ANDERSON BARRISTERS & SOLICITORS	72,810
ZAYO CANADA INC	90,359
Payment to suppliers of goods and services who received aggregate payment exceeding \$25,000	\$ 842,208,246
Total payments to suppliers who received aggregate payments of \$25,000 or less	13,041,535
Total payments made to Canadian suppliers (excluding aggregate Flow Through Payments, Grant/Contributions)	\$ 855,249,781

Payroll, Debt and Mortgage Payments Made in 2021

CANADA MORTGAGE HOUSING CORPORATION (CMHC)	453,229
CANADA LIFE	311,402
CANADA REVENUE AGENCY	53,852,634
COAST CAPITAL	350,060
COQUITLAM CITY OF	35,621
DELTA CITY OF	82,048
FIRST NATIONAL	514,891
GVRDEU	671,674
MAPLE RIDGE CITY OF	28,710,000
MCAP	1,401,654
MINISTER OF FINANCE	3,564,614
MUNICIPAL FINANCE AUTHORITY	284,290,185
MUNICIPAL PENSION PLAN	29,498,526

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to Canadian Suppliers (\$Cdn)

Supplier Name	Payment Amount
PACIFIC BLUE CROSS	5,761,301
PEOPLE'S TRUST COMPANY	341,213
ROYAL BANK OF CANADA	687,900
SURREY CITY OF	149,094,000
TEAMSTERS LOCAL UNION #31	807,265
THE GREAT WEST LIFE ASSURANCE COMPANY	3,413,277
TRANSLINK	2,701,641
UNITED WAY OF THE LOWER MAINLAND	31,843
WORKSAFE BC	2,123,109

Total Payment and Flow Through Payments made in 2021

\$ 568,698,085

Payment made in 2021 for External Contributions

Board Approved Contributions

CATCHING THE SPIRIT YOUTH SOCIETY	75,000
FRASER BASIN COUNCIL SOCIETY	300,000
KANAKA EDUCATIONAL & ENVIRONMENTAL	36,000
PACIFIC PARKLANDS FOUNDATION	179,000
RECEIVER GENERAL OF CANADA	67,985
SEYMOUR SALMONID SOCIETY	125,000
THOMPSON RIVERS UNIVERSITY	75,000
WATERSHED WATCH SALMON SOCIETY	34,000

Payments for External Contributions exceeding \$25,000

\$ 891,985

Payments for External Contributions of \$25,000 or Less

423,600

Total Payment made in 2021 for External Contributions

\$ 1,315,585

Total Payment made to Canadian Suppliers (\$Cdn)

\$ 1,425,263,452

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES

For the year ended December 31, 2021

Payments to US Suppliers

<u>Supplier Name</u>	<u>Payment Amount</u>
BEAVER ELECTRICAL MACHINERY LTD (USD)	\$ 120,680
COMOTION INC	50,000
CORPORATE SERVICES LLC	111,980
CUMMINS WESTERN CANADA LP (USD)	557,593
EMPOWERING A GREEN ENVIRONMENT AND ECONOMY LLC	42,150
ENVIRONICS INC	81,342
FINNING INTERNATIONAL INC (USD)	1,275,711
FLSMIDTH INC	31,693
HUBER TECHNOLOGY INC	28,856
INDUSTRIAL SOFTWARE SOLUTIONS (USD)	31,920
INFOR (US) INC	324,121
INNOVYZE INC	45,458
MCMILLEN LLC	47,982
MRI SOFTWARE LLC	60,343
OSISOFT	68,972
PITCHBOOK DATA INC	40,650
SCHWING BIOSET INC	25,082
SSI COMPACTION SYSTEMS	1,462,538
TABLEAU SOFTWARE LLC	103,767
REPUBLIC SERVICES	2,631,240
UTILITY SYSTEMS TECHNOLOGIES INC (US)	313,064
VERSATA FZ LLC (US)	40,000
WASTE MANAGEMENT OF CANADA CORPORATION	3,186,603
WATER RESEARCH FOUNDATION (US)	254,804
Total payments to US suppliers who received amounts exceeding \$25,000	\$ 10,936,549
Total payments to US suppliers who received \$25,000 or less	498,607
Total payments made to US suppliers - US dollars	\$ 11,435,156 US\$
Total payments made to US suppliers - Canadian dollars	\$ 14,497,491 CAD\$

SCHEDULE OF PAYMENTS TO SUPPLIERS FOR GOODS AND SERVICES
For the year ended December 31, 2021
Reconciliation of Payments for Goods and Services to Financial Statements

Total payments to Canadian Suppliers (Schedule 5)	\$ 1,425,263,452
Total payments to US Suppliers - in Canadian dollars (Schedule 6)	<u>14,497,491</u>
	<u>\$ 1,439,760,943</u>
Total expenditures per Financial Statements	
Exhibit B - Consolidated Statement of Operations	\$ 645,397,442
Acquisition of tangible capital assets	
Exhibit C - Consolidated Statement of Change in Net Debt	720,500,623
Items included in Financial Statements but not in Schedules 5 and 6:	
Salaries and benefits per note 17 of financial statements	(208,107,340)
Salaries and benefits capitalized and included in tangible capital assets	(16,220,626)
2021 accounts payable and accrued liabilities	(384,234,381)
Sinking fund income attributed to members and Translink	(28,221,986)
Revenues collected against supplier payments	(18,429,861)
Building operations expenditures paid through contractor	(17,709,270)
Amortization of tangible capital assets	(86,414,786)
Amortization of prepaid land leases	(194,799)
Non-cash adjustments	(11,329,618)
Items not included in Financial Statements but in Schedule 5 and 6:	
2020 accounts payable and accrued liabilities	294,805,489
Payroll and other remittances	96,159,628
Municipal GST rebate and ITCs	41,915,309
Payments not resulting in goods and services:	
Payments to Member Municipalities for MFA debt	180,623,310
Payments to Municipal Finance Authority	284,290,185
Payments for MVHC mortgages	7,624,963
Interest long-term debt	(60,693,339)
	<u>\$ 1,439,760,943</u>

To: Finance Committee

From: Katie Karn, Deputy Corporate Officer, Board and Information Services

Date: April 26, 2022 Meeting Date: May 12, 2022

Subject: **Electronic Meeting Participation Policy**

RECOMMENDATION

That the MVRD Board:

- a) approve the *Electronic Meeting Participation Policy* as presented in the report dated April 26, 2022, titled “Electronic Meeting Participation Policy”; and
 - b) rescind the *Electronic Meetings and Participation by Members Guideline*.
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EXECUTIVE SUMMARY

A Board Policy is proposed establishing procedures for the administration of, and participation at, electronic Board and committee meetings, addressing attendance and quorum; remote location requirements; how to obtain the floor; voting; confidentiality and unauthorized access; conflict of interest; and technology issues. The proposed *Electronic Meeting Participation Policy* formalizes the procedures that have taken place over the course of the past two years.

PURPOSE

To seek Board consideration of a policy regarding electronic participation at Board and Committee meetings.

BACKGROUND

During the pandemic, local governments were authorized to hold electronic meetings under the authority of the COVID Related Measures Act, including Ministerial Order M192. Early in the pandemic in 2020, the Board adopted an *Electronic Meetings and Participation by Members Guideline* to generally address procedures and practices related to participation in a virtual meeting using video-conference technology.

Following the expiration of Ministerial Order M192, at the September 24, 2021 MVRD Board meeting, the Board adopted an amendment to the *Board Procedure Bylaw*, to allow the continuance of electronic participation by members at Board and Committee meetings, at which time staff were also directed to bring forward a policy regarding electronic participation at Board and Committee meetings.

PROPOSED BOARD POLICY

The *Electronic Meeting Participation Policy* has been developed to support electronic meetings and to ensure meetings proceed seamlessly, regardless of whether members are participating electronically or in person. During the development of the proposed policy, staff took into consideration provisions from within similar policies belonging to member municipalities, as well as relevant items from the current *Electronic Meetings and Participation by Membership Guideline*.

The proposed policy helps to improve meeting efficiency, and documents current electronic meeting practices as they exist. If approved by the Board, the Electronic Meeting Participation Policy will be reinforced as part of the upcoming orientation for elected officials following this Fall's election.

The proposed Policy includes provisions as follows:

Attendance / Quorum

The Attendance / Quorum provision confirms that a member who joins a meeting via electronic means is deemed to be present at the meeting, and establishes the procedure a member must take if they must leave for a portion of the meeting. From a meeting management perspective, leaving the Zoom application is necessary when a member is no longer present, in order to ensure quorum is maintained.

Remote Location Requirements

The Remote Location Requirements provision includes a general clause that electronic participants are to ensure their location is conducive to a formal meeting.

How to Obtain the Floor

The How to Obtain the Floor provision confirms that speakers are to use the Raise Hand function, regardless of whether present in the Boardroom or electronically. Speakers will be called upon in the order their hands are raised, maintaining fairness amongst those participating in person and electronically.

Voting

The Voting provision reinforces that although a camera may be turned off, an electronic participant is considered present at the meeting and will be deemed to have voted in favor of a motion unless otherwise verbalized. A member should make every effort to ensure their camera is turned on during a meeting.

Confidentiality and Unauthorized Access

The Confidentiality and Unauthorized Access provision reminds participants of the requirement to ensure confidentiality of the meeting is maintained when meetings are closed to the public pursuant to Section 90 of the *Community Charter*. It also addresses what steps an electronic participant must take when unauthorized access to their meeting location takes place, and speaks to re-establishing security of their location.

Conflict of Interest

The Conflict of Interest provision establishes the process of how an electronic participant declares a conflict of interest, notably, the electronic participant is to seek recognition from the Chair; declare and describe the conflict; be placed in an electronic waiting room; and then return to the meeting once the item under consideration has concluded.

Technology Issues

The Technology Issues provision establishes the process of communicating with the Zoom operator when technology issues arise, and advises on how when a technical problem cannot be resolved, the electronic participant must leave the meeting.

EXISTING GUIDELINES

The current *Electronic Meetings and Participation by Members Guideline* is quite general in nature and sets out suggested participation practices, many of which are expanded on further in the proposed *Electronic Meeting Participation Policy*. It is recommended that should the Board approve the *Electronic Meeting Participation Policy*, the existing guidelines be rescinded as they will be redundant.

ALTERNATIVES

1. That the MVRD Board:
 - a) approve the *Electronic Meeting Participation Policy* as presented in the report dated April 26, 2022, titled “Electronic Meeting Participation Policy”; and
 - b) rescind the *Electronic Meetings and Participation by Members Guideline*.
2. That the Finance Committee refer the proposed *Electronic Meeting Participation Policy* as presented in the report dated April 26, 2022, titled “Electronic Meeting Participation Policy” back to staff to incorporate feedback from the Finance Committee.

FINANCIAL IMPLICATIONS

If the Board were to proceed with Alternative 1, approval of the policy would not have a financial impact. The policy has no impact to remuneration for attendance regardless of the form of participation.

CONCLUSION

A Board policy is proposed to establish procedures for the administration of, and participation at, electronic Board and committee meetings, to support electronic meetings and participation proceeding seamlessly, regardless of whether members are participating electronically or in person.

Attachments

1. Electronic Meeting Participation Policy
2. Electronic Meetings and Participation by Members Guideline

4788876

METRO VANCOUVER ELECTRONIC MEETING PARTICIPATION POLICY

Effective Date: [Click or tap to enter a date.](#)

Approved By: MVRD Board

Policy No. XX-XXX
(Assigned by BIS)

PURPOSE

To establish procedures for the administration of, and participation at, electronic Board and committee meetings.

DEFINITIONS

“Electronic Meeting” means a meeting where some or all members are electronic participants;

“Electronic Meeting Administrator” means the Metro Vancouver staff member assigned to administer and operate the designated electronic meeting platform;

“Electronic Participant” means a member who participates in a meeting by means of electronic or other communication facilities; and

“Member” means a director of the Board, or a person appointed to a committee, as the context requires.

POLICY

The *Local Government Act*, together with the *Board Procedure Bylaw*, authorize electronic participants at Board and committee meetings.

Electronic meetings and participation should reflect in-person meetings and participation as closely as possible. When members are participating in Board and committee meetings as electronic participants, they are deemed to be present at the meeting and are to follow certain participation practices to facilitate the proceedings.

1. Attendance / Quorum

- a) A member who joins a meeting via electronic means is deemed to be present at the meeting.
- b) An electronic participant will be noted as present at the meeting whether their video camera is turned on or off, although members will make every effort to limit times when their video camera is turned off.
- c) In the case where an electronic participant becomes unavailable to participate in the meeting and is required to excuse themselves for a portion of the meeting, the electronic participant is to formally leave the meeting by exiting the designated electronic meeting platform, in an effort to maintain an accurate quorum count. The electronic participant is to then rejoin the

BOARD POLICY

meeting via the designated electronic meeting platform when they become available to participate in the meeting again.

2. Remote Location Requirements

- a) Electronic participants will ensure their location is conducive to a formal meeting, including:
 - i. a background free from unnecessary or inappropriate visual or auditory noise; and
 - ii. no movements, images, items or sounds that may interfere with clarity of speech or that would create distraction for others.

3. Obtaining the Floor

- a) Electronic participants will keep their microphones muted unless they have been given the floor by the Chair or are raising a point of order or privilege.
- b) Electronic participants will obtain the floor (ie. seek permission from the Chair to speak) by using the 'raise hand' function in the designated electronic meeting platform.
- c) The Chair will give the floor to members in the order in which they raise their hands.

4. Voting

- a) In the event an electronic participant has their video camera turned off when a vote is called, they will be deemed as having voted in favour of the motion.

5. Confidentiality and Unauthorized Access

- a) During meetings which are closed to the public pursuant to Section 90 of the *Community Charter*, electronic participants must ensure confidentiality of the meeting is maintained at all times, including ensuring that no other person can hear or see any aspect of the meeting.
- b) In the case of unauthorized access to an electronic participant's closed meeting location, the electronic participant must immediately disconnect from the meeting or be placed in the waiting room by the electronic meeting administrator. Once the electronic participant has re-established the security of their location, the electronic participant may rejoin the meeting, or if placed into the electronic waiting room, notify the electronic meeting administrator of their readiness for readmission.

6. Conflict of Interest

- a) If an electronic participant finds themselves in a conflict of interest while attending a meeting electronically, they will:
 - i. use the 'raise hand' function in the electronic platform and once granted the floor by the Chair, declare their conflict of interest;
 - ii. be placed in the electronic waiting room by the electronic meeting administrator for the duration of the item; and
 - iii. be re-admitted into the meeting following the matter being dealt with by the Board or committee.

7. Technology Issues

- a) In the event an electronic participant experiences technical problems which prevent the electronic participant from hearing, or being heard, the electronic participant should make every effort to communicate with the electronic meeting administrator to resolve the issue.
- b) In the event the technical problems cannot be resolved, the electronic participant must leave the meeting by exiting the designated electronic meeting platform.

GUIDELINES FOR ELECTRONIC MEETINGS AND PARTICIPATION BY MEMBERS

PURPOSE

This guideline outlines suggested procedures and practices related to participation by electronic means at board and committee meetings.

The *Local Government Act*, together with the *Regional District Electronic Meeting Regulation*, authorizes board and committee members to participate in meetings using video-conference technology, in accordance with the conditions set out in the *Procedure Bylaw*.

When members are authorized to attend a meeting electronically, they are deemed to be present at the meeting, and are encouraged to follow participation practices to facilitate the proceedings.

ELECTRONIC MEETING PRACTICES

This section sets out suggested participation practices.

1. Joining the Electronic Meeting

- a) Join the electronic meeting 15 minutes before the start of the meeting.
- b) Confirm with staff that you can hear and be heard prior to the start of the meeting.
- c) Turn on the video camera and keep it on throughout the meeting as appropriate, unless technology limitations affect performance; and members may wish to use the standardized Metro Vancouver virtual background in video settings.
- d) Choose a suitable location that is free from incidental noise or other background features that could interrupt the proceedings.
- e) Choose a location where the light is on your face.
- f) Look at the camera.

2. Procedural Matters

- a) Follow the rules of order and decorum, and address remarks through the Chair and generally conduct the proceedings in a respectful manner.
- b) Seek recognition by the Chair by using the electronic “raise hand” function.
- c) Notify the Corporate Officer when leaving the meeting, even temporarily.
- d) If you believe you are in a conflict situation, declare a conflict of interest, and leave the meeting temporarily (and rejoin when staff so indicate).
- e) Vote on motions by way of voice vote, or if inconclusive, by way of roll-call vote.
- f) During a closed meeting, ensure that only you alone can listen and watch the proceedings to ensure confidentiality.

3. Etiquette

- a) Wear attire appropriate for a board or committee meeting.
- b) Refrain from multi-tasking during the proceedings.
- c) Remember to mute your microphone when you no longer have the floor.

4. Technology Issues

- a) Connect to the meeting using a suitable device to facilitate optimum participation, such as a desktop or laptop computer, or a tablet.
- b) If you experience technical problems that prevent you from hearing or being heard, communicate with staff to resolve the issue, knowing that if you must leave the meeting, quorum may be affected.

Assistance

If you have any questions, or need any assistance, please contact Chris Plagnol, Corporate Officer.

To: MVRD Board of Directors

From: Finance Committee

Date: May 12, 2022 Meeting Date: May 27, 2022

Subject: **External Organization Appointment Policy**

FINANCE COMMITTEE RECOMMENDATION

That the MVRD Board:

- a) approve the *External Organization Appointment Policy* as amended in the report dated April 26, 2022, titled “External Organization Appointment Policy” with the following amendments approved by committee:
 - (i) in the Term of Appointment section, include the phrase “whichever is longer”, and
 - (ii) in the Board Appointment Procedure section, strike the term “weighted”; and
- b) rescind the following Board policies: *Term of Appointees/Nominees to External Boards (GV-032)*, *Representatives on International Organizations (GV-031)*, and *External Agency Appointee Reporting Requirements (GV-006)*.

At its May 12, 2022 meeting, the Finance Committee considered the attached report titled “External Organization Appointment Policy” dated April 26, 2022.

In consideration of the policy, members requested the draft policy be revised to clarify the term of office for appointees, and questioned whether the vote to appoint a representative should be a weighted vote or a non-weighted vote. On the latter, members amended the draft to remove the “weighted vote” reference. Both revisions are reflected in the attached draft policy.

The Committee requested copies of the Board policies, which are being brought forward to be rescinded. The three Board policies listed in part b) of the Finance Committee recommendation are included as Attachment 2.

This matter is now before the Board for its consideration.

Attachment

1. “External Organization Appointment Policy”, dated April 26, 2022 (*as revised by Finance Committee*)
2. Board Policies to be Rescinded:
 - “Term of Appointees/Nominees to External Boards (GV-032) Policy” dated October 24, 2014
 - “Representatives on International Organizations (GV-031) Policy” dated October 24, 2014
 - “External Agency Appointee Reporting Requirements (GV-006) Policy” dated October 24, 2014

To: Finance Committee

From: Chris Plagnol, Corporate Officer

Date: April 26, 2022

Meeting Date: May 12, 2022

Subject: **External Organization Appointment Policy**

RECOMMENDATION

That the MVRD Board:

- a) approve the *External Organization Appointment Policy* as presented in the report dated April 26, 2022, titled “External Organization Appointment Policy”; and
- b) rescind the following Board policies: *Term of Appointees/Nominees to External Boards* (GV-032), *Representatives on International Organizations* (GV-031), and *External Agency Appointee Reporting Requirements* (GV-006).

EXECUTIVE SUMMARY

A Board Policy is proposed setting out the provisions for appointments to over 20 external organizations where Metro Vancouver has an interest. Outlining eligibility, equity and other criteria, the Policy emphasizes a two-step process: nominate then appoint. First, the Policy considers two categories of external organizations, requiring different nomination methods: (a) those nominated by the Chair from an internal pool of elected officials, and (b) those nominated by a standing committee from individuals from the community who have expressed an interest in serving. Second, the Board considers the nominees and has the sole authority to appoint them to each external organization.

PURPOSE

To seek Board consideration of a policy regarding appointments to external organizations.

BACKGROUND

Earlier in 2021, the Finance and Intergovernment Committee considered the process of appointing individuals to external organizations, and by resolution, directed staff to develop a policy for Board appointments to external organizations, particularly those that are paid, and report back. This report brings forward a proposed policy (Attachment 1) on appointments to external organizations.

EXTERNAL ORGANIZATIONS

Metro Vancouver benefits from appointing representatives on a variety of external organizations that helps to advance Metro Vancouver’s interests. Typically, Metro Vancouver appoints representatives to about 20 external organizations.

Two Categories of External Organizations

For the purposes of this proposed policy, the external organizations to which Metro Vancouver appoints fall in two general types or categories, described as follows:

1. Appointment of Board and Committee Members to External Organizations

Appointments to these External Organizations constitute the bulk of the appointments. Examples include the *Municipal Finance Authority*, the *National Zero Waste Council*, the *Fraser Valley Library Board*, among others (see Attachment 2).

Typically serving a one-year term, appointees in this category come from an “internal” pool, largely comprising Metro Vancouver Board Directors and Committee Members, who must meet any specific eligibility requirements, and who are remunerated either by Metro Vancouver (in accordance with the *Remuneration Bylaw*) or by the External Organization (in accordance with its remuneration protocols).

2. Appointment of Public Individuals to External Organizations

Appointments to these External Organizations are few. Examples include the *Vancouver Airport Authority*, and the *Vancouver Fraser Port Authority* (see Attachment 2).

Typically serving multi-year terms, and unlike the previous category, appointees in this category come from an “external” pool, largely comprised of individuals from the larger community. Appointments in this category usually must comply with very specific eligibility requirements. Consequently, the nomination process can be lengthy involving recruitment advertising, vetting processes, and other reviews to support the evaluation of those individuals who express an interest in serving on an external organization.

Metro Vancouver does not remunerate appointees in this category; rather, they are remunerated by the External Organization (in accordance with its remuneration protocols).

PROPOSED BOARD POLICY

The proposed Board Policy seeks to document the appointment process, taking into consideration the above two categories of External Organizations.

Proposed Policy Considerations

The proposed Board Policy confirms the following practices:

- The Board appoints all representatives to External Organizations.
- Two nomination methods will be used to recommend nominees to the Board (consistent with provisions set out in *Roberts Rules of Order*). Both are designed to foster an efficient board appointment process. The two methods are as follows:
 - a) Nominations by the Chair method will be used to recommend Board Directors and Committee Members to the first category of appointments. This method takes advantage of the Chair’s knowledge and judgement, ensures that there is balance and fairness in the process across all nominations, similar to the process undertaken for standing committee appointments.
 - b) Nomination by Committee method will be used to recommend individuals from the community to the second category of appointments. This method is more involved and will require support from staff to administer the various required activities regarding eligibility requirements, vetting processes, recruitment advertising, and so forth. For that reason, a committee to recommend a nominee is appropriate.

- While the Board alone decides on nominees to appoint, it is still permissible for the Board to undertake a Nominations from the Floor method, which is captured in the proposed Policy. In this case, voting on more than one nominee will follow a “fill in the blank” procedure where the Board will vote on each suggested nominee in the order in which they were nominated. This method follows the procedure set out in *Sturgis’ Standard Code of Parliamentary Procedure*. Each director can vote “for” or “against” each suggested nominee, casting as many votes as there are suggested names. The nominee receiving the highest weighted vote is inserted in the blank motion. With the blank in the motion filled, the Board then votes to appoint that nominee. Given the time-consuming nature of this process for the Board, its use should be limited.
- Requirements included in the Policy are as follows:
 - Limits on Terms (from existing GV031 and GV032 policies)
 - Conformity to eligibility requirements
 - Reports to the Board periodically (from existing GV006 policy)
 - Equity in nomination and appointment processes
 - Confidentiality of personal information

Existing Policies

Currently, the Board has three very short existing policies related to appointments. They are titled: *Term of Appointees/Nominees to External Boards* (GV-032), *Representatives on International Organizations* (GV-031), and *External Agency Appointee Reporting Requirements* (GV-006). These three Board Policies can be rescinded as their provisions have been rolled up and included in the proposed policy described in this report.

ALTERNATIVES

1. That the MVRD Board:
 - a) approve the *External Organization Appointment Policy* as presented in the report dated April 26, 2022, titled “External Organization Appointment Policy”; and
 - b) rescind the following Board policies: *Term of Appointees/Nominees to External Boards* (GV-032), *Representatives on International Organizations* (GV-031), and *External Agency Appointee Reporting Requirements* (GV-006).
2. That the Finance Committee refer the proposed *External Organization Appointment Policy* as presented in the report dated April 26, 2022, titled “External Organization Appointment Policy” back to staff to incorporate feedback from the Finance Committee.

FINANCIAL IMPLICATIONS

If the Board approves the proposed policy as set out in Alternative 1, there is no change to the current financial implications which relate exclusively to remuneration for participation in external organization meetings, where applicable. Remuneration associated with all such appointments is accounted for in the annual budget.

CONCLUSION

A Board Policy is proposed setting out the process for Board appointments to external organizations. It outlines the two types of organizations to which Metro Vancouver appoints, nomination methods to do so, and requirements for eligibility, term limits, equity, reporting, and privacy. It confirms the Board makes appointment decisions, and lays out the process to follow. This report seeks to clarify the appointment process by incorporating existing disparate policies. Staff recommend Alternative 1 for the Board to consider.

Attachments

1. External Organization Appointment Policy (as amended by Committee May 12, 2022)
2. List of Current External Organizations

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EXTERNAL ORGANIZATION APPOINTMENTSEffective Date: [Click or tap to enter a date.](#)Approved By: [Choose an item.](#)**Policy No. XX-XXX***(Assigned by BIS)***PURPOSE**

To establish the process and requirements for Board-appointed representatives to external organizations.

DEFINITIONS

“External Organization” means an organized body, agency, institution, authority or association in that is deemed independent or external to Metro Vancouver;

“External Representative” means an individual from the community, who is appointed to represent Metro Vancouver on an External Organization;

“Internal Representative” means an individual who is a Director on the Board, or a Committee Member on a Standing Committee, who is appointed to represent Metro Vancouver on an External Organization.

POLICY

Metro Vancouver seeks representation on a number of External Organizations in which it has an interest. In all cases, the Board appoints representatives to those External Organizations.

PROCESS**Appointment Authority**

The Board has the sole authority to appoint internal and external representatives to external organizations regardless of the nomination method used.

Nomination Methods

Various nomination methods may be used with the objective of streamlining and expediting the process to nominate recommended representatives to the Board. This in turn saves the Board’s time when making the appointments. Two nomination methods will be employed based on the type of representation.

1. Nomination Method for Internal Representative

Appointing Internal Representatives to external organizations will use the *Nominations by the Board Chair* method. In this method, the Board Chair will use knowledge and judgement from the committee appointment process (having the authority under the law to appoint to standing committees) to ensure balance and fairness in recommending nominees to the Board for its consideration in appointing representatives to external organizations. Standing committee

BOARD POLICY

appointees and internal representative appointees both generally come from the same source: board and committee members.

The Board Chair will consider the factors set out in the Requirements section of this policy, and will recommend one nominee (or more, if the external agency requires) to the Board for its consideration in appointing one or more representatives to each external organization.

2. Nomination Method for External Representative

Appointing External Representatives to external organizations will use the *Nomination by Committee* method. In this method, a standing committee – whether an existing one or a new one -- will act as a nominating body to review the eligibility and qualifications of individuals who express interest in any opportunity to serve as an external representative for Metro Vancouver.

As this method is often more involved, requiring adherence to the criteria established by the external organization, such as an advertised submission process or specific eligibility criteria, Metro Vancouver staff will administer the process and compile the material for presentation to the committee.

The Committee will consider the factors set out in the Requirements section of this policy, and will recommend one nominee (or more, if the external agency requires) to the Board for its consideration in appointing one or more representatives to each external organization.

Board Appointment Procedure

While nomination methods in this policy will produce the requisite number of recommended nominees for each appointment opportunity – to promote an efficient board appointment process - the Board at its discretion may seek alternate nominees from the floor for the Board's consideration.

At the time the matter is before the board, if any director wishes to put forward the name of an eligible nominee as an alternative to the recommended one put forward, they should immediately seek to be recognized by the Chair. In this case, the board is effectively continuing the nomination process. The Chair will issue a call for nominations from the floor, and after the third call, close the nominations.

The Board will then vote on each and every nominee in the order received. The nominee with the highest affirmative ~~weighted~~ votes will then be voted on as the appointee to the external organization (following the procedures set out in *Sturgis' Standard Code of Parliamentary Procedure*.)

REQUIREMENTS

Term of Appointment

Internal representatives are appointed annually by the Board. External representatives may be appointed for longer terms, based on the external organization's requirements, but are limited to 6 years or two consecutive terms whichever is longer.

Eligibility

An Internal Representative must be a Director or a Committee Member, and must meet any eligibility requirements of the external organization. An Internal Representative appointed to an International External Organization must be a Director.

An External Representative must meet the eligibility requirements established by the external organization.

Communication and Reporting

Each Internal Representative is required to report twice annually to the Board, in May and October, to keep the Board informed at regular intervals during the term. Each Internal Representative will provide a written summary of key current and planned activities of the External Organizations to which they have been appointed to the Corporate Officer.

Equity

Consideration of proposed nominees and appointees for Internal Representative and External Representatives will take into consideration representation based on gender, indigenous identity, cultural diversity, disability, sexual orientation, gender identity, and other under-represented groups.

Confidentiality

Personal information submitted by individuals in support of their expression of interest will be kept confidential, and will be considered in closed session of a committee or a board. The name and other relevant details may be released to the public, as appropriate.

External Organizations (as of 2022)

This list includes the External Organizations to which the Metro Vancouver Board appointed representatives in 2022, noting any specific eligibility considerations. It is divided into the two categories of appointments: appointment of (1) Board and Committee Members, and of (2) External Individuals.

1. External Organizations to which Board and Committee Members are Appointed

- Agricultural Advisory Committee
Eligibility: Consideration given to Board Director.
- Delta Heritage Airpark Management Committee
Eligibility: Consideration given to a current Parks Committee member
- E-Comm Board of Directors
Eligibility: This representative is shared with TransLink, appointed on an alternating 2 year basis. Metro Vancouver has concluded the 2020-2021 cycle; TransLink will appoint for 2022-2023 cycle.
- Fraser Basin Council
- Fraser Basin Council - Lower Mainland Flood Management Strategy Leadership
- Fraser Valley Regional Library Board
Eligibility: As per Library Act, appointee must be the Electoral Area Director, if there is only one electoral area in the regional district
- Lower Mainland Local Government Association
- Local Government Treaty Table Representative to the Katzie Negotiations
Eligibility: Consideration given to a current Indigenous Relations Committee member
- Municipal Finance Authority
Eligibility: All 10 appointees/alternates must be directors
- National Zero Waste Council
Eligibility: Consideration given to a current Zero Waste Committee member
- Ocean Watch Action Committee
Eligibility: Consideration given to a Howe Sound community
- Pacific Parklands Foundation
Eligibility: Consideration given to a current Regional Parks Committee member
- Sasamat Volunteer Fire Department Board of Trustees
- Solid Waste and Recycling Industry Advisory Committee
Eligibility: Consideration given to a current Zero Waste Committee member
- UBCM Executive
Eligibility: Must be a director. Currently representation is done by election method, as per UBCM requirements
- UBCM - Indigenous Relations Committee
Eligibility: Consideration given to a current Indigenous Relations Committee member
- Western Transportation Advisory Council
- Zero Emission Innovation Centre Board of Directors

2. External Organizations to which Individuals are Appointed

Each of these external organizations have detailed and specific eligibility criteria.

- Vancouver Airport Authority
- Vancouver Fraser Port Authority

TERM OF APPOINTEES/NOMINEES TO EXTERNAL BOARDS

Effective Date: October 24, 2014

Approved By: GVRD Board

Policy No. GV-032

PURPOSE

To set term limits for Board appointees to external boards.

POLICY

Metro Vancouver maintains delegated authority to appoint or participate in the appointment process for the Boards of three external organizations: Vancouver Airport Authority, Port Metro Vancouver Authority, and B.C. Ferry Authority. While these three Boards limit tenure in different ways, the Metro Vancouver Board considered it appropriate to implement term limits to balance a variety of factors.

The GVRD Board's nominees/appointees will serve a maximum of 6 years or 2 consecutive terms, whichever is greater, on the following external boards: Vancouver Airport Authority, Port Metro Vancouver Authority, and B.C. Ferry Authority.

Staff will notify the nominees/appointees to external boards of this Policy when the nominee/appointee has been nominated or appointed.

REPRESENTATIVES ON INTERNATIONAL ORGANIZATIONS

Effective Date: October 24, 2014

Approved By: GVRD Board

Policy No. GV-031

PURPOSE

To establish who qualifies for Board appointment to international organizations.

POLICY

Metro Vancouver engages with a variety of international organizations. Participation in those organizations provides learning for Metro Vancouver as an organization, and allows the Board to positively influence action elsewhere. As engagement at the international level is at the direction of the Board, representatives are most appropriately Directors of the Board.

Metro Vancouver's representatives on international organizations will be Directors of the Board.

EXTERNAL AGENCY APPOINTEE REPORTING REQUIREMENTS

Effective Date: October 24, 2014

Approved By: GVRD Board

Policy No. GV-006

PURPOSE

To establish a communication policy for Board Directors, appointed to external agencies, to update the Board on the activities of the agency to which the Director has been appointed.

From time to time, the Board appoints Directors to represent Metro Vancouver on a variety of external agencies. Providing a written summary of the activities of the external agency on the Board agenda will keep the Board informed at regular intervals during the term.

POLICY

Directors who have been appointed by the Board to represent Metro Vancouver on various external agencies are required to provide the Board, semi-annually in May and October, with written summaries of key current and planned activities of the external organization to which the Director has been appointed.

To: Finance Committee

From: Heather Schoemaker, General Manager, External Relations

Date: April 21, 2022 Meeting Date: May 12, 2022

Subject: **Sponsorship Policy Amendments**

RECOMMENDATION

That the MVRD Board approve the revised *Sponsorship Policy*, as presented in the report dated April 21, 2022, titled “Sponsorship Policy Amendments”.

EXECUTIVE SUMMARY

An Events and Partnerships report presented to the April 29, 2022 meeting of the Metro Vancouver Board directed staff to bring forward for the Board’s consideration proposed amendments to the Sponsorship Policy in response to Invest Vancouver’s unique role as an economic development leadership service. While Invest Vancouver would still be subject to the merits of the Sponsorship Policy, the proposed amendments to the policy would exempt Invest Vancouver from the application and review procedure for Sponsorships with a total value of more than \$1,500 and Sponsorships with a total value of \$1,500 or less, provided that Invest Vancouver partnership and collaboration efforts fall within the Invest Vancouver budget, as approved by the Metro Vancouver Board during the annual budget process.

Approved in 2015, prior to the creation of Invest Vancouver, the *Sponsorship Policy* sets out criteria for determining the circumstances under which Metro Vancouver will provide sponsorship for events and programs being hosted by external organizations or by Metro Vancouver members. The Policy does not recognize Invest Vancouver’s unique role as an economic development leadership service and limits its ability to partner and collaborate as a regular course of business with key industries and partner groups in order to be successful in promoting the region and attracting strategic investment through shared resources and collaboration.

PURPOSE

To propose amendments, for the Metro Vancouver Board’s consideration, to the *Sponsorship Policy* in order to clarify that the application and review procedure for Sponsorships with a total value of more than \$1,500 and Sponsorships with a total value of \$1,500 or less do not apply to partnership and collaboration efforts undertaken by Metro Vancouver pursuant to Invest Vancouver, provided that such partnership and collaboration efforts fall within the Invest Vancouver budget, as approved by the Metro Vancouver Board during the annual budget process and as approved subject to the *Procurement and Real Property Contracting Authority Policy*.

BACKGROUND

The *Sponsorship Policy* sets out criteria for determining the circumstances under which Metro Vancouver will provide sponsorship for events and programs being hosted by external organizations or by Metro Vancouver members.

The Policy, approved in 2015 before the creation of Invest Vancouver, contains criteria that do not recognize the mandate of the Invest Vancouver service and the unique role the service will have in promoting the Metro Vancouver region to achieve its goal of attracting new strategic investment into the region.

SPONSORSHIP POLICY

The criteria outlined in the existing policy applies to the provision of cash or in-kind contributions by Metro Vancouver in exchange for a defined set of benefits for events arising from time to time. The Policy allows for the support of events and programs that clearly advance Metro Vancouver's corporate goals and objectives, relate directly to one or more of Metro Vancouver's statutory functions, and provide a clear, positive community benefit to the Metro Vancouver region overall.

The Policy also specifies criteria that a sponsorship proposal must meet in order to be considered including that the event/program be organized and/or supported by a registered charitable organization or not-for-profit entity and that Metro Vancouver will not consider proposals that primarily promote a private or commercial interest.

Organizations seeking a sponsorship with a total value greater than \$1,500 must submit their request to Metro Vancouver in writing at least three months in advance of the event/program for which sponsorship is being requested followed by a staff report and recommendation to the relevant Metro Vancouver Board for its consideration.

Invest Vancouver's Activities

The nature of Invest Vancouver's functions and the activities required to achieve the goal of attracting new strategic investment into the region necessitates a more flexible structure for collaboration with key partners to support key activities that will maximize impact and create value for the region. The language in the existing sponsorship policy would restrict the service's ability to respond in a timely manner and participate in events and initiatives that are common for investment attraction, and that are set out as part of the Invest Vancouver Annual Plan. For further information, see the Events and Partnerships Report dated March 17, 2022, in Attachment 1.

Proposed Policy Amendments

For consideration by the Board are amendments to the *Sponsorship Policy* to state the application and review procedure for Sponsorships with a total value of more than \$1,500 and Sponsorships with a total value of \$1,500 or less do not apply to partnership and collaboration efforts undertaken by Metro Vancouver pursuant to Invest Vancouver, provided that such partnership and collaboration efforts fall within the Invest Vancouver budget. The proposed amendments to the policy are provided in Attachment 2.

ALTERNATIVES

1. That the MVRD Board approve the revised *Sponsorship Policy*, as presented in the report dated April 21, 2022, titled "Sponsorship Policy Amendments".

2. That the Finance Committee receive for information the report dated April 21, 2022, titled “Sponsorship Policy Amendments” and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

Approval of Sponsorship program budgets, with the exception of Invest Vancouver, remains through the applicable Metro Vancouver Board following review by the standing committee with responsibility for the related budget.

Partnership and collaboration efforts, events and programs undertaken by Invest Vancouver will fall within the budget for the Industry Partnership Program, as approved by the Metro Vancouver Board during the annual budget process. Such partnership and sponsorship contracts will be approved subject to the Procurement and Real Property Contracting Authority Policy.

CONCLUSION

The *Sponsorship Policy* sets out criteria for determining the circumstances under which Metro Vancouver will provide sponsorship for events and programs being hosted by external organizations or by Metro Vancouver members. The Policy, approved in 2015 before the creation of Invest Vancouver, contains criteria that do not recognize the mandate of the service and the unique role the service will have in promoting the Metro Vancouver region to achieve its goal of attracting new strategic investment into the region.

Given that events and partnerships are a routine part of investment attraction and economic development and that the annual budgeted amounts for partnership and collaborative efforts of Invest Vancouver are approved by the Metro Vancouver Board, staff recommend, Alternative 1, an amendment to the *Sponsorship Policy* to ensure Invest Vancouver is able to effectively undertake its role of attracting strategic investment in the region.

Attachments:

1. *Events and Partnerships* report dated March 17, 2022
2. Proposed *Sponsorship Policy* amendments

45526619

To: Invest Vancouver Management Board

From: Katie Fitzmaurice, Vice President of Collaboration, Invest Vancouver

Date: March 17, 2022 Meeting Date: April 20, 2022

Subject: **Events and Partnerships Report**

RECOMMENDATION

That the MVRD Board direct staff to bring proposed amendments to the *Sponsorship Policy* (Policy No. FN-008) accounting for Invest Vancouver's unique role as an economic development leadership service to the MVRD Board for consideration.

EXECUTIVE SUMMARY

Invest Vancouver, the Metro Vancouver region's economic development leadership service, must collaborate with a variety of entities in order to advance economic development priorities of regional significance. Invest Vancouver is routinely approached to participate in various engagement opportunities and has identified additional opportunities for collaboration.

At present, the *Sponsorship Policy* requires Board approval for sponsorship requests above \$1,500 and specifies criteria that a sponsorship proposal must meet in order to be considered including that the organization be organized and/or supported by a registered charitable organization or not-for-profit entity that that Metro Vancouver will not consider proposals that primarily promote a private or commercial interest.

Given that events and partnerships are a routine part of economic development and that the annual budgeted amounts for partnership and collaborative efforts of Invest Vancouver are approved by the Metro Vancouver Board, staff recommend amending the *Sponsorship Policy* to consider the unique needs of Invest Vancouver.

PURPOSE

To provide the Metro Vancouver Management Board with the rationale for amending the Metro Vancouver Regional District *Sponsorship Policy* (Policy No. FN-008) to reflect the unique role of Invest Vancouver as an economic development leadership service.

BACKGROUND

As set out in the Invest Vancouver Annual Plan, Invest Vancouver's role is to be a thought leader on economic development issues of regional importance, a regional convener, and a voice for the region on a global stage (page 11). In order to fulfil this role and our mission to position the region for success in a rapidly evolving global economy, Invest Vancouver must collaborate with other organizations and entities. Invest Vancouver is routinely approached to participate in various engagement opportunities and has also proactively identified additional potential opportunities for collaboration. Accordingly, a key objective of the 2022 Annual Plan is to "develop and implement an industry partnership plan" (page 18).

This report will address the role of events and partnerships as it relates to Invest Vancouver and the rationale for an amendment to the Metro Vancouver Regional District *Sponsorship Policy* to enable Invest Vancouver to effectively and ethnically engage with external organizations in sponsorship activities.

THE ROLE OF EVENTS AND PARTNERSHIPS

There are a significant number of organizations and entities within Canada involved in economic development activities or that have activities and initiatives accretive to the mission and vision of Invest Vancouver. In order to be most effective Invest Vancouver must collaborate with other public and private sector organizations, including with respect to events, partnerships and other engagements such as sponsorship, as a part of doing business.

In order to advance a strategic events and partnership approach, Invest Vancouver developed an events and partnership framework, allocated and received budget approval for partnership and event activities, and advanced a report outlining requesting changes to the current Metro Vancouver Regional District Sponsorship Policy.

Regarding the events and partnership framework, Invest Vancouver identified core target audiences and five key events and partnership goals. Events and partnerships should achieve the following:

1. Enhance our region's global competitiveness;
2. Facilitate business investment and expansion within the region;
3. Promote industry advantages and opportunities to an international audience;
4. Position communities & people to prosper amidst a rapidly changing economy; and,
5. Inform economic development decision-making with comprehensive intelligence.

This framework then informed the creation of internal processes to ensure proposed engagements are vetted, align with the goals below, are balanced across key industry clusters, and have appropriate key performance indicators and calls-to-action.

Based on the research and activities involved in establishing the events and partnership framework, Invest Vancouver sought and received budget approval for \$250,000 to advance partnership and events. Given the importance of collaborating with both public and private sector entities to amplify work in progress and mitigate duplication of resources, the 2022 operating budget identified "execute collaboration and event opportunities for the purposes of attraction strategic investment" as a key action and stated "the number of partnerships developed and sustained to further investment attraction goals and support key industry clusters" is a key performance indicator.

Prior to the budget approval process, Invest Vancouver put forward a report titled "Motivate Vancouver 2022", presented to the Regional Economic Prosperity Management Board September 1, 2021, which stated that staff may bring forward proposed changes to the Sponsorship Policy that consider the needs of the Regional Economic Prosperity Service as it relates to attracting strategic investment in the Metro Vancouver region.

Metro Vancouver's Sponsorship Policy

Under Metro Vancouver's *Sponsorship Policy*, Board approval is required for sponsorship requests above \$1,500. The policy specifies criteria that a sponsorship proposal must meet in order to be considered including that the organization be organized and/or supported by a registered charitable organization or not-for-profit entity that that Metro Vancouver will not consider proposals that primarily promote a private or commercial interest.

Given that partnership, events, and sponsorship are a routine part of business as it relates to economic development and that the annual budgeted amounts for partnership and collaborative efforts are approved by the Metro Vancouver Board, staff recommend amending the *Sponsorship Policy* to consider the needs of Invest Vancouver as it relates to economic development issues of regional importance such as attracting strategic investment in the Metro Vancouver region.

ALTERNATIVES

1. That the MVRD Board direct staff to bring proposed amendments to the *Sponsorship Policy* (Policy No. FN-008) accounting for Invest Vancouver's unique role as an economic development leadership service to the MVRD Board for consideration.
2. That the MVRD Board receive for information the report dated: March 17, 2022 and titled: "Events and Partnerships Report", and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

If approved, the monies approved in the 2022 budget for Invest Vancouver partnership and sponsorship activities (\$250,000) will be allocated subject to the *Sponsorship Policy*. Such partnership and sponsorship contracts will be approved subject to the *Procurement and Real Property Contracting Authority Policy*.

CONCLUSION

Invest Vancouver, the Metro Vancouver region's economic development leadership service, must collaborate with a variety of public and private sector entities in order to advance economic development priorities of regional significance. Invest Vancouver is routinely approached to participate in various engagement opportunities and has also proactively identified additional opportunities for collaboration that will further enable Invest Vancouver to advance its mission to position the region for success in a rapidly evolving global economy.

At present, the *Sponsorship Policy* requires Board approval for sponsorship requests above \$1,500. Additionally, the policy specifies criteria that a sponsorship proposal must meet in order to be considered including that the organization be organized and/or supported by a registered charitable organization or not-for-profit entity that that Metro Vancouver will not consider proposals that primarily promote a private or commercial interest.

Given that events and partnerships are a routine part of economic development and that the annual budgeted amounts for partnership and collaborative efforts of Invest Vancouver are approved by the Metro Vancouver Board, staff recommend amending the *Sponsorship Policy* to consider the unique

needs of Invest Vancouver as it relates to economic development issues of regional importance such as attracting strategic investment in the Metro Vancouver region.

Attachments

1. "Sponsorship Policy (Policy No. FN-008)", July 3, 2015 (revised April 28, 2017)

References

1. Invest Vancouver 2022 Annual Plan
(https://investvancouver.ca/Documents/Invest_Vancouver_2022_Annual_Plan.pdf)
2. [MV Board Budget Workshop Agenda Package - October 20, 2021](#)

48965216

SPONSORSHIP

Effective Date: July 3, 2015 (revised April 28, 2017)

Approved By: MVRD Board

Policy No. FN-008

PURPOSE

This Policy provides specific criteria for determining the circumstances under which Metro Vancouver sponsorship support, either direct or in-kind, is appropriate for events and programs being hosted by external organizations or by Metro Vancouver's members.

DEFINITIONS

"Metro Vancouver" refers to any of the four legal entities that comprise the organization: the MVRD, GVS&DD, GVWD, and MVHC;

"Sponsorship" refers to the provision of cash or in-kind contributions by Metro Vancouver in exchange for a defined set of benefits, such as logo placement, speaking opportunities by Metro Vancouver directors or senior staff, advertising in event publications or on event websites, etc., for any local or regional events; and

"In-kind contributions" are specific contributions that Metro Vancouver may provide in lieu of a cash contribution to an event or program, including:

- a) Goods, such as: supplies (printed promotional materials); use of Metro Vancouver facilities (waived fees for hosting events at Metro Vancouver venues/facilities); use of Metro Vancouver proprietary supplies or materials (e.g., water for event participants supplied via the Metro Vancouver water wagon) and food/catering; and
- b) Services, such as: staff support (assignment of Metro Vancouver staff to provide expert advice or professional services in support of the sponsored event or program, e.g., event web casting/live streaming, etc.).

POLICY

Metro Vancouver is periodically presented with opportunities to build awareness of Metro Vancouver and the Metro Vancouver brand *Services and Solutions for a Livable Region* and to showcase specific Metro Vancouver projects, programs and initiatives and those of its members through sponsorship of local and regional events. This policy is intended to provide clear guidelines as to what sort of sponsorship opportunities will be considered and how they will be given consideration.

Overall, Metro Vancouver seeks to support events and programs that achieve all of the following broad objectives:

BOARD POLICY

1. Clearly advance Metro Vancouver's corporate goals and objectives;
2. Relate directly to one or more of Metro Vancouver's statutory functions (Metro Vancouver Regional District (MVRD), Greater Vancouver Sewerage & Drainage District (GVS&DD), Greater Vancouver Water District (GVWD), Metro Vancouver Housing Corporation (MVHC));
3. Provide a clear, positive community benefit to the Metro Vancouver region overall.

This Policy applies to all sponsorship proposals regardless of their cost or the type of contribution (i.e., cash or any in-kind contributions), although a separate review procedure has been put in place for sponsorships with a total value of more than \$1,500. In addition to the eligibility criteria set out below, sponsorship opportunities that promote Metro Vancouver's brand, projects, programs and initiatives will be considered as providing higher value to Metro Vancouver, as will sponsorship opportunities that involve or promote four or more Metro Vancouver members or that have a prominent connection to Metro Vancouver or member facilities.

This Policy does not apply to grants or the provision of other forms of assistance.

Eligibility Criteria

To be considered, a sponsorship proposal must meet ALL of the following criteria:

1. It must offer specific benefits to Metro Vancouver or its members and must clearly outline the specific roles and responsibilities of each party in a formal agreement.
2. The event or program for which sponsorship is being sought must:
 - a) Have an overall community objective and purpose that is consistent with Metro Vancouver's vision, mission and roles;
 - b) Have operating guidelines and procedures that are consistent with *Metro Vancouver's Sustainability Framework and Board Strategic Plan*;
 - c) Be organized and/or supported by a registered charitable organization or not-for-profit entity.
3. Metro Vancouver must receive benefits having a fair value that is consistent with the cost of the sponsorship to be provided.
4. Metro Vancouver must receive appropriate acknowledgement of its contribution to the event or program being sponsored.

Sponsorship opportunities that involve or promote four or more Metro Vancouver members will be considered as providing higher value to Metro Vancouver.

Metro Vancouver will *not* consider any sponsorship proposals for events or programs that:

1. Primarily promote a private or commercial interest;
2. Promote or support political or religious organizations;

3. Exclude or marginalize minority community groups;
4. Pose potential environmental hazards; and
5. Involve the taking of unnecessary risks, or that put the general public at risk.

Notwithstanding any of the criteria or procedures outlined in this Policy, Metro Vancouver has no obligation to provide sponsorship and may, at its sole discretion, decline to sponsor any event or program for any reason, including, without limiting the generality of the foregoing:

1. The stated purpose of the event or program for which sponsorship is being sought;
2. Metro Vancouver budgetary or financial considerations at the time of the sponsorship request; and
3. The projected reach of the event or program and its visibility in communities that make up the Metro Vancouver region.

Sponsorship Budgets

The annual budgets for the Metro Vancouver sponsorship program are included within the individual department budgets and are considered annually by the designated Standing Committee that has oversight of those budgets. Final approval of sponsorship program budgets shall be through the applicable Board following review by the standing committee with responsibility for the general government budget.

APPLICATION AND REVIEW PROCEDURE

1. Funding Requests Greater than \$1,500

Organizations seeking a sponsorship with a total value greater than \$1,500 must submit their request to Metro Vancouver in writing at least three months in advance of the event/program for which sponsorship is being requested, and must provide the following details with respect to the event or program for which sponsorship is being sought:

- a) The official name of the event or program;
- b) The date(s) and times(s) of the event or program, as applicable;
- c) A general description of the event or program, including its overall objective(s);
- d) The overall budget for the event or program and the total cash or cash equivalent amount of sponsorship being sought;
- e) An accounting of how event organizers plan to allocate the cash or in-kind contributions provided by Metro Vancouver should the sponsorship application be approved;
- f) A listing of other stakeholders that will be approached to provide sponsorships for the event or program;
- g) A listing of the specific benefits that will accrue to Metro Vancouver should it proceed with the sponsorship being sought;

BOARD POLICY

- h) A detailed description of how and to what degree Metro Vancouver's members will be involved in the event or program; and
- i) A description of the anticipated outcomes of the event or program and how this will be measured and reported.

Notwithstanding the prescribed timeline outlined in the application process above, the Metro Vancouver Board of Directors may, at its sole discretion, waive this requirement for sponsorship opportunities that meet the objectives of this Policy and that meet the eligibility requirements described in Section 2.

For proposals seeking sponsorship with a total value greater than \$1,500, Metro Vancouver staff will prepare a Committee report for consideration by the appropriate standing committee (including a recommendation on the proposal), which will assess the proposal based on the criteria included in this Policy. If endorsed by the standing committee, the report and attached sponsorship proposal will be forwarded to the relevant Metro Vancouver Board for its consideration.

2. Funding Requests For \$1,500 or Less

Organizations seeking a sponsorship with a total value of \$1,500 or less must submit their request to Metro Vancouver in writing at least two months in advance of the event/program for which sponsorship is being requested, and must provide the following details with respect to the event or program for which sponsorship is being sought:

- a) The official name of the event or program;
- b) The date(s) and times(s) of the event/program, as applicable;
- c) A general description of the event or program, including its overall objective(s);
- d) The overall budget for the event or program and the total cash or cash equivalent amount of sponsorship being sought;
- e) A listing of the specific benefits that will accrue to Metro Vancouver should it proceed with the sponsorship being sought.

For proposals seeking sponsorship with a total value of \$1,500 or less, the proposal will initially be assessed by the applicable Metro Vancouver department based on the criteria included in this Policy and will be reviewed by the department General Manager/Senior Director and the CFO/GM of Financial Services in accordance with the approved sponsorship program budget. The sponsorship program request may either be approved or denied, or may be referred to the appropriate Metro Vancouver standing committee for further consideration.

3. Multi-Year Funding Requests Over \$500

Organizations seeking sponsorship with a total value over \$500 for events which occur in consecutive years or for events which occur twice over a three year period will not be considered for funding under the *Sponsorship Policy*. Organizations who are seeking multi-year funding for annual events must submit their requests in writing to the appropriate Board for consideration of a multi-year *Contribution Agreement*.

To be considered by the Board, multi-year funding requests must include the following information:

- i. Term of funding requested
- ii. Annual funding amount requested
- iii. Organization's funding contribution and/or fundraised by the applicant
- iv. Funding provided by other sources
- v. Annual budget for the event

Description of event and how it aligns with Metro Vancouver's goals as set out in the Eligibility Criteria of the *Sponsorship Policy*.

SPONSORSHIP

Effective Date: July 3, 2015 (revised April 28, 2017); ~~May 12, 2022~~

Approved By: MVRD Board

Policy No. FN-008

PURPOSE

This Policy provides specific criteria for determining the circumstances under which Metro Vancouver ~~sponsorship~~ Sponsorship support, either direct or in-kind, is appropriate for events and programs being hosted by external organizations or by Metro Vancouver's members.

DEFINITIONS

"Metro Vancouver" refers to any of the four legal entities that comprise the organization: the MVRD, GVS&DD, GVWD, and MVHC;

"Sponsorship" refers to the provision of cash or in-kind contributions by Metro Vancouver in exchange for a defined set of benefits, such as logo placement, speaking opportunities by Metro Vancouver directors or senior staff, advertising in event publications or on event websites, etc., for any local ~~or~~ regional, national or international events or programs; ~~and~~

"In-kind contributions" are specific contributions that Metro Vancouver may provide in lieu of a cash contribution to an event or program, including:

- a) Goods, such as: supplies (printed promotional materials); use of Metro Vancouver facilities (waived fees for hosting events at Metro Vancouver venues/facilities); use of Metro Vancouver proprietary supplies or materials (e.g., water for event participants supplied via the Metro Vancouver water wagon) and food/catering; and
- b) Services, such as: staff support (assignment of Metro Vancouver staff to provide expert advice or professional services in support of the sponsored event or program, e.g., event web casting/live streaming, etc.); ~~and~~

"Invest Vancouver" refers to Metro Vancouver's economic development leadership service, formerly called the "Regional Economic Prosperity Service", with the goal of amplifying economic opportunity and prosperity for all the residents of the region.

POLICY

Metro Vancouver is periodically presented with opportunities to build awareness of Metro Vancouver and the Metro Vancouver brand *Services and Solutions for a Livable Region* and to showcase specific Metro Vancouver projects, programs and initiatives and those of its members through ~~sponsorship~~ Sponsorship of local, ~~and~~ regional, national or international events or programs. This policy is

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intended to provide clear guidelines as to what sort of ~~sponsorship~~ Sponsorship opportunities will be considered and how they will be given consideration.

Overall, Metro Vancouver seeks to support events and programs that achieve all of the following broad objectives:

1. Clearly advance Metro Vancouver's corporate goals and objectives;
2. Relate directly to one or more of Metro Vancouver's statutory functions (Metro Vancouver Regional District (MVRD), Greater Vancouver Sewerage & Drainage District (GVS&DD), Greater Vancouver Water District (GVWD), and Metro Vancouver Housing Corporation (MVHC)); and
3. Provide a clear, positive community benefit to the Metro Vancouver region overall.

This Policy applies to all ~~sponsorship~~ Sponsorship proposals regardless of their cost or the type of contribution (i.e., cash or any in-kind contributions), although a separate review procedure has been put in place for ~~sponsorships~~ Sponsorships with a total value of more than \$1,500. Notwithstanding the foregoing, the application and review procedure for Sponsorships with a total value of more than \$1,500 and Sponsorships with a total value of \$1,500 or less do not apply to partnership and collaboration efforts undertaken by Metro Vancouver pursuant to Invest Vancouver, provided that such partnership and collaboration efforts fall within the Invest Vancouver budget.

In addition to the eligibility criteria set out below, ~~sponsorship~~ Sponsorship opportunities that promote Metro Vancouver's brand, projects, programs and initiatives will be considered as providing higher value to Metro Vancouver, as will ~~sponsorship~~ Sponsorship opportunities that involve or promote four or more Metro Vancouver members or that have a prominent connection to Metro Vancouver or member facilities.

This Policy does not apply to grants or the provision of other forms of assistance.

Eligibility Criteria

To be considered, a ~~sponsorship~~ Sponsorship proposal must meet ALL of the following criteria:

1. It must offer specific benefits to Metro Vancouver or its members and must clearly outline the specific roles and responsibilities of each party in a formal agreement.
2. The event or program for which ~~sponsorship~~ Sponsorship is being sought must:
 - a) Have an overall community objective and purpose that is consistent with Metro Vancouver's vision, mission and roles;
 - b) Have operating guidelines and procedures that are consistent with *Metro Vancouver's Sustainability Framework and Board Strategic Plan*; and

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- c) Be organized and/or supported by a registered charitable organization or not-for-profit entity, or a Crown corporation, agency, or other public body or government institution.
3. Metro Vancouver must receive benefits having a fair value that is consistent with the cost of the ~~sponsorship~~ Sponsorship to be provided.
4. Metro Vancouver must receive appropriate acknowledgement of its contribution to the event or program being sponsored.

Sponsorship opportunities that involve or promote four or more Metro Vancouver members will be considered as providing higher value to Metro Vancouver.

Metro Vancouver will *not* consider any ~~sponsorship~~ Sponsorship proposals for events or programs that:

1. Primarily promote a private or commercial interest;
2. Promote or support political or religious organizations;
3. Exclude or marginalize minority community groups;
4. Pose potential environmental hazards; ~~and/or~~
5. Involve the taking of unnecessary risks, or that put the general public at risk.

Notwithstanding any of the criteria or procedures outlined in this Policy, Metro Vancouver has no obligation to provide ~~sponsorship~~ Sponsorship and may, at its sole discretion, decline to sponsor any event or program for any reason, including, without limiting the generality of the foregoing:

1. The stated purpose of the event or program for which ~~sponsorship~~ Sponsorship is being sought;
2. Metro Vancouver budgetary or financial considerations at the time of the ~~sponsorship~~ Sponsorship request; and
3. The projected reach of the event or program and its visibility in communities that make up the Metro Vancouver region.

Sponsorship Budgets

The annual budgets for the Metro Vancouver ~~sponsorship~~ Sponsorship program are included within the individual department budgets and are considered annually by the designated ~~Standing-standing Committee-committee~~ that has oversight of those budgets. Final approval of ~~sponsorship~~ Sponsorship program budgets shall be through the applicable Metro Vancouver Board following review by the ~~standing-committee~~ with responsibility for the general government budget.

APPLICATION AND REVIEW PROCEDURE

1. Funding Requests Greater than \$1,500

Organizations seeking a ~~sponsorship~~ Sponsorship with a total value greater than \$1,500 must submit their request to Metro Vancouver in writing at least three months in advance of the event

BOARD POLICY

~~or /~~program for which ~~sponsorship-Sponsorship~~ is being requested, and must provide the following details with respect to the event or program for which ~~sponsorship-Sponsorship~~ is being sought:

- a) The official name of the event or program;
- b) The date(s) and times(s) of the event or program, as applicable;
- c) A general description of the event or program, including its overall objective(s);
- d) The overall budget for the event or program and the total cash or cash equivalent amount of ~~sponsorship-Sponsorship~~ being sought;
- e) An accounting of how event organizers plan to allocate the cash or in-kind contributions provided by Metro Vancouver should the ~~sponsorship-Sponsorship~~ application be approved;
- f) A listing of other stakeholders that will be approached to provide sponsorships for the event or program;
- g) A listing of the specific benefits that will accrue to Metro Vancouver should it proceed with the ~~sponsorship-Sponsorship~~ being sought;
- h) A detailed description of how and to what degree Metro Vancouver's members will be involved in the event or program; and
- i) A description of the anticipated outcomes of the event or program and how this will be measured and reported.

Notwithstanding the prescribed timeline outlined in the application process above, the ~~applicable~~ Metro Vancouver Board ~~of Directors~~ may, at its sole discretion, waive this requirement for ~~sponsorship-Sponsorship~~ opportunities that meet the objectives of this Policy and that meet the ~~eligibility-Eligibility requirements-Criteria~~ described ~~in Section 2 above~~.

For proposals seeking ~~sponsorship-Sponsorship~~ with a total value ~~greater than \$1,500~~, Metro Vancouver staff will prepare a Committee report for consideration by the appropriate standing committee (including a recommendation on the proposal), which will assess the proposal based on the criteria included in this Policy. If endorsed by the standing committee, the report and attached ~~sponsorship-Sponsorship~~ proposal will be forwarded to the relevant Metro Vancouver Board for its consideration.

2. Funding Requests For \$1,500 or Less

Organizations seeking a ~~sponsorship-Sponsorship~~ with a total value of ~~\$1,500 or less~~ must submit their request to Metro Vancouver in writing at least two months in advance of the event ~~/ or~~ program for which ~~sponsorship-Sponsorship~~ is being requested, and must provide the following details with respect to the event or program for which ~~sponsorship-Sponsorship~~ is being sought:

BOARD POLICY

- a) The official name of the event or program;
- b) The date(s) and times(s) of the event or /program, as applicable;
- c) A general description of the event or program, including its overall objective(s);
- d) The overall budget for the event or program and the total cash or cash equivalent amount of ~~sponsorship~~ Sponsorship being sought; and
- e) A listing of the specific benefits that will accrue to Metro Vancouver should it proceed with the ~~sponsorship~~ Sponsorship being sought.

For proposals seeking ~~sponsorship~~ Sponsorship with a total value of \$1,500 or less, the proposal will initially be assessed by the applicable Metro Vancouver department based on the criteria included in this Policy and will be reviewed by the department General Manager/Senior Director and the CFO/GM of Financial Services in accordance with the approved ~~sponsorship~~ Sponsorship program budget. The ~~sponsorship~~ Sponsorship program request may either be approved or denied, or may be referred to the appropriate Metro Vancouver standing committee for further consideration.

3. Multi-Year Funding Requests Over \$500

Organizations seeking ~~sponsorship~~ Sponsorship with a total value over \$500 for events which occur in consecutive years or for events which occur twice over a three year period will not be considered for funding under the Sponsorship Policy. Organizations who are seeking multi-year funding for annual events must submit their requests in writing to the appropriate Metro Vancouver Board for consideration of a multi-year *Contribution Agreement*.

To be considered by the applicable Metro Vancouver Board, multi-year funding requests must include the following information:

- a) Term of funding requested;
- b) Annual funding amount requested;
- c) Organization's funding contribution and/or fundraised by the applicant;
- d) Funding provided by other sources;
- e) Annual budget for the event; and
- e)f) Description of the event and how it aligns with Metro Vancouver's goals as set out in the Eligibility Criteria.

To: Finance Committee

From: Roy Moulder, Director, Procurement, Procurement and Real Estate Services
Shuh Chan, Division Manager, Fleet Services, Human Resources and Corporate Services

Date: April 27, 2022 Meeting Date: May 12, 2022

Subject: **Award of Contract Resulting from Request for Proposal (RFP) No. 21-266: Supply and Delivery of Light and Medium Duty Vehicles**

RECOMMENDATION

That the MVRD Board:

- a) approve award of a five (5) year term contract in an estimated amount of \$6,500,000 (exclusive of taxes) to Metro Motors Ltd. resulting from Request for Proposal (RFP) No. 21-266: Supply and Delivery of Light and Medium Duty Vehicles, subject to final review by the Chief Administrative Officer; and
- b) authorize the Chief Administrative Officer to execute the required documentation, once the Chief Administrative Officer is satisfied the award should proceed.

EXECUTIVE SUMMARY

Staff undertook a competitive process for the supply of light and medium duty vehicles. Only one submission was received by close of the competition. Metro Motors Ltd. addressed all of the present and future requirements identified within Request for Proposal (RFP) No. 21-266.

The RFP is one mechanism that will be used to electrify the fleet. It was structured to inform the marketplace of Metro Vancouver's commitment to the reduction of greenhouse gas (GHG) emissions and solicited information on zero emission vehicles and other green technology options. Metro Motors Ltd. provides access to the only major manufacturer, Ford Motor Company, able to offer road-ready battery electric vehicle pick-up trucks and panel vans. As the market introduces more innovative electric models in a wider range of vehicle configurations, Fleet Services will be deploying more and more zero emission vehicles to deliver essential services to the region.

In addition, the award of a five-year term contract allows for the standardization of the fleet to one manufacturer. The consolidation of vehicle procurements will provide multiple benefits through leveraging volume spends, reducing parts inventory and specialty tooling requirements, and standardizing mechanic training and operator skills development.

Staff recommend that the MVRD Board approve award and authorize the Chief Administrative Officer to execute the required documentation with Metro Motors Ltd. for an estimated value of \$6,500,000 (exclusive of taxes), over the initial five (5) year term.

PURPOSE

This report is to advise the MVRD Board of the results of RFP No. 21-266: Supply and Delivery of Light and Medium Duty Vehicles and to recommend award of a contract in an estimated amount of \$6,500,000 (exclusive of taxes) to Metro Motors Ltd.

BACKGROUND

Pursuant to the *MVRD Officers and Delegation Bylaw No. 1208, 2014* (Bylaw) and the *Procurement and Real Property Contracting Authority Policy* (Policy), procurement contracts that exceed a value of \$5 million require the approval of the Board of Directors.

VEHICLE ACQUISITION PROGRAM

Metro Vancouver operates a fleet of 850 units which includes on-road vehicles, heavy duty equipment, off-road vehicles, off-road equipment and water craft. Approximately 340 (40%) light and medium duty work vehicles fall within the scope of this contract.

The benefits of fleet electrification as well as the industry best practice of fleet standardization were main objectives of this competitive process.

Fleet Electrification

Electrifying the fleet is a key initiative for Metro Vancouver to reduce fleet greenhouse gas (GHG) emissions and meet Climate 2050 and Clean Air Plan targets. As the market introduces more innovative electric models in a wider range of vehicle configurations, Fleet Services will be deploying more and more zero emission vehicles to deliver essential services to the region.

The product offering available from Metro Motors Ltd. (Metro Motors) includes battery electric vehicles (BEV), plug-in hybrid vehicles (PHEV), and hybrid vehicles. In addition, Metro Motors provides access to the only major manufacturer able to offer road-ready BEV pick-up trucks and panel vans.

Benefits to standardization:

Standardization results in reduced lifecycle costs and gains in operational productivity. Strategic sourcing, through long term supply agreements, fosters relationships with vendors to provide additional value-added service, which is especially important in today's fleet and vehicle market. Supply chain challenges and innovations in green technology such as electric vehicles demand the fostering of long term vendor relationships.

Some benefits can be expressed as follows:

Financial savings can be realized on:

- capital bulk buy purchases by leveraging spends
- reduced administration costs with a long term contract
- reduced maintenance costs attributed to mechanic familiarization to quicken diagnostic repairs, and a simplified parts inventory

Fleet Operational benefits:

- efficiencies with standardized account, vendor, and contract management
- reduce the number of tooling, diagnostic tools and subscriptions
- build expert knowledge and develop relationship with one vendor for;
 - security of supply and production information
 - product development and early access to information on new models, especially with regards to new technology in Battery Electric Vehicles (BEV) and Plug-in Hybrid Electric Vehicles (PHEV)
 - product specific training, as well as troubleshooting, warranty, parts and service support

Competition Process

RFP No. 21-266 was issued to solicit responses for the supply and delivery of light and medium duty vehicles. Multiple firms downloaded the opportunity, with only two viable providers potentially meeting the needs as expressed within the opportunity. At time of competition close, only one vendor submitted a proposal. The sole proponent, Metro Motors, covered the entire requirements of the scope and offered pricing for an initial purchase in today's environment, with future purchases based on a percentage reduction off of the manufacturer's suggested retail price (MSRP).

The competition identified that the pricing model would hold true through the initial five (5) year and subsequent additional two (2) optional one-year extensions of the contract and that each Purchase Order (PO) and related terms and conditions would apply. Actual pricing over the life of the contract will be determined on MSRP at the time of purchase. This is not unusual for the industry and consistent with other public sector vehicle supply contracts. As such the estimated value of the contract is based on 2022 pricing provided in Metro Motor's proposal.

As identified in the RFP document, the initial term of the contract will be for 5 years with the option for two (2) 1-year extensions on mutual agreement. Should the extensions be exercised the estimated total value of the contract would be \$11,300,000 (exclusive of taxes). Subsequent extensions will be authorized as per contracting thresholds set out in the Policy.

ALTERNATIVES

1. That the MVRD Board:
 - a) approve award of a five (5) year term contract in an estimated amount of \$6,500,000 (exclusive of taxes) to Metro Motors Ltd. resulting from Request for Proposal (RFP) No. 21-266: Supply and Delivery of Light and Medium Duty Vehicles, subject to final review by the Chief Administrative Officer; and
 - b) authorize the Chief Administrative Officer to execute the required documentation once the Chief Administrative Officer is satisfied the award should proceed.
2. That the MVRD board terminate RFP No. 21-266: Supply and Delivery of Light and Medium Duty Vehicles and direct staff to report back to the MVRD Board with options for an alternate course of action.

FINANCIAL IMPLICATIONS

If the Board approves Alternative 1, a contract will be awarded to Metro Motors Ltd. for a 5-year term with an estimated value of \$6,500,000 (exclusive of taxes) to supply and deliver light and medium duty vehicles on an “as and when needed” basis. Purchases will be made throughout the term of the award based on the approved annual capital budget.

CONCLUSION

Request for Proposal No. 21-266 was issued for the supply and delivery of light and medium duty vehicles. One vendor submitted a proposal and pricing to meet the Corporation’s present and future demands. Based on requirements identified within the RFP an anticipated spend, over the initial 5-year term of the agreement, is estimated at \$6,500,000 (excluding taxes). Base on evaluation of the sole submission received, it is recommended that the Board authorize the Chief Administrative Officer to award and execute the required documentation to Metro Motors Ltd.

To: Climate Action Committee

From: Erik Blair, Senior Planner
Julie Saxton, Air Quality Planner
Parks and Environment Department

Date: April 20, 2022 Meeting Date: May 13, 2022

Subject: **Initial Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver**

RECOMMENDATION

That the MVRD Board authorize staff to proceed with an initial phase of engagement to develop an approach for managing greenhouse gas emissions from large buildings as described in the report dated April 20, 2022, titled “Initial Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver”.

EXECUTIVE SUMMARY

This report seeks authorization from the MVRD Board to proceed with initial engagement on potential approaches for reducing greenhouse gas emissions from existing large buildings. Buildings emit one quarter of regional GHG emissions, primarily through burning natural gas for space and water heating. The *Clean Air Plan* and *Climate 2050 Buildings Roadmap*, both approved by the Board in 2021, call for “greenhouse gas performance requirements for existing large buildings” as a pivotal GHG reduction measure to achieve regional climate targets, which would also reduce health-harming air emissions. Such requirements would address a current policy gap related to emissions from existing large buildings and complement provincial and local government action. Given the longevity of building stock in the region and the need for transparency to best allow building owners to plan for emission reductions and improvements, it is recognized that comprehensive research and engagement will be critical for successful program design and implementation. Accordingly, staff believe early signaling of long term future emission limits for GHG and other air emissions to building owners will allow them to plan for necessary changes, and to work with Metro Vancouver staff to design optimum approaches for phased implementation.

PURPOSE

To seek MVRD Board authorization to proceed with an initial phase of engagement with key stakeholders to seek input on potential approaches for managing greenhouse gas emissions from existing large buildings in the region, towards achievement of Board-adopted climate action targets.

BACKGROUND

In 2021, the MVRD Board approved the *Clean Air Plan* and endorsed the *Climate 2050 Buildings Roadmap*, which establish a target of reducing GHG emissions from buildings 35% below 2010 levels by 2030, and achieving zero emission buildings by 2050. The Plan and Roadmap prioritize acting on “Greenhouse Gas Performance Requirements for Existing Large Buildings”. This is identified as one of the key ‘big moves’, that will be foundational to achieving the Board’s climate action targets. However, it is recognized that comprehensive research and engagement will be critical for successful

program design and implementation. This report presents an approach for the initial phase of engagement on reducing GHG emissions from large buildings, and seeks Board approval to proceed.

BUILDINGS: A MAJOR CONTRIBUTOR TO CLIMATE CHANGE

Buildings produce approximately 25% of the region's total GHG emissions on an annual basis. The Intergovernmental Panel on Climate Change has stated that immediate and deep GHG emissions reductions across all sectors are necessary to limit global warming to 1.5°C, with global emissions needing to be reduced by almost half by 2030. Even with programs and incentives in place, GHG emissions from buildings have risen 10% since 2010 in Metro Vancouver. This increase is due in large part to the widespread use of natural gas for space and water heating in most buildings, which produces over 90% of building GHG emissions. Buildings are also a major contributor of other health-harming air emissions.

Buildings last a long time, and decisions made today will impact building GHG emissions for decades. Equipment replacements for space and water heating usually take place every 10-20 years, and building envelope upgrades may only occur every 30-50 years. Given these long replacement cycles, it is critical to ensure that retrofits from this point forward consider a long term view, and maximize GHG reductions and energy savings. Most existing buildings will eventually need retrofits to reduce their GHG emissions to low or zero emissions in line with the targets adopted in MVRD Plans. Initiating a dialogue about GHG reductions, while considering a phased approach that clearly signals future low or zero emission limits to building owners, will enable them to plan for effective retrofits on or before these replacement cycles.

Proven technologies are already widely available to dramatically reduce or eliminate GHG and other health-harming air emissions. Some of these technologies, such as air source heat pumps that heat and cool, can also have life-saving health benefits for building occupants during extreme heat events.

FILLING THE GAP IN CURRENT LEGISLATION

There is a gap in current policy aimed at reducing GHG emissions from buildings when it comes to existing buildings. At the provincial level, the *CleanBC Roadmap to 2030* commits to important climate actions that focus on newly constructed buildings and on the energy efficiency of heating and cooling equipment sold and installed in BC. Recent federal announcements commit to developing a model building alterations code by 2030, and providing financial support to building owners to reduce the cost of low carbon retrofits. *However, there are no current requirements for GHG reductions from existing buildings at the federal or provincial levels.*

With the exception of Metro Vancouver and the City of Vancouver, local governments in BC do not have access to policy tools that would allow them to limit GHG emissions from existing buildings. Through the *Help Cities Lead* initiative, a number of local governments have advocated to the Province of BC to grant them this authority. In response to the adoption of the *Climate Emergency Action Plan* in late 2020, Vancouver City Council directed staff to bring forward recommendations to establish energy and emissions reporting, and to limit GHG emissions from homes and buildings. City of Vancouver staff intend to bring forward a proposed bylaw to address these recommendations in May 2022. Metro Vancouver and City of Vancouver staff continue to work closely to ensure alignment on initiatives to reduce emissions from buildings.

Metro Vancouver has an opportunity to address the current policy gap related to the operational emissions from existing large buildings in the region and complement senior and local government action. Modelling the impact of potential climate actions has shown that addressing GHG emissions from existing large buildings in the region – those with a gross floor area greater than 2322 m² (25,000 ft²) – would yield major reductions in total GHG emissions from buildings. A program of this design would be very effective, as buildings of this size comprise less than 2% of building stock in the region.

PROPOSED APPROACH FOR REDUCING GHG EMISSIONS FROM BUILDINGS

Metro Vancouver is responsible for managing air quality and regulating the discharge of air contaminants in the region under authority delegated from the provincial government in the *Environmental Management Act*. The attached discussion paper (Attachment 1) describes the proposed approach to conduct technical research and seek initial feedback on the conceptual approach, including:

- collecting data on GHG emissions from buildings;
- appropriate phasing of GHG limits for various types of buildings that would lead to significant and measurable progress toward the region’s climate targets; and
- clearly signaling the long term need and time frame for large buildings to meet a final limit of zero emissions by 2050, as adopted by the Board in the *Climate 2050 Buildings Roadmap*.

The initial phase of engagement on the proposed approach would seek to understand the challenges faced by owners of various types of buildings to prepare for upgrades. This information would enable Metro Vancouver staff to fine-tune the potential stages and timelines for requirements for various building types, which would set the stage for subsequent engagement and help address anticipated concerns about equity, affordability, and alignment between Metro Vancouver, City of Vancouver, and provincial initiatives. Early awareness of the proposed approach would enable building owners to plan their investments and avoid large investments in projects that would not align with GHG emission reduction targets. Building owners would also become more familiar with the incentives, information, and technical support that will facilitate the transition to zero-emission buildings.

Metro Vancouver’s existing *GVRD Boilers and Process Heaters Emission Regulation (Bylaw 1087)*, manages emissions of health-harming air emissions such as nitrogen oxides and particulate matter, from heating equipment in buildings and other sectors. A separate report in the May 2022 Climate Action Committee package describes the proposed engagement process to amend Bylaw 1087 to further reduce health-harming air contaminants, in line with new federal air quality standards for nitrogen dioxide. Buildings that use fossil fuels or renewable natural gas would need to concurrently manage health-harming air emissions in accordance with Bylaw 1087 or other relevant regional air emission control requirements, including amended bylaws. Buildings would be encouraged to use zero-emission heating technology to comply with limits on GHG and other health-harming air emissions. Recognizing the overlap between some boilers and heaters authorized under Bylaw 1087 and the potential approaches to manage GHG emissions from large buildings, engagement would be harmonized to the extent possible.

ENGAGEMENT PLAN

Metro Vancouver is committed to engaging with the public, interested and affected parties, First Nations, and other orders of government on potential approaches for managing GHG emissions from large buildings across the region. Staff propose that engagement will first proceed to gather information and insights to inform the development of an approach to manage greenhouse gas emissions from large buildings. Additional engagement will be developed to help develop more detailed proposals for GHG emission reduction requirements.

The engagement will build on learnings from the engagement conducted for Metro Vancouver's *Climate 2050 Buildings Roadmap*, as well as the work currently underway by the City of Vancouver. If supported by the Board, initial engagement will take place between June and November 2022, and will be coordinated with engagement for the proposed amendments to Bylaw 1087. The development of new emission requirements is an iterative process that will involve considering feedback from interested and affected parties and information from ongoing research. Staff will consider all feedback in developing potential requirements that will be incorporated into a proposed approach to manage GHG and other emissions from buildings, and presented to the Board for consideration.

ALTERNATIVES

1. That the MVRD Board authorize staff to proceed with an initial phase of engagement to develop an approach for managing greenhouse gas emissions from large buildings as described in the report dated April 20, 2022, titled "Initial Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver";
2. That the MVRD Board authorize staff to proceed with an initial phase of engagement to develop an approach for managing greenhouse gas emissions from large buildings as described in the report dated April 20, 2022, titled "Initial Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver", with the changes proposed by the Climate Action Committee; and
3. That the MVRD Board receive for information the report dated April 20, 2022, titled "Initial Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver", and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

Under Alternative 1, staff will proceed with preliminary engagement on managing GHG emissions from large buildings. The resources needed for this first phase of engagement, including staff time and consulting costs, will be covered through approved program budgets for 2022. A projection of resource needs for the implementation of the proposed requirements would be presented along with a proposed program for Board consideration, after the engagement process.

CONCLUSION

The *Clean Air Plan* and *Climate 2050 Buildings Roadmap* set an ambitious path towards zero-emission buildings by 2050. Phasing in GHG emission limits for various types of large buildings will play a key role in enabling our region to meet the Board's GHG emission targets and avoid the worst impacts of climate change. Preliminary engagement on the proposed approach for managing GHG emissions

from large buildings would be integrated with engagement on proposed amendments to Metro Vancouver's *Boilers and Process Heaters Emission Regulation* (Bylaw 1087) related to health-harming air emissions from buildings and other sources. Feedback will enable staff to consider the concerns and challenges of affected audiences when developing more detailed proposals for further engagement, if supported by the Board. Staff recommend Alternative 1, to provide authorization for staff to proceed with initial engagement.

Attachments

1. Draft Discussion Paper: "Potential Approaches for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver"
2. Draft Engagement Approach: "Engagement to Develop an Approach for Managing Greenhouse Gas Emissions from Large Buildings in Metro Vancouver"

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POTENTIAL APPROACHES
FOR MANAGING
GREENHOUSE GAS
EMISSIONS FROM LARGE
BUILDINGS IN METRO
VANCOUVER

Discussion Paper

May 2022

DRAFT

Overview

The Intergovernmental Panel on Climate Change has stated that immediate and deep greenhouse gas emissions reductions across all sectors are necessary to limit global warming to 1.5°C, with global emissions needing to be reduced by almost half by 2030. In response, the Metro Vancouver Board of Directors (Board) adopted the *Climate 2050 Strategic Framework* in 2018 and endorsed the *Clean Air Plan* and *Climate 2050 Buildings Roadmap* in 2021. The goals and targets in these air quality and climate change-related plans include the following:

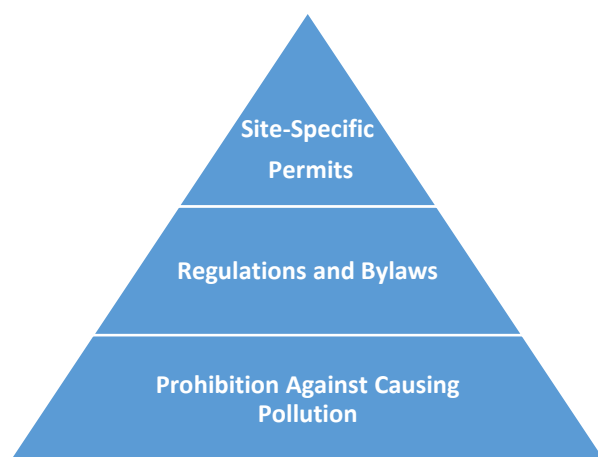
- Reduce greenhouse gas (GHG) emissions 45% below 2010 levels by 2030;
- Achieve regional carbon neutrality by 2050; and
- Ensure that ambient air quality meets or is better than the ambient air quality objectives and standards that are regularly updated by Metro Vancouver, the BC Government, and the Government of Canada

The *Clean Air Plan* also includes targets specific to the building sector including:

- A 35% reduction in GHG emissions from buildings below 2010 levels by 2030;
- A 15% reduction in nitrogen oxides emissions below 2020 levels by 2030; and
- A 35% reduction in fine particulate matter emissions below 2020 levels by 2030

The *Clean Air Plan* and *Climate 2050 Buildings Roadmap* include key actions – called “Big Moves” – which are necessary to achieve our climate and air quality targets for 2030 and 2050. Some of these Big Moves signal the transition to zero emission buildings through requirements and standards that would help address an existing gap to manage greenhouse gases. In addition, more stringent ambient air quality objectives were adopted by the Metro Vancouver Board in 2019 to protect public health and the environment and align with federal standards and provincial objectives.

Metro Vancouver Regional District (MVRD) is responsible for managing and regulating air quality in the region under authority delegated from the provincial government in the *Environmental Management Act*. Metro Vancouver protects public health and the environment through a tiered approach to managing the discharge of air contaminants that applies the use of site-specific permits, sectoral emission regulations, and provisions in the *Greater Vancouver Regional District (GVRD) Air Quality Management Bylaw No. 1082, 2008* (Bylaw 1082).



A tiered approach to regulating air contaminants in Metro Vancouver. A Large Building GHG Emission Regulation and proposed amendments to the Boilers & Process Heaters Emission Regulation Bylaw (Bylaw 1087) would fall into the “regulations and bylaws” category.

This discussion paper is one of two discussion papers that present related proposals for managing emissions from stationary combustion equipment. The two discussion papers address the discharge of:

- GHG air contaminants from natural gas and propane burning equipment in large buildings.
- Health-harming air contaminants from boilers used to provide heat or energy for buildings in commercial, institutional, residential or industrial settings, and from process heaters used in industrial settings. Emissions of air contaminants from these sources are currently regulated under the *Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* (Bylaw 1087).

This summary highlights the linkages between these initiatives to inform dialogue with interested parties.

Conceptual Approach for Managing GHG Emissions from Large Buildings

A conceptual approach for managing GHG emissions from large buildings is described in this discussion paper, for the purpose of obtaining feedback. Establishing performance requirements for emissions of greenhouse gases from large buildings is one of the Big Moves in the *Clean Air Plan*, and such requirements could eventually be incorporated into a bylaw regulating GHG and other air emissions from buildings. This discussion paper seeks to provide context for dialogue on the approach of establishing GHG limits to make significant and measurable GHG emission reductions from existing large buildings to achieve the region’s climate targets.

The types of buildings envisioned to be within the scope of the approach in this discussion paper include commercial, institutional, and multifamily residential buildings over 2,322 m² (25,000 ft²) in gross floor area (GFA). In order to allow time for building owners to prepare for upgrades and avoid large investments in projects that do not align with greenhouse gas emission reduction targets, a phased implementation approach is desirable, but it will be important to clearly signal longer term targets and requirements. In addition to reducing GHG emissions, buildings that consume renewable natural gas to achieve interim GHG emission limits, or natural gas or propane, would need to concurrently manage emissions of health-

harming air contaminants in accordance with the requirements in Bylaw 1087 or other relevant regional air emission control requirements.

Proposed Amendments to the Boilers and Process Heaters Emission Regulation (Bylaw 1087)



Emissions of health-harming air contaminants such as nitrogen oxides from boilers and process heaters with a facility capacity of 50 MW or less, including boilers found within large buildings, are currently managed through Bylaw 1087. Nitrogen oxides, or NO_x, include both nitrogen dioxide (NO₂) and nitric oxide (NO). In November 2019, the Board adopted stricter regional Ambient Air Quality Objectives for nitrogen dioxide (NO₂) that align with the 2020 NO₂ Canadian Ambient Air Quality Standards (CAAQS). The NO₂ CAAQS are expected to become even stricter by 2025. Amendments to Bylaw 1087 are proposed to support ongoing attainment of the Ambient Air Quality Objectives. The discussion paper titled “Proposed Amendments to the *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, May 2022*” proposes stricter emission limits for nitrogen oxides and additional requirements for dispersion modelling and emission stack design to reduce localized impacts.

The proposals and approaches set out in the discussion papers for amendments to Bylaw 1087 and for managing GHG emissions from large buildings create opportunities for co-benefits in meeting our climate targets to avoid the worst impacts of climate change and to improve local and regional air quality. Zero-emission technology, such as electrification or zero-emission district energy, can simultaneously achieve zero emissions of health-harming air contaminants and GHG emissions.

Overview of Engagement on the Related Regulatory Proposals and Approaches

Overlapping audiences for engagement on these two initiatives include the general public, building owners and managers, developers, district energy providers, and staff at member jurisdictions and other orders of government. To meet the needs of audiences interested in both initiatives, coordinated engagement on managing GHG emissions from large buildings and amendments related to boilers and process heaters will be conducted in 2022. Audiences will also be invited to participate in engagement activities specific to the individual initiatives. Engagement on the proposed amendments to Bylaw 1087 is expected to be completed in 2022 and followed by the development of amendments to Bylaw 1087 for consideration by the Board. Feedback from engagement on GHG emissions will inform the development of more detailed proposals that could be included in a future bylaw, including the possibility of amalgamating requirements into one bylaw covering all building-related emissions. The more detailed proposals would be the subject of additional engagement, if supported by the Board.

Metro Vancouver Key Audiences Impacted by Proposed Approaches to Reduce GHG and Air Contaminant Emissions in Buildings

	 PROPOSED APPROACH FOR MANAGING GHG EMISSIONS LARGE Large Buildings >25,000ft ²	 BOILERS & PROCESS HEATER BYLAW AMENDMENTS Boilers < 50 MW	
AUDIENCES	Owners of Large Buildings (Heating Capacity up to 50MW) >2,322 m ² (25,000 ft ²)	✓	✓
	District Energy Providers	✗	✓
	Industrial Buildings with Process Heating	✓ for Space and Domestic Hot Water Heating/Cooling ✗ Process Heating/Cooling	✓
	Developers of Newly Constructed Buildings	✗	✓

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Introduction

Metro Vancouver is a federation of 21 municipalities, one Electoral Area and one Treaty First Nation, working collaboratively in planning and providing vital utility and local government services to 2.7 million people. Essential services include drinking water, sewage treatment, and solid waste disposal, along with regional services such as regional parks, housing, land use planning and air quality management that help keep the region one of the most livable in the world.

Metro Vancouver's Member Municipalities and Population



The *Clean Air Plan* is Metro Vancouver's air quality and greenhouse gas management plan. Actions in the plan will reduce air contaminant emissions including greenhouse gases (GHG) by 2030, and support the goal of becoming a carbon neutral region by 2050, outlined in Metro Vancouver's *Climate 2050 Strategic Framework*. The development of regulatory requirements for existing large buildings to meet GHG emission performance targets is an action in the *Clean Air Plan* and will accelerate GHG reductions.

Under delegated authority from the BC *Environmental Management Act* (EMA), the Metro Vancouver Regional District is seeking feedback from affected audiences about potential approaches for managing GHG emissions from large buildings. Metro Vancouver is interested in reducing GHG emissions from the region's building sector, since GHG emissions are air contaminants that damage or are capable of damaging the environment.

Purpose

The purpose of this discussion paper is to:

- Provide information about the GHG emissions from the building sector in the region, as well as the benefits of establishing a timeline for requirements to achieve deep reductions in GHG emissions from the sector

- Encourage feedback from affected and interested parties on potential approaches to manage GHG emissions from large buildings in Metro Vancouver

This discussion paper may be of interest to:

- Member jurisdictions
- Building owners, managers, and developers
- Industry and business associations including boards of trade and chambers of commerce
- Other orders of government
- First Nations who may be considering or have implemented aligned regulations
- District energy providers
- Utility providers
- General public

Interested parties are invited to provide feedback by November 30, 2022.

Terms in bold letters are defined in the glossary at the end of this discussion paper.

Defining the Problem

Buildings in Metro Vancouver produce a significant share of the region’s total GHG emissions, representing the second highest emitting sector. The GHG emissions from buildings in Metro Vancouver also account for approximately 50% of province-wide GHG emissions from buildings.

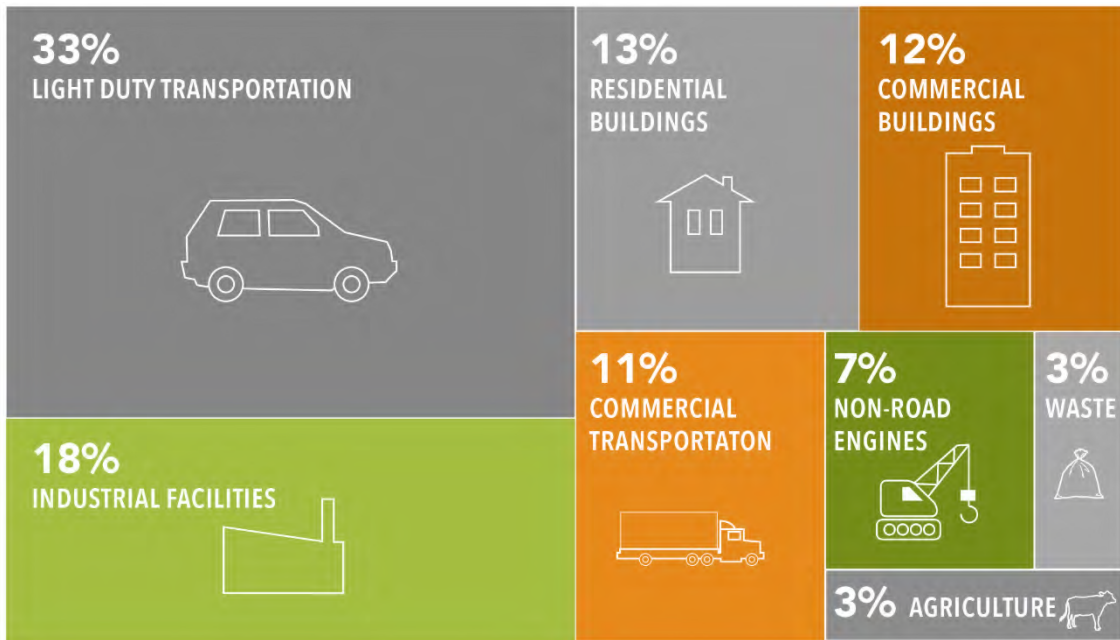


Figure: A breakdown of the Metro Vancouver region’s GHG emissions by sector in 2015.

In our region, over 90% of GHG emissions from buildings come from burning natural gas for space heating, hot water, and some household appliances, while close to 3% come from out-of-region electricity generation. Space and water heating are responsible for nearly all of the natural gas use in buildings.



There are nearly 500,000 buildings throughout Metro Vancouver that collectively have more than 185 million m² (2 billion ft²) of floor space. Together, these buildings are the second largest source of greenhouse gas emissions in Metro Vancouver after transportation, emitting over 4 million tonnes per year. Regardless of programs and incentives in place, greenhouse gas emissions from buildings have risen 10% since 2010 in Metro Vancouver. This increase is due in large part to the widespread and continued use of natural gas to heat space and water in many of our new and existing buildings. Buildings also last a long time, and decisions made a century ago about design and construction are affecting our GHG levels

today. Similarly, the decisions we make today about the design and retrofit of buildings will determine the amount of GHG emissions they create well beyond 2050.

An initial Metro Vancouver modelling [study](#) showed that requirements to limit GHG emissions from existing buildings will make a significant contribution to the deep emission reductions necessary to bring the region closer to meeting climate targets, and in turn reducing the impacts of climate change. Reductions in GHG emissions from large buildings can be achieved through a number of policies and requirements. Most existing buildings will eventually need retrofits to reduce their GHG emissions, such as switching to heat pumps or improving insulation and air tightness. Equipment options are currently available for many building types that can reduce a building's GHG emissions as well as emissions of health harming air contaminants such as **nitrogen oxides (NOx)**.

How to Address the Problem: Zero Emission and Resilient Buildings by 2050

The [Climate 2050 Strategic Framework](#) sets out the region's long term strategy for climate action. Under this Framework, Metro Vancouver has set the following goals:

- Achieving a 45% reduction in GHG emissions from 2010 levels, by 2030
- Becoming a carbon neutral region by 2050
- Ensuring infrastructure, ecosystems, and communities are resilient to the impacts of climate change.

Metro Vancouver's *Clean Air Plan* and *Climate 2050 Buildings Roadmap* set sector specific GHG reduction target for the region's building sector:

- By 2030, a 35% reduction in GHG emissions below 2010 levels.
- All buildings are zero emissions in their operation, deriving all energy needs from 100% clean and renewable sources.

Both policy documents describe specific strategies, actions and metrics required in the building sector to meet the *Climate 2050* long term emission reduction, and resiliency targets. This proposed approach responds to one of these key actions, which is to "establish GHG performance requirements for large existing buildings".

Reducing GHG emissions from the region's building sector will be an important step to ensure that Metro Vancouver does its part in the global effort to take action on climate change and create more resilient and healthy communities.

Why Manage GHG Emissions from Large Buildings Through Requirements?

Given our ambitious climate targets, requirements to reduce GHG emissions in buildings would provide more certainty of achieving regional, provincial, and local government climate targets. Many leading jurisdictions in North America have implemented regulatory requirements in order to decarbonize their building sectors. Metro Vancouver is proposing a similar approach to work towards the region's long term climate goals. These requirements would provide an important signal to building owners to prepare for

zero-emission retrofits, but to be successful they would need to be paired with supporting resources, tools and programs. Metro Vancouver's *Clean Air Plan* and *Climate 2050 Buildings Roadmap* include actions that will support zero-emission retrofits, including the creation of a Large Building Retrofit Accelerator. The Retrofit Accelerator aims to be a regional resource hub that provides technical support and resources to building owners and managers to implement low- and zero-emission retrofits.

The *Clean Air Plan* and the *Climate 2050 Buildings Roadmap* include strategies and actions, including several actions that are identified as a "Big Move". Big Moves are key actions that are foundational to meeting the GHG emission reduction targets for 2030 and beyond. To meet targeted GHG emission reductions for the region's building sector, a specific action was identified as a Big Move for buildings as outlined below:

"Greenhouse Gas Performance Requirements for Existing Large Buildings

Develop regulatory requirements for existing large buildings to meet greenhouse gas emission performance targets, which would reach zero carbon emissions before 2050. Requirements would apply to all existing commercial and large residential buildings, and would include energy consumption benchmarking, reporting and performance requirements, in coordination with BC Government regulatory requirements. Any regulation should also require that emissions from large buildings would not lead to local air quality that exceeds Metro Vancouver's ambient air quality objectives, when also considering background levels."

Reducing GHG emissions, as well as other health harming air contaminants, will require long term planning to help support a transition to **zero carbon emission** buildings by 2050. The potential approach for managing large building GHG emissions is an important tool to signal the changes to a building that will be necessary, so that building owners can plan for emission reductions as a part of the decision-making process for building upgrades and equipment replacements.

Where implemented carefully and effectively, requirements for reporting and limiting GHG emissions from buildings have been demonstrated to greatly accelerate the number and depth of building retrofits across a jurisdiction. Examples of programs operating in other North American jurisdictions that require reporting, set GHG emission limits, or both, include: Ontario, Seattle, New York City, and Washington DC.

Co-Benefits of Reducing Building-Related GHG Emissions

Reducing GHG emissions from large buildings contributes to meeting our climate targets and helps to avoid the worst impacts of climate change. However, investments in energy-efficient, low-carbon building systems also have a number of other demonstrated benefits that are increasingly valued by occupants, tenants, and investors, including:

- Improvements to local air quality
- Improvements to occupant health, where improvements to ventilation systems are often made in conjunction with emission reduction measures and energy efficiency improvements
- Improvements to occupant comfort and safety, especially where low-carbon systems such as electric heat pumps (which provide both heating and cooling) are installed
- Improved resilience to power outages and extreme weather events, especially where energy efficiency upgrades are paired with on-site renewable energy systems and energy storage

Working within the Legislation

Potential approaches to managing GHG emissions from large buildings would need to fill a gap in existing policy to reduce GHG emissions from buildings in our region. This section outlines the current legislation across orders of government, and describes the opportunity to significantly reduce GHG emissions from existing buildings.

Federal Regulations & Actions

The Government of Canada *Pan-Canadian Framework on Clean Growth and Climate Change (PCF-CGCC): A Healthy Environment and Healthy Economy*, and the federal *Net Zero Accountability Act* set GHG reduction targets of 40%-45% by 2030, and net zero by 2050 (relative to 2005 levels). Recognizing that buildings account for [12%](#) of total national emissions in 2019, the *PCF-CGCC* commits the federal government to support retrofits of existing building through strategies including, but not limited to:

- Developing a model building alterations code by 2030 to be adopted by provinces and territories.
- Supporting the continuation and expansion of provincial and territorial efforts to retrofit existing buildings.
- A Canada Investment Bank commitment to invest \$2 billion to finance up-front capital costs of commercial and large scale building retrofits.

Provincial Regulations and Actions

Through its *CleanBC* plan, the Province of BC has committed to developing new standards for building upgrades via the introduction of an alterations code for existing buildings by 2024, which will bring existing buildings up to modern standards for efficiency and comfort. With the release of the *Clean BC Roadmap to 2030*, the following plans have been identified:

- The introduction of GHG emission standards in the BC Building Code for newly constructed buildings in 2024, with zero carbon new construction required by 2030.
- After 2030, all new space and water heating equipment sold and installed in B.C. will be at least 100% efficient (i.e. electric resistance heating, heat pumps).

If enacted, the initiatives outlined above would support efforts to reduce GHG emissions from newly constructed buildings. They would also support low carbon upgrades in existing buildings at the time of replacement of building equipment, after 2030.

The Province also administers the [Better Buildings](#) incentive program to support existing building energy efficiency and emissions reductions.

Existing Policies and Programs in the Region

In Metro Vancouver, a number of local governments have continued to push for action to enable building level greenhouse gas reporting (often referred to as “benchmarking”) and setting GHG emission limits. Building on its voluntary Building Energy Challenge program, the City of Richmond has drafted a model bylaw for a building energy benchmarking policy for use by other municipalities. Additionally, the cities of Burnaby, Richmond, Surrey, Vancouver and others have since introduced energy benchmarking requirements for new Part 3 (commercial, multifamily, industrial) buildings, alongside BC Energy Step Code requirements.

Going further, the City of Vancouver’s Climate Emergency Action Plan, adopted in late 2020, outlines requirements to meet their 2030 space and water heating targets of cutting GHG emissions in half from 2007 levels. Through the Plan, Vancouver City Council directed staff to bring forward recommendations to limit annual GHG emissions from existing large commercial buildings, and detached homes beginning in 2025, as well as recommendations to require energy and emissions reporting by 2023. City of Vancouver staff intend to bring forward proposed bylaws to address the recommendations in May of 2022.

Metro Vancouver: A Path Forward

There is currently a gap in the BC policy landscape to manage GHG emissions from existing buildings in the region (outside of the City of Vancouver). In this section, an approach is proposed for consideration, outlining how Metro Vancouver would manage GHG emissions from large buildings, which could address this gap, and complement provincial and local action by ensuring improved performance in buildings that have been constructed to older and less stringent standards for energy use and GHG emissions. The proposed approach would also support improvements prior to (or alongside) any requirements that could be triggered by upcoming provincial requirements for efficient equipment standards.

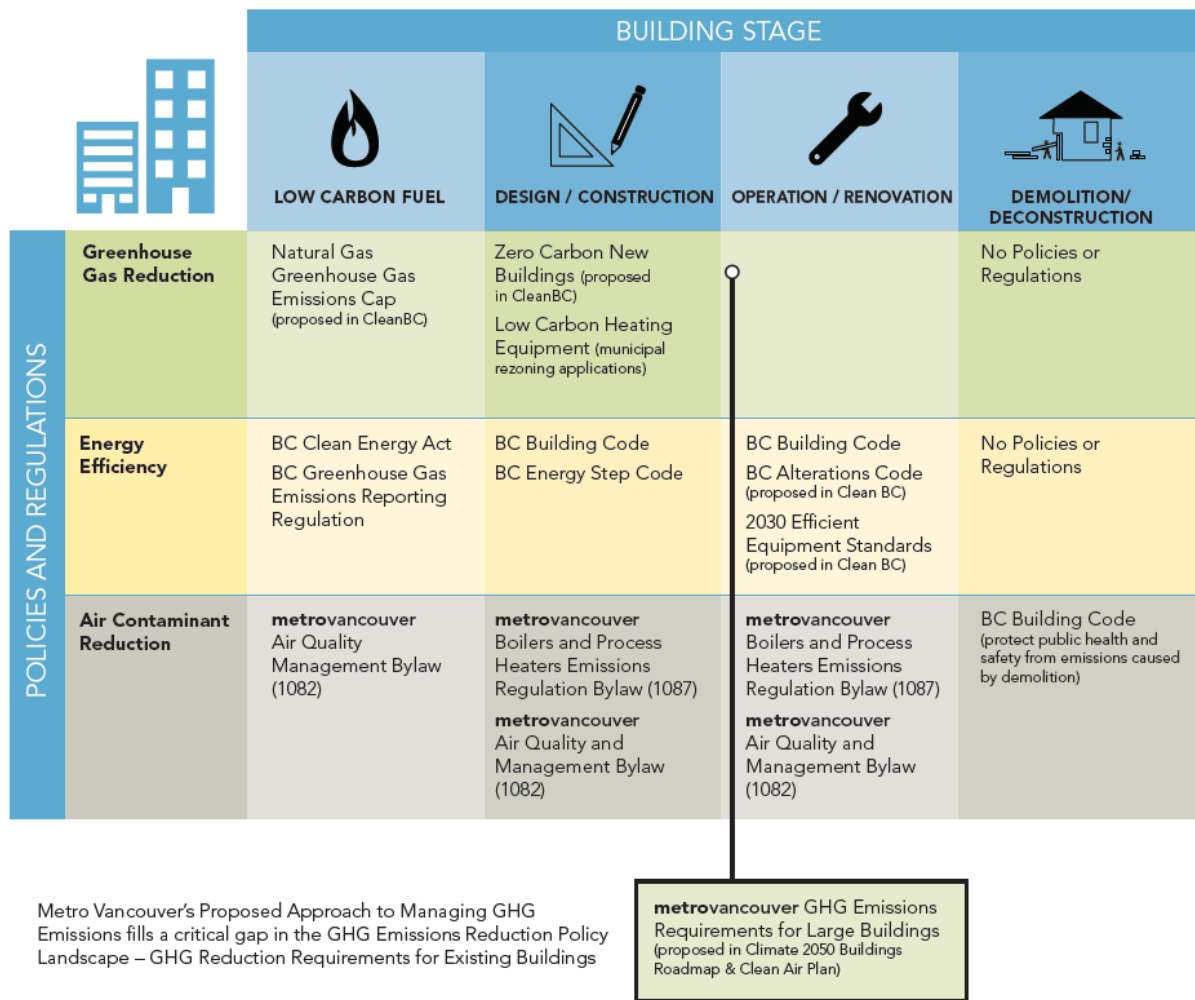


Figure: The proposed approach to managing large building GHG emissions would fill a gap in current Provincial policies and regulations for reducing greenhouse gases from the building sector.

As proposed, the approach could provide coordination and streamlined administration of requirements to reduce GHG emissions from large buildings across multiple local government jurisdictions, reducing the burden on individual member jurisdictions. Metro Vancouver would ensure that requirements to limit GHG emissions from large buildings integrate efficiently with other provincial codes and programs. Metro Vancouver would also work with its member jurisdictions to ensure they are informed and able to support the implementation of the approach particularly by identifying and supporting building owners in their communities.

In addition to the efforts taken by other levels of government, many building owners in Metro Vancouver already benchmark and disclose energy use and emissions from their buildings on a voluntary basis. A growing number of these owners also participate in the [Building Benchmark BC](#) program, which seeks to increase building benchmarking and disclosure to accelerate low carbon retrofits. These owners represent more than 1600 commercial, residential, industrial, and institutional properties in BC. Analysis shows that voluntary benchmarking programs alone will not be sufficient to achieve the necessary GHG emissions reductions. However, the growing use of benchmarking and lessons learned from Building Benchmark BC would inform a regional approach to reporting of energy consumption and GHG emissions that would support the design of potential requirements to manage GHG emissions in large buildings.

Metro Vancouver – Developing an Approach for Managing GHG Emissions from Large Buildings

Metro Vancouver is interested in hearing about any challenges or opportunities associated with accelerating the transition to zero-emission buildings through Metro Vancouver’s proposed management of GHG emissions from large buildings.

Guiding Principles

The guiding principles and directions that will help shape the management of GHG emissions are:

1. Minimize the risk to public health, the local environment, and the global climate from GHG emissions and other air contaminants
2. Set and signal requirements in advance to allow time for building owners to prepare for upgrades and avoid large investments that do not align with GHG emission reduction goals
3. Develop fair requirements that consider the particular challenges faced by various building types
4. Collaborate with affected parties and organizations to create a coordinated, streamlined, efficient, and well-supported program
5. Recover costs efficiently, in a fair and effective manner that reflects the harmful impacts of GHG emissions

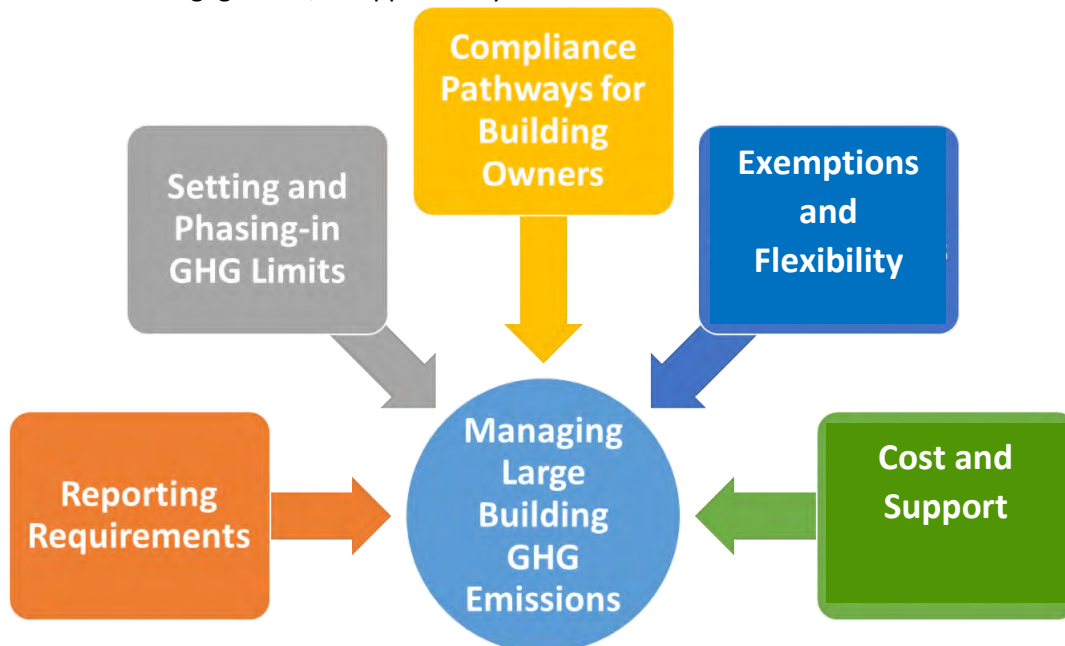
Program Scope

The proposed approach to managing GHG emissions would require building owners to report the GHG emissions from their buildings on an annual basis to ensure that emissions fall below limits established by the Metro Vancouver Regional District for specified building types and sizes. Building types and sizes that could be in the scope of the potential requirements are commercial, institutional, and residential buildings over 2,322 m² (25,000 ft²). Agricultural buildings would not be within the scope of the proposal.

While only making up 2% of the total number of buildings in the region, large buildings comprise 35% of the total building floor area of all buildings, and will contribute to a significant amount of the GHG emission reductions required to meet the region's climate targets.

Design Elements

The following are key considerations for the development of potential requirements that would be the subject of further engagement, if supported by the Board:



- **Reporting Requirements:** Type of data reported and frequency of reporting.
- **Setting and Phasing-in GHG Emission Limits:** Initial GHG emission limits based on research and analysis, future interim limits based on analysis of reported data from various types of buildings. Limits would be phased in over time for various building types, depending on their capacity to implement changes.
- **Compliance Pathways:** The ways in which a building owner may be able to achieve compliance with the emission limits.
- **Exemptions and Flexibility:** Exemptions or more flexible requirements for certain building types or circumstances.
- **Cost:** Technical support would be available to assist building owners with planning for cost-effective transitions to zero-emission technology. Program fees would be designed to support the achievement of health and environmental benefits from emission reductions, promote

continuous improvement, and recover costs of program development and compliance promotion based on the established principles of discharger-pay, equity, and fairness.

Reporting Requirements

Several municipalities have expressed interest in benchmarking energy use and emissions of buildings, and the Province administers the voluntary [Building Benchmark BC](#) reporting program. Standardized annual reporting of energy consumption and type of fuel to Metro Vancouver could be proposed, to reduce the time and resources that building owners and managers spend on reporting data. Metro Vancouver could also explore the feasibility of using current industry standards for reporting such as the [ENERGY STAR Portfolio Manager](#) online platform. Metro Vancouver would convert energy consumption to GHG emissions based on the type of fuel consumed using the carbon dioxide equivalent (CO₂e) emission factor for each respective fuel, set by the [Province of BC Best Practices Methodology for Quantifying GHG Emissions Report](#).

Energy use and emissions reporting programs generally collect the following information about buildings:

Types of Data Generally Collected - All Buildings
<ul style="list-style-type: none"> • Property name • Property address • Owner name • Property type • Total gross area of property • Gross floor area for each property use in the building • Year of construction • Number of buildings • Twelve consecutive months of energy data for all energy sources • Fuel sources • Metered areas ('whole building' is usually the only 'compliant' response) * • GHG emissions and emissions intensity • Heating or hot water technologies • Reporter contact information
<p>* <i>Sub-metered portions of a building could be tracked separately, but total consumption reported must encompass the whole building for performance metrics to be meaningful</i></p>

Table 1: Building data typically collected for benchmarking (i.e. reporting) programs.

This information about buildings can be used to calculate the greenhouse gas intensity (GHGi), which is a measure of the total GHG emissions (kg or tonnes of carbon dioxide equivalent) divided by the gross floor area of a building (m²) emitted in a year. GHGi facilitates the comparison of emissions from buildings of a similar type and size, and the identification of appropriate GHGi limits for various building types and sizes.

Setting and Phasing-in Greenhouse Gas Emission Intensity Limits

Different GHG emission intensity limits for different building types, representing the maximum emissions that a building of a particular type could emit per unit of floor area, could be established and phased in over time. Building types are groupings of buildings with similar characteristics such as occupancy class, age, size, and design features for which emissions performance can be compared. Examples of building types may include, but are not limited to, various size categories within the following:

- Large Office Buildings
- Large Retail Buildings
- Office Buildings and Retail Complexes
- Mid-rise Residential
- Multifamily Residential

For brevity, this document refers to GHG emission intensity limits as “GHG emission limits”. Initial GHG emission limits could be determined by research and analysis of GHGi of different building types. More stringent GHG emission limits could then be developed and introduced over time based on the reported information about energy use and emissions, for fairness, accuracy, and alignment with the region’s GHG reduction goals and other local government initiatives.

Over time, more buildings within scope would make changes to meet the GHG emission limit for their building type. Buildings with the lowest GHG emissions would only be affected further in the future, as the region approaches the goal of zero-emission buildings by 2050.

Compliance Pathways for Building Owners

Building owners would have the flexibility to choose the most cost-effective upgrades and retrofits needed to ensure building emissions meet or are below the GHG emission limit that could be set for their building type.

Deep emission reductions require long term planning. As buildings make decisions today about replacing heating equipment and other building components, it will be important to consider the long term implications of those decisions, given the long life cycles of buildings and heating equipment.

Building upgrades could be required to meet or be better than GHG emission limits for that building type through various pathways, with examples shown in the figure below. In the near term, improved energy efficiency could play a strong role in reducing emissions. However, to achieve the goal of zero-emission buildings by 2050, buildings would eventually be required to use zero-emission technology and renewable energy sources, such as electricity and low- or zero-emission district energy.

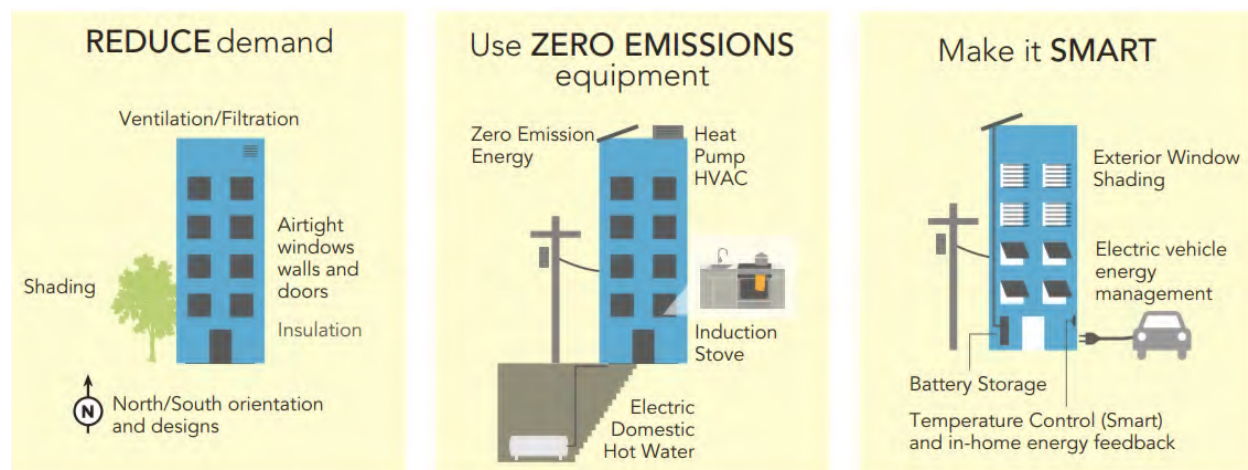


Figure: Taking a whole building approach to increase efficiency and reduce GHG emissions.

Submission of a building GHG emission reduction plan and timeline could also be a compliance pathway.

Renewable natural gas (RNG) may have a role as a compliance pathway for buildings. For some existing heating systems that are harder to electrify quickly, such as high-temperature water or steam boilers, RNG may be a viable path to reduce GHG emissions. While RNG reduces GHG emissions, it still produces harmful air contaminants such as NO_x when it is burned. Building owners who choose to purchase RNG to lower their GHG emissions would still be subject to other air quality requirements under Bylaw 1087.

Learn more about low carbon fuel options for buildings in [the Climate 2050 Buildings Roadmap](#).

Exemptions and Flexibility

Some building types over 2,322 m² (25,000 ft²) may require more flexibility to address challenges such as:

1. Specific constraints related to the operations of a building

Some building types house specialized processes and activities that increase energy use and related GHG emissions, complicating the comparison of GHGi. Examples of buildings in this category include:

- Industrial facilities
- Recreational facilities (such as buildings that include ice rinks or swimming pools)

2. Financial constraints or hardship

There are some building types that may need a longer timeline to make upgrades or retrofits, regardless of building size, due to risks related to affordability. There may also be financial hardships that can delay a building's ability to meet proposed requirements. Examples include:

- Purpose built rentals (e.g. non-market rental housing)
- Buildings under severe financial distress or other forms of hardship

3. Recently constructed buildings and building sales

Recently constructed buildings could be required to comply with GHG emission limits after occupancy. Proposed requirements would need to consider the financial and logistical challenges for a recently completed building to implement changes to reduce GHG emissions soon after the building was constructed. This points to the critical need to ensure new buildings today are designed and built to zero emissions or zero-emission-ready standards to avoid future retrofit costs for building owners.

Another consideration is the transfer of building ownership and how to provide flexibility for new building owners to meet the requirements.

4. District energy connected buildings

Buildings that receive all of their space and water heating from an offsite district energy facility may not be included in the proposed requirements. Reducing GHG emissions from buildings connected to district energy systems depends in part on the attributes of each district energy system and whether connected buildings receive energy from other sources. Many district energy systems in the region already have plans to significantly reduce GHG emissions. Metro Vancouver could assess opportunities to support GHG emission reductions in district energy systems, and determine if additional requirements may be necessary at the source to accelerate this transition, as indicated in the *Clean Air Plan*.

5. Large building portfolio owners

Metro Vancouver is considering how Real Estate Investment Trusts (REIT), institutional organizations, and other large building portfolio owners could achieve compliance at the portfolio scale for buildings located in the Metro Vancouver region.

Cost and Support

Metro Vancouver recognizes the significant investments needed to upgrade or retrofit buildings to reduce GHG emissions. Technical support would be available to help building owners identify the most cost-effective pathways to transition to zero emissions. Metro Vancouver has initiated a three year (2022-2024) project to develop a Large Building Retrofit Accelerator, and anticipates close collaboration with the Metro Vancouver Zero Emissions Innovation Centre and other organizations supporting the transition to a low-carbon future.

Other jurisdictions in North America have used different methods to support program administration. For example, the City of Los Angeles charges an annual fee per building, while other jurisdictions have used tax revenue or energy efficiency funding to support program delivery. Metro Vancouver is exploring options that would align with the principles of discharger-pay, equity, and fairness. There would be further engagement with affected audiences on proposed mechanisms for program cost recovery, if supported by the Board.

Providing Feedback and Comments

Interested parties are invited to provide feedback by November 30, 2022.

Metro Vancouver staff and contractors will treat comments received with confidentiality; however, please note that comments you provide and information that identifies you as the source of those comments may be publicly available if a freedom of information (FOI) request is made under the *Freedom of Information and Protection of Privacy Act*.

If you have any questions or comments regarding this initiative, please call 604-432-6200 or email us at metrovan@metrovanancouver.org.

Visit www.metrovanancouver.org/XXX for more information. Sign up for the project mailing list to receive updates and notification about engagement opportunities.

Glossary

Air contaminant means any substance that is emitted into the air and that (a) injures or is capable of injuring the health or safety of a person; (b) injures or is capable of injuring property or any life form; (c) interferes or is capable of interfering with visibility; (d) interferes or is capable of interfering with the normal conduct of business; (e) causes or is capable of causing material physical discomfort to a person; or (f) damages or is capable of damaging the environment.

Boiler means any combustion equipment fueled solely by natural gas, propane, or biomass that produces hot water or steam, but does not include: (a) waste heat boilers; (b) sulphur plant reaction furnaces, steam reformer heaters and steam cracking heaters in the refined petroleum products industry as identified in the North American Industry Classification System (NAICS) code 324110; and (c) process heaters.

Carbon dioxide (CO₂) is a greenhouse gas, and the primary driver of climate change. Carbon dioxide is produced both naturally and through human activity, primarily by burning fossil fuels.

Carbon neutral region means that we have achieved the deepest greenhouse gas emissions reductions possible across all economic sectors, and any emissions left are balanced out by the carbon dioxide removed from the atmosphere by the plants, trees, and soil in the region, as well as by potential carbon capture technologies that are under development.

Greenhouse gases (GHG) are air contaminants that trap heat and are the cause of climate change. Greenhouse gases include carbon dioxide and nitrous oxide as well as short-lived climate forcers such as methane, halocarbons, black carbon and ozone. Limiting or preventing greenhouse gas emissions and removing these gases from the atmosphere is critical to avoiding catastrophic climate change (sometimes referred to as “climate change mitigation”).

Nitrogen oxides (NO_x) are a group of gases, which includes nitrogen dioxide, that are produced during high-temperature fuel combustion, and can contribute to the formation of ground-level ozone and fine particulate matter.

Renewable natural gas is a renewable form of natural gas with a low carbon intensity. Sources of renewable natural gas include landfill gas and organic waste.

Zero carbon or **zero carbon emissions** are emissions that generate no net greenhouse gas emissions at the point of use. A zero carbon fuel source either produces no greenhouse gas emissions or any greenhouse gas emissions produced are offset by renewable energy (either generated on-site or purchased).

ENGAGEMENT PLAN

The discussion paper titled “*Potential Approaches for Managing GHG Emissions from Large Buildings in Metro Vancouver*” will be reviewed with the Metro Vancouver Climate Action Committee and with the MVRD Board prior to an initial phase of engagement with relevant levels of government, First Nations, interested and affected groups, and the public. This initial step is intended to enable staff to listen and learn from key audiences, and gather feedback to help develop more detailed proposals for GHG emission reduction requirements that would be subject to further engagement at a later date, if supported by the MVRD Board. The next steps in the preliminary engagement will include:

- Creating a project webpage and FAQ document
- Initiating discussions and correspondence with the identified audiences
- Considering creating a technical working group, which could comprise invited representatives from the identified audiences
- Conducting a combination of virtual and in-person engagement events
- Hosting an online feedback form
- Providing a dedicated email address that will be monitored by the project team to answer any enquiries related to the project

Concurrently, the project team will continue with the technical analysis mentioned in this report.

Preliminary engagement on managing GHG emissions from large buildings will be coordinated with engagement on proposed amendments to Metro Vancouver’s *Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* related to stricter requirements on health-harming air contaminants from buildings and other sources.

The results of these initial engagement activities will be compiled and analyzed and will then be used to inform the recommendations for the next steps in reducing emissions from large buildings coming back to the Metro Vancouver Climate Action Committee and the MVRD Board.

Audiences

The following have been identified as those who might be interested or may be impacted by a potential development of a regulation for GHG emissions from large buildings in Metro Vancouver:

- Member jurisdictions
- Building owners, managers, and developers
- Industry and business associations including boards of trade and chambers of commerce
- Other orders of government
- First Nations
 - Where First Nations may be considering or have implemented aligned regulations
- District energy providers
- Utility providers
- General public

Similar and Aligned Initiatives:

It is helpful to both Metro Vancouver and the audiences for this engagement to be aware of similar and or aligned regulations, particularly those directed at emissions from large buildings. At this time, staff are aware of:

- Metro Vancouver’s additional mitigation actions in the *Clean Air Plan, 2021*
- Metro Vancouver’s additional mitigation and adaptation actions in the *Climate 2050 Buildings Roadmap*.
- Metro Vancouver’s *Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*
- Metro Vancouver’s three year (2022-2024) Sustainability Innovation Fund project to develop a Large Building Retrofit Accelerator
- City of Vancouver’s Draft Carbon Pollution Regulations for Existing Commercial and Multi-Family Buildings
- Related actions in the provincial *CleanBC Roadmap to 2030*
- Potential for additional similar and aligned initiatives from other jurisdictions

Methods and Timing

In order to engage with the identified audiences, the following methods are being proposed as part of the preliminary phase of engagement:

Method	Purpose
Metro Vancouver website	Provide up-to-date information about the engagement process and provide an FAQ document
Communications to identified audiences	Provide notification to the identified audience that engagement is beginning, and provide information on opportunities to engage, and on how to provide input
In-person and virtual engagement events	Send invitations to member jurisdictions and interested and affected groups to participate in events that will provide an update on the initiative and solicit questions and input
Invitation letter to meet with First Nations	Offer to consider any issues or concerns from First Nations, and provide any additional information as requested. Clarify if there are implications for buildings located on First Nation’s lands, including leased lands.
Online feedback form	Provide an online opportunity for interested individuals and groups to provide input

If authorized by the Board, engagement is expected to take place between June and November 2022.

Next Steps in Engagement

On completion of this preliminary engagement process, and consideration of feedback and ongoing technical assessments, staff intend to return to the Board with recommendations for next steps in reducing emissions from large buildings.

To: Climate Action Committee

From: Arvind Saraswat, Senior Project Engineer
Esther Bérubé, Division Manager, Air Quality Bylaw and Regulation Development
Parks and Environment Department

Date: April 20, 2022 Meeting Date: May 13, 2022

Subject: **Engagement on Proposed Amendments to GVRD Boilers and Process Heaters
Emission Regulation Bylaw No. 1087, 2008**

RECOMMENDATION

That the MVRD Board direct staff to proceed with engagement on the proposed amendments to *Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* as described in the report titled “Engagement on Proposed Amendments to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*”, dated April 20, 2022.

EXECUTIVE SUMMARY

This report seeks authorization from the MVRD Board to proceed with engagement on proposed amendments to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* (Bylaw 1087). If supported by the Board, this would be coordinated with preliminary engagement on managing greenhouse gas emissions from large buildings, recognizing that there is some overlap in the stakeholder audience. Under the current Bylaw 1087, Metro Vancouver regulates the discharge of air contaminants from boilers and process heaters. In November 2019, the Board adopted stricter Ambient Air Quality Objectives for nitrogen dioxide (NO₂) that align with national standards. Metro Vancouver staff seek to engage on proposed amendments to Bylaw 1087 to continue to meet the ambient air quality objectives for NO₂, as they become more stringent, thereby enabling continuous improvement in air quality. The proposed amendments include stricter emission limits for nitrogen oxides, additional requirements for dispersion modelling and responses when modelling indicates exceedance of air quality objectives, and additional requirements for emission stack design to reduce impacts near boilers and process heaters.

PURPOSE

This report seeks Board approval to initiate engagement on proposed amendments to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* (Bylaw 1087), focused on reducing impacts of harmful emissions of nitrogen oxides (NO_x), which include both nitrogen dioxide (NO₂) and nitric oxide (NO).

BACKGROUND

The MVRD Board adopted the *Clean Air Plan* (Reference 1) in September 2021, which includes targets for air quality to meet or be better than the ambient air quality objectives and standards at the regional, provincial, and federal levels. This report seeks Board authorization to engage on proposed amendments to Bylaw 1087 to continue to meet ambient air quality objectives for NO₂ as they become more stringent, thereby enabling continuous improvement in ambient air quality.

MANAGING EMISSIONS FROM BOILERS AND PROCESS HEATERS

Buildings and industrial facilities are important sources of NO_x in the region. Bylaw 1087 regulates harmful air emissions, including NO_x from boilers and process heaters having a combined capacity under 50 MW in residential, institutional, commercial, and industrial facilities. Facilities with a larger boiler and process heater capacity are typically regulated under site-specific permits.

The *Clean Air Plan* aims to reduce regional greenhouse gas (GHG) emissions by 45% from 2010 levels by 2030. A separate report in this agenda seeks Board approval to begin initial research and engagement on regulating GHG emissions from large buildings, which may apply to some boilers and heaters currently regulated under Bylaw 1087. Switching to zero-emission technologies, such as electrification or zero-emission district energy, could simultaneously eliminate GHG emissions and other harmful air contaminants such as NO_x.

MORE STRINGENT AMBIENT AIR QUALITY OBJECTIVES

Emissions of NO_x can contribute to the formation of ground-level ozone as well as fine particulate matter. In addition, there is strong evidence that exposure to ambient NO₂ causes respiratory issues, even at low ambient concentrations, and can cause mortality. Some evidence suggests links to many other health impacts (Reference 2). In 2017, the Canadian Council of Ministers of Environment adopted Canadian Ambient Air Quality Standards (CAAQS) for NO₂ that would become more stringent in 2020 and 2025. On November 29, 2019, the MVRD Board adopted the 2020 NO₂ CAAQS as Metro Vancouver's Ambient Air Quality Objectives for NO₂. There is a potential for emissions from large developments with high-capacity boilers and process heaters to increase nearby concentrations of NO₂ above these ambient air quality objectives. Because NO₂ is harmful even at low concentrations, it is important to protect sensitive populations, such as children, the elderly, and people with existing health conditions, from exposure to these emissions. Amendments to Bylaw 1087 are needed to continue meeting Metro Vancouver's ambient air quality objectives in the vicinity of boilers and process heaters and to enable continuous improvement of air quality.

PROPOSED AMENDMENTS TO BYLAW 1087

Bylaw 1087 currently requires dispersion modelling for any boiler or process heater burning biomass, to estimate potential impacts of emissions on nearby receptors and inform facility design. Requiring dispersion modelling of emissions from the combustion of other fuel sources that also produce NO_x, such as natural gas and propane, would be beneficial to address potential impacts of the emissions.

Bylaw 1087 includes emission limits for NO_x from boilers and process heaters burning natural gas or propane, but not for those burning biomass. The availability of ultra-low NO_x combustion technology makes it possible for boilers and process heaters to achieve lower emission limits. More stringent NO_x emission limits will support continuous improvement in regional air quality and protect nearby receptors. Owners of boilers and process heaters will also be encouraged to consider switching to zero-emission technology to meet emission limits for NO_x and other air contaminants in Bylaw 1087 and potential future restrictions on GHG emissions in line with regional climate targets.

Staff are seeking to engage on the following proposed amendments to Bylaw 1087:

1. Mandatory dispersion modelling for new boilers or process heaters with a facility capacity between 10 MW and 50 MW burning natural gas or propane.

2. Mandatory dispersion modelling for new boilers and process heaters with a facility capacity between 3 MW and 10 MW burning natural gas or propane within 100 metres of sensitive receptors, such as schools, hospitals, and daycares.
3. The District Director may also require additional studies, such as more complex emissions modelling, ambient monitoring, and implementation of an approved exposure mitigation plan.
4. Owners of existing boilers or process heaters that cannot demonstrate achievement of ambient air quality objectives would be required to show they are meeting the objectives when replacing an existing boiler or process heater or within ten years, whichever is sooner.
5. Improvements to emission stack design, which would reduce impact of emissions on nearby receptors by improving dispersion of emissions.
6. Reduce NO_x emission limit for new and replacement boilers and process heaters fueled by natural gas or propane from 60 mg/m³ to 20 mg/m³.
7. Introduce a NO_x emission limit of 120 mg/m³ for boilers and process heaters fueled by biomass.
8. After January 1, 2040, emissions from all boilers and process heaters would be required to meet NO_x emission limits noted above.

ENGAGEMENT PLAN

Metro Vancouver is committed to engaging with the public, interested and affected parties, First Nations, and other governments; and incorporating their feedback into the development of the proposed bylaw amendments. Staff propose to lead an engagement process as outlined in the attached Engagement Plan (Attachment 2).

The engagement will build on learnings from previous engagements that intersect climate action and air quality initiatives. The engagement has been designed to reach a focused audience of those likely to comment, be impacted, or have a role in implementation, and will involve activities that provide opportunities for dialogue on the proposed changes. If supported by the Board, engagement will take place between June and November 2022; and will be coordinated with the concurrent engagement on the proposed approach for managing greenhouse gas emissions from large buildings.

Staff will review and explore feedback from the wide-ranging audience identified in Attachment 2, which will help refine the proposed amendments for Committee and Board consideration in 2023.

ALTERNATIVES

1. That the MVRD Board direct staff to proceed with engagement on the proposed amendments to *Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* as described in the report titled "Engagement on Proposed Amendments to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*", dated April 20, 2022.
2. That the MVRD Board receive for information the report titled "Engagement On Proposed Amendments to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*", dated April 20, 2022 and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

Under Alternative 1, staff would proceed with engagement on the proposed amendments to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*. The resources needed, including staff time and other costs associated with the engagement program and subsequent development of bylaw amendments, have been approved within program budgets for 2022.

CONCLUSION

The proposed amendments are expected to support continuous improvement in ambient air quality and enable localized air quality near boilers and industrial process heaters to meet or be better than regional ambient air quality objectives for NO₂, as these objectives become more stringent over time. Engagement on the proposed amendments to Bylaw 1087 in coordination with preliminary engagement on reducing GHG emissions from large buildings will allow staff to obtain and consider feedback from affected audiences, and present it to the Board along with bylaw recommendations for consideration.

Staff recommend Alternative 1, to proceed with engagement on the proposed changes described in the attached discussion paper titled, “Proposed Amendments to the *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*, Draft Discussion Paper, May 2022.” Engagement is intended to provide sufficient opportunities for the public, businesses, member jurisdictions, First Nations, other orders of government, and other impacted or affected parties, to learn about the proposal and provide feedback.

Attachments

1. Proposed Amendments to the *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*, Draft Discussion Paper, May 2022
2. Engagement Plan for the Proposed Amendments to the Boilers and Process Heaters Emission Regulation Bylaw No. 1087, May 2022

References

1. [Clean Air Plan, 2021](#)
2. [Human Health Risk Assessment for Ambient Nitrogen Dioxide \(NO₂\), Health Canada, 2016](#)

49988707

Proposed Amendments to the Boilers and Process Heaters Emission Regulation Bylaw No. 1087

Draft Discussion Paper

May 2022



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DRAFT

SUMMARY

The Metro Vancouver Board of Directors approved the [Clean Air Plan](#) in September 2021 to guide air quality management actions over the next ten years and to support the Board's commitment to be a carbon neutral region by 2050. The Board also set interim targets to achieve a 45% reduction in greenhouse gas (GHG) emissions by 2030 from 2010 levels; and to meet or exceed ambient air quality objectives and standards set by Metro Vancouver, the provincial government, or the federal government.

Metro Vancouver regulates the discharge of air contaminants from boilers and process heaters under the *Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation, Bylaw No. 1087, 2008* (Bylaw 1087). Boilers are commonly used to generate heat or energy for buildings or in industrial or commercial settings; process heaters are used to generate heat for industrial processes. Combustion of fossil fuels or biomass in boilers and process heaters results in the discharge of air contaminants such as nitrogen oxides and GHG emissions, although combustion of biomass is considered carbon neutral. In November 2019, the Board adopted stricter Ambient Air Quality Objectives for nitrogen dioxide (NO₂) for the Metro Vancouver region that align with the 2020 NO₂ Canadian Ambient Air Quality Standards (CAAQS). Amendments to Bylaw 1087 are required to support ongoing attainment of the Ambient Air Quality Objectives. NO₂ CAAQS will become more stringent in 2025. At that time, staff will present recommendations to the Board regarding adoption of 2025 CAAQS.

The proposed amendments to Bylaw 1087 seek to establish more stringent emission limits for nitrogen oxides emitted due to the combustion of fossil fuels and biomass in boilers and process heaters. New requirements to demonstrate attainment of Metro Vancouver's ambient air

quality objectives and additional requirements for stack design are also being proposed.

The *Clean Air Plan* also calls for emission regulations to include measures to reduce GHG emissions, where feasible. About a quarter of regional GHG emissions is attributable to emissions associated with buildings due to combustion of fossil fuels. Staff are seeking Board approval to initiate a separate engagement to develop an approach for managing GHG emissions from large buildings (gross floor area greater than 2322 m² or 25,000 sq.ft.) for space and water heating.

This discussion paper is focused on the rationale and potential means for reducing the discharge of air contaminants from the use of boilers and process heaters in buildings and industrial facilities in the region. However, decisions regarding the adoption of new technologies and equipment should be informed by Metro Vancouver's proposed approach for managing GHG emissions from large buildings. Adoption of zero emission technologies can avoid the discharge of health-harming air contaminants as well as GHG emissions from buildings.

In addition, industrial facilities that might switch to renewable natural gas or biomass to achieve reductions in GHG emissions would need to manage their discharge of health-harming air contaminants in accordance with proposed amendments to Bylaw 1087, if adopted.

Public engagement on the proposed amendments to Bylaw 1087 will highlight connections with regional *Climate 2050* goals for buildings, district energy providers, and other industries regulated through Bylaw 1087. This public engagement will enable facility owners, operators, and other affected audiences to understand and provide feedback on the

ramifications for long-term capital and retrofit planning to comply with Bylaw 1087 and potential requirements to manage GHG emissions.

INTRODUCTION

Metro Vancouver adopted the *Climate 2050 Strategic Framework* in 2018 and endorsed the *Clean Air Plan* in 2021.

The targets in the Clean Air Plan are:

- Greenhouse gas (GHG) emissions are 45% below 2010 levels by 2030.
- The Metro Vancouver region is carbon neutral by 2050.
- Ambient air quality meets or is better than the federal, provincial, and regional ambient air quality objectives and standards.

Metro Vancouver is responsible for managing and regulating air quality in the region under authority delegated from the provincial government in the *BC Environmental Management Act*. Metro Vancouver protects public health and the environment through a tiered approach to managing the discharge of air contaminants that applies the use of site-specific permits, sectoral emission regulations, and provisions in the *Greater Vancouver Regional District (GVRD) Air Quality Management Bylaw No. 1082, 2008* (Bylaw 1082). Further to Bylaw 1082, the discharge of air contaminants by an industry, trade, or business is prohibited unless the discharge is conducted strictly in accordance with an emission regulation or a permit, or unless the discharge is specifically exempted from the prohibition in Bylaw 1082. In all cases, without exception, Bylaw 1082 prohibits any person from discharging an air contaminant so as to cause pollution. Emissions of air contaminants from boilers and process heaters, with a facility

capacity of 50 MW or less, are regulated under Bylaw 1087.

Activities and complex facilities with significant levels of emissions with the potential for high impacts on the environment and public health are generally authorized by site-specific permits.

Activities and less complex facilities that share similar air emission characteristics are generally authorized by emission regulations. Facilities can choose to seek authorization of their emissions under an emission regulation, if they meet all the requirements, or under a permit.

Metro Vancouver has developed two separate discussion papers for engagement on two related initiatives to reduce emissions of:

- Health-harming air contaminants from boilers used to provide heat or energy for buildings, commercial, industrial or institutional settings, and from process heaters used in industrial settings
- GHG emissions from large buildings

Air Contaminant Emissions from Boilers and Process Heaters

This discussion paper focusses on emissions of health-harming air contaminants from boilers and process heaters currently managed through Bylaw 1087. Bylaw 1087 covers requirements for the control of particulate matter, nitrogen oxides (NO_x), volatile organic compounds, and carbon monoxide emissions from boilers and process heaters.

NO_x emissions from boilers and process heaters result in formation of nitrogen dioxide (NO₂). There

is strong evidence that exposure to ambient NO₂ causes both short-term and long-term respiratory effects, and can cause mortality, as well as evidence that suggests links to a wide range of other adverse health outcomes. Additionally, NO₂ aids formation of ground-level ozone—an air contaminant that has adverse health effects on the respiratory system, and on crops and vegetation. In order to protect public health near boilers and process heaters and meet increasingly stringent ambient air quality standards for NO₂, emissions of NO_x from boilers and process heaters need to be reduced.

The proposed amendments described in this discussion paper would reduce emissions of health-harming air contaminants from boilers and process heaters with a facility capacity of 50 MW or less, including boilers found within large buildings. The proposed amendments include more stringent emissions limits for NO_x, additional requirements to demonstrate attainment of air quality objectives, and additional requirements for stack design.

The regulatory proposals in both of these discussion papers create opportunities for co-benefits in meeting our climate targets to avoid the worst impacts of climate change and to improve local and regional air quality. Electrification can simultaneously achieve zero emissions of health-harming air contaminants and GHGs. By signaling the long-term goals defined in the *Clean Air Plan*, building owners can make informed decisions about retrofits that will meet emission requirements for health-harming air contaminants and potential requirements for managing GHG emissions from large buildings.

Metro Vancouver will coordinate engagement on the proposed amendments related to discharge of air contaminants from boilers and process heaters with relevant engagement on managing GHG emissions from buildings and facilities equipped with boilers and process heaters. Engagement on the proposed air quality related amendments to

Bylaw 1087 is expected to be completed in 2022 and followed by the development of bylaw amendments for consideration by the Board in 2023. Additional engagement on more detailed proposals for managing GHG emissions from various sectors would proceed later, subject to Board approval. A set of requirements to manage overall emissions from each sector could be proposed to the Board after comprehensive engagement.

DRAFT

PURPOSE

The proposed amendments to Bylaw 1087 are expected to reduce the impact of emissions from boilers and process heaters on ambient air quality, and enable continuous improvement and protection of human health by supporting attainment of science-based ambient air quality objectives and standards.

The proposed engagement plan is designed to inform interested and impacted parties as well as the public of the rationale for amending Bylaw 1087 and the proposed changes. All feedback and comments will be welcomed. The engagement period will end November 30, 2022, but feedback will be considered until the Board makes a decision with respect to the proposed amendments.

This discussion paper may be of interest to:

- Members of the public
- Owners and operators of boilers and process heaters that fall within the scope of Bylaw 1087
- Owners and developers of buildings and industrial facilities with boilers and process heaters that fall within the scope of Bylaw 1087
- Energy utilities and district energy providers
- Consultants, manufacturers, and suppliers that provide services such as air emission control
- Businesses involved in the design, installation, maintenance or operation of boilers and process heaters
- First Nations
- Metro Vancouver's member jurisdictions
- Local government facility operators
- Other orders of government
- Public health experts and health authorities
- Other interested parties affected by the proposed changes or by air quality in the Metro Vancouver region

Boilers used for agricultural purposes are covered by a separate bylaw, therefore the proposed changes to Bylaw 1087 will not affect agricultural operations.

MEETING STRICTER AIR QUALITY OBJECTIVES

In 2016, Health Canada published a report titled “Human Health Risk Assessment for Ambient Nitrogen Dioxide” to support the development of the CAAQS for NO₂. In 2017, the Canadian Council of Ministers of Environment (CCME) adopted NO₂ CAAQS. NO₂ CAAQS will become more stringent in 2025 (Table 2). The Province of BC and the MVRD Board adopted the 1-hour and annual NO₂ 2020 CAAQS as the provincial air quality objectives and Metro Vancouver’s ambient air quality objectives for NO₂, respectively. Closer to 2025, staff intend to present recommendations to the Board regarding updating of Metro Vancouver’s ambient air quality objectives to meet or be better than the 2025 NO₂ CAAQS. Future NO₂ CAAQS and GHG requirements are an important consideration in decision-making related to upgrade boilers and process heaters in large buildings and industrial facilities.

The Board endorsed the *Clean Air Plan* in September 2021 signaling its commitment to protect human health and the environment while reducing GHG emissions. One of the three targets of this plan is to ensure that ambient air quality in the region meets or is better than the federal, provincial, and regional ambient air quality objectives and standards. Bylaw 1087 needs to be updated to enable continuous improvement in air quality and to continue meeting ambient air quality objectives in the vicinity of boilers and process heaters.

NO₂ is one of the key air contaminants associated with emissions from boilers and process heaters. Exposure to NO₂ is known to have adverse effects on human respiratory and cardiovascular health, even at low concentrations. Children, the elderly, and people with cardiac and respiratory conditions are particularly at risk.

Table 2: Nitrogen Dioxide (NO₂) Canadian Ambient Air Quality Standards (CAAQS)

Averaging time	Numerical Value	
	2020	2025
1-hour ^a	60 ppb	42 ppb
Annual ^b	17 ppb	12 ppb
^a The 3-year average of the annual 98th percentile of the daily maximum 1-hour average concentrations ^b The average over a single calendar year of all 1-hour average concentrations		

NO₂ also contributes to formation of other air contaminants like fine particulate matter and ozone—both of which are known to have adverse health effects even at low concentrations. Emissions from boilers and process heaters can lead to high ambient concentrations of NO₂. For these reasons, it is important to minimize the impact due to air contaminants discharged by using the best available control technology and by incorporating the most effective stack design to disperse emissions, informed by dispersion modelling where appropriate.

Zero-emission technology options for heating and cooling of buildings, such as electrification, offer opportunities to avoid NO₂ and other health-harming air contaminants, as well as greatly reduce GHG emissions. However, decisions regarding the adoption of new technologies and equipment should be informed by the approach being developed by Metro Vancouver for managing GHG emissions from large buildings.

In addition, industrial facilities that might switch to renewable natural gas or biomass to achieve reductions in GHG emissions would need to manage their discharge of health-harming air contaminants in accordance with proposed amendments to Bylaw 1087, if adopted.

GUIDING PRINCIPLES

The proposed amendments would align with the following principles:

- Continuously improve regional air quality to protect human health and the environment, and meet or exceed the federal, provincial and regional ambient air quality objectives and standards.
- Set efficient and effective requirements that will protect the public and the environment.
- Follow a 'discharger pay' principle.
- Set fair requirements that balance the impacts of emissions and the availability and affordability of best available control technology.
- Align with the management plans and strategies adopted by the Board, including the *Clean Air Plan* and *Climate 2050*.

WORKING WITHIN THE LEGISLATION

Under Section 31 of the *BC Environmental Management Act* (EMA), Metro Vancouver has delegated authority for air pollution control and air quality management within the Metro Vancouver region.

EMA states that the Metro Vancouver Board “may, by bylaw, prohibit, regulate and otherwise control and prevent the discharge of air contaminants”. EMA defines air contaminants as substances in the air that impact or are capable of impacting health, environment, property, or the normal conduct of business¹. Under Bylaw 1082, Metro Vancouver exercises its air quality regulatory authority with a system of permits, approvals, and emission regulations. Metro Vancouver can set emission regulations for emissions of air contaminants in the region that are more stringent than provincial regulatory requirements that apply elsewhere in the province.

Emissions from boilers and heaters with a facility capacity smaller than 50 MW are currently regulated under Bylaw 1087.

DRAFT

PROPOSED CHANGES TO BYLAW 1087

Existing boiler or process

heater: means one that is registered or operational before the Board adopts amendments to Bylaw 1087

Replacement boiler or process

heater: means one that would replace or upgrade an already registered or operational boiler or process heater.

New boiler or process heater:

means one that was not operational before the Board adopts amendments to Bylaw 1087, and does not replace an operational boiler or process heater.

The following changes are proposed:

1. Introduce mandatory dispersion modelling for new boilers or process heaters fueled by propane or natural gas:
 - when the facility capacity is greater than or equal to 10 MW
 - when the facility capacity is greater than 3 MW and less than 10 MW, and the discharge point(s) are within 100 metres of sensitive receptors such as schools, hospitals, and community care facilities

The owner or operator of such boilers or process heaters would need to conduct dispersion modelling *at the facility design*

stage to demonstrate attainment of Metro Vancouver's ambient air quality objectives at nearby sensitive receptors.

Operators of boilers and process heaters fueled by biomass are already required to conduct dispersion modelling under Bylaw 1087, Section 29 (1).

2. To better assess potential impacts of emissions from any boiler or process heater, the District Director may require additional testing and modelling of emissions at any time, including wind tunnel testing or computational fluid dynamics (CFD) modelling for nearby impacts. Section 29(2) of Bylaw 1087 already clarifies that the District Director may require an owner or operator to conduct dispersion modelling.
3. If dispersion modelling shows that modelled impact due to emissions from a new boiler or process heater exceeds an ambient air quality objective, the operator or owner of a new boiler or process heater would be required to make changes to the discharge of air contaminants and/or stack configuration to demonstrate attainment. Alternatively, the operator or owner of a new boiler or process heater would be required to conduct ambient air quality monitoring in accordance with an NO₂ monitoring plan approved by the District Director and implement an NO₂ exposure mitigation plan approved by the District Director. The District Director may require the operator to make ambient air quality data publicly available, or provide other relevant information, in a manner acceptable to the District Director.
4. Owners or operators of existing boilers or process heaters that demonstrate non-

attainment of Metro Vancouver's air quality objectives in any dispersion modelling required by the District Director would have to demonstrate attainment within ten years of demonstrating non-attainment or when replacing an existing boiler or process heater, whichever is sooner. This timeframe is proposed to allow sufficient time for capital planning for replacement of boilers and process heaters, and consideration of the changing regulatory environment for GHG emissions.

5. Emission discharge stacks would have to be designed to discharge air contaminants vertically from all new boilers or process heaters. A minimum exit velocity is being proposed for all new boilers and process heaters, subject to operational feasibility. Rain caps on stacks would be prohibited as they are known to impede dispersion of emissions. This is to enable good dispersion of air contaminants and minimize adverse impacts on nearby sensitive receptors.
6. To minimize the discharge of NO_x, any new or replacement boilers and process heaters fueled by natural gas or propane would have to be ultra-low NO_x (emissions of NO_x not to exceed 20 mg/m³). Currently, the NO_x emission limit for new or modified boilers and process heaters fueled by natural gas or propane is 60 mg/m³.
7. Emissions of NO_x from any new or replacement boilers and process heaters fueled by biomass would not be allowed to exceed 120 mg/m³. Currently, Bylaw

1087 does not include a NO_x emission limit for boilers and process heaters fueled by biomass.

Metro Vancouver's Clean Air Plan sets a target of 45% reduction in GHG emissions from 2010 levels, by 2030.

Electrification and zero-emission district energy can eliminate emissions of health-harming air contaminants and GHG simultaneously. These technologies would enable a facility to be prepared for the changing regulatory environment for GHG emissions. Zero emissions would also satisfy Bylaw 1087's air quality requirements.

8. By January 1, 2040, emissions of NO_x from all existing boilers and process heaters fueled by natural gas or propane would not be allowed to exceed 20 mg/m³; and emissions of NO_x from all boilers and process heaters fueled by biomass would not be allowed to exceed 120 mg/m³. This would enable continuous improvement of air quality near boilers and process heaters and at the regional level.

ADMINISTRATION OF THE EMISSION REGULATION

Metro Vancouver's regulatory system includes a system of user fees which are intended to recover the costs of developing and administering permits and regulations, following a 'discharger pay' principle. The costs associated with administering Bylaw 1087 are intended to be covered by registration and annual fees.

Following public engagement in early 2021, the Board adopted the *Air Quality Management Fees Bylaw No. 1330* on October 29, 2021. That resulted in updates to emission fee rates that would apply to annual fees payable under Bylaw 1087. Fees set out in Appendix 1 of Bylaw 1087 will be revised to align with Bylaw 1330. The updated registration and annual fees payable under Bylaw 1087 are expected to take effect in 2023, subject to the Board's approval. NO_x concentrations for biomass boilers deemed to be used in the calculation of fees, specified in Appendix 1 of Bylaw 1087, would be revised to be consistent with the proposed emission limits when presented to the Board for consideration. No further changes are proposed at this time.

PROVIDING COMMENTS ON THE PROPOSED AMENDMENTS

Metro Vancouver is seeking input on the proposed amendments to the *Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008*, from the public as well as interested and impacted parties. Metro Vancouver welcomes feedback with respect to the regulatory proposals outlined in this

discussion paper. The Board will receive a summary of the inputs received.

Metro Vancouver staff and contractors will treat comments received with confidentiality; please note that comments you provide and information that identifies you as the source of those comments may be publicly available if a freedom of information (FOI) request is made under the *Freedom of Information and Protection of Privacy Act*. If you have any questions or comments regarding the engagement process, please call 604-432-6200.

Metro Vancouver invites you to provide feedback on this discussion paper by November 30, 2022 to AQBylaw@metrovancover.org. Feedback will be considered until the Board makes a decision in respect of the proposed amendments.

Thank you for taking the time to consider and provide input on the proposed amendments.

ENGAGEMENT PLAN

The discussion paper titled “Proposed Amendments to the *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087*” will be reviewed with the Metro Vancouver Climate Action Committee and with the MVRD Board prior to engagement with relevant levels of government, First Nations, interested and affected groups, and the public. The engagement will focus on those likely to comment, be impacted, or have a role in implementation of the proposed amendments; and will centre around the discussion paper which describes amendment proposals and implementation timeline. The next steps in the engagement process will include:

- Creation of a project webpage and FAQ document
- Initiating discussions and correspondence with the identified audiences
- A combination of virtual and in-person engagement events
- An online feedback form
- A dedicated email address that will be monitored by the project team to answer any project related enquiries

The engagement will be coordinated with initial research and preliminary engagement on managing GHG emissions from large buildings in Metro Vancouver, with joint engagement with overlapping audiences.

The results of the engagement will be compiled and analyzed and will then be used to refine the proposed amendments to Bylaw 1087 for Board consideration. An engagement summary report, which will describe how feedback is reflected in the proposed amending bylaw, will be presented to the Metro Vancouver Climate Action Committee and the MVRD Board.

Audiences

The following have been identified as those who might be interested or may be impacted by the proposed amendments:

- member jurisdictions
- building owners and managers
- institutional facility owners and operators
- industrial facility owners and operators
- industry associations working in building management and in equipment installation and repair
- other orders of government
- First Nations
 - Where First Nations may be considering or have implemented aligned regulations
- Energy utilities and district energy providers
- General public

Throughout the engagement process, it will be recognized that there are a number of initiatives from Metro Vancouver, member jurisdictions and other orders of government that are similar or aligned with the proposed changes to Bylaw 1087. This will be acknowledged and efforts will be taken to avoid audience confusion.

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Methods and Timing

In order to engage with the identified audience, the following methods are being proposed as part of the engagement strategy:

Method	Purpose
Metro Vancouver website	Provide up to date information about the engagement process and provide an FAQ document
Communications to identified audiences	Provide notification to the identified audience that engagement is beginning, and provide information on opportunities to engage, and on how to provide input
In-person and virtual engagement events	Send invitations to member jurisdictions and interested and affected groups to participate in events that will provide an update on the initiative and solicit questions and input
Presentations to existing committees	Offer to present at existing committees including staff from member jurisdictions and regulatory agencies, such as Lower Fraser Valley Air Quality Coordinating Committee (LFVAQCC), to provide updates and gather input
Invitation letter to meet with First Nations	Offer to consider any issues or concerns from First Nations, and provide additional information as requested. Clarify if there are implications for buildings located on First Nation's lands, including leased lands.
Online feedback form	Provide an online opportunity for interested individuals and groups to provide input

If authorized by the Board, engagement is expected to take place between June and November 2022. There may be additional engagement needs that arise through this process and staff will adjust and accommodate where possible.

To: Regional Parks Committee

From: Jamie Vala, Division Manager, Planning and Resource Management, Regional Parks

Date: April 22, 2022 Meeting Date: May 18, 2022

Subject: **Regional Parks 2021 Annual Report**

RECOMMENDATION

That the MVRD Board receive for information report dated April 22, 2022, titled “Regional Parks 2021 Annual Report”.

EXECUTIVE SUMMARY

In 2021, Metro Vancouver worked to keep regional parks open and visitors safe during the continuing COVID-19 pandemic and multiple extreme weather events. There were 16.3 million visits to regional parks - a 37% increase from visitation in 2019.

Staff demonstrated flexibility and creativity to continue the delivery of park programs safely. As a result, 23,670 people were able to take part in 822 programs, events, and outreach activities while 3,751 volunteers contributed 11,606 hours to stewardship, education, and interpretive programs. Nearly 76 hectares of land was added to the Regional Parks system while staff advanced numerous planning, design and asset management initiatives.

PURPOSE

To provide the *Regional Parks 2021 Annual Report* to the Regional Parks Committee for information.

BACKGROUND

The preparation of the *Regional Parks 2021 Annual Report* is identified as an action in the Regional Parks Committee 2022 Work Plan.

REGIONAL PARKS ANNUAL REPORT SUMMARY

In 2021, Metro Vancouver continued to keep regional parks open and visitors safe during the COVID-19 pandemic and multiple extreme weather events. Regional Parks’ unusually high visitation continued with 16.3 million visits, providing residents an outlet to connect with nature and increase their physical and mental wellbeing. Even with a 1% decrease over 2020 visitation annual records were set at 9 regional parks and greenways.

Staff continued to develop innovative approaches to deliver park programs in 2021. As a result, 23,670 people were able to take part in 822 programs, events and outreach activities while 3,751 volunteers contributed 11,606 hours to stewardship, education and interpretive programs. Innovative approaches adopted in 2021 include developing and delivering a new webinar-and-walk program format as well as collaborating with community partners on new virtual programs. These innovations helped Regional Parks broaden the outreach of public programs and connect more

people to nature. In 2021 Regional Parks also offered a “Pop-Up” Park exhibit at the PNE which provided 2,200 visitors with a sense of what a nature-based regional park experience might be like.

Regional Parks continued its important work of protecting regionally important natural areas with nearly 76 hectares of parkland valued at just over \$15.4 million being added to the system. This included the noteworthy addition of two parcels totaling 63.4 hectares to the Codd Wetland Ecological Conservancy Area.

In 2021, staff supported the protection of nature through initiatives like the inventory of aquatic environments using environmental DNA detection, and completion of 26 restoration projects in 15 regional parks with the support of partner groups like the Pacific Parklands Foundation, Creative BC and Tree Canada. Regional Parks also caught vandals damaging natural features in Grouse Mountain Regional Park through the building of an unsanctioned rock climbing route. This coordinated investigation effort resulted in Regional Park’s first criminal conviction and served as a reminder to the public that regional park resources are protected.

The attached *Regional Parks 2021 Annual Report* provides an overview of the year and will be used to share Regional Parks’ activities with elected officials, residents, park visitors, supporters and volunteers.

ALTERNATIVES

This report is presented for information. No alternatives are presented.

FINANCIAL IMPLICATIONS

This is an information report. There are no financial implications associated with this report. The production of the annual report is undertaken with staff resources included annually in the MVRD Board approved Regional Parks budget.

CONCLUSION

This report summarizes the *Regional Parks 2021 Annual Report* for information. It provides an overview of Regional Parks’ visitor and facility use, programming, volunteering, and activities in 2021 including:

- 16.3 million visits to regional parks and greenways
- 76 hectares of land added to grow the Regional Parks system
- 23,670 people were able to take part in 822 programs, events and outreach activities
- 3,751 volunteers and park partners contributed 11,606 hours to stewardship, education and interpretive programs

The annual report will be used to support ongoing park planning by MVRD and local municipalities for capital planning, future facility development, program delivery, and resource management activities.

Attachment

Regional Parks 2021 Annual Report
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Regional Parks Annual Report 2021



Burnaby Lake Regional Park

Regional Parks Committee Members

John McEwen (Chair) - Anmore

Michael Wiebe (Vice Chair) - Vancouver

Pietro Calendino - Burnaby

Diana Dilworth - Port Moody

Laurie Guerra - Surrey

George Harvie - Delta

Craig Hodge - Coquitlam

Tracy Miyashita - Pitt Meadows

Lisa Muri - North Vancouver District

Maureen Nicholson - Bowen Island

Darrell Penner - Port Coquitlam

Kim Richter - Langley Township

Jamie Ross – Belcarra

Bill Soprovich - West Vancouver

Mary Trentadue - New Westminster



A Message from the Regional Parks Committee Chair

For over 50 years, Metro Vancouver’s regional parks system has protected natural areas for people to connect with nature, reduce stress, and maintain their physical and mental health. As the sustained extraordinary visitation rates of the past year have shown, residents continue to rely on regional parks for their well-being. Regional parks experienced strong visitation in 2021, with records set at 9 regional parks and greenways. Over 16.3 million visits connected people with important protected natural areas — a 37% increase from 2019.

As part of our mandate to protect natural areas, nearly 76 hectares of parkland were added to the Regional Parks system in 2021. The Metro Vancouver Board of Directors supported this important function by adding \$4 million to the Regional Parks Land Acquisition and Development Fund.

The pandemic required the continued innovative delivery of parks programs within COVID-19 protocols. Metro Vancouver successfully met and exceeded expectations, working diligently to meet visitor needs and ensure residents continued to have safe outdoor spaces to enjoy the health benefits of nature. Because of this, 21,470 people were able to take part in 804 programs, small events and outreach activities, while 3,751 volunteers including park partners contributed 11,606 hours to stewardship, education and interpretive programs.

The 2021 Regional Parks Annual Report marks notable achievements of the past year as Metro Vancouver continues to pursue the 2019 – 2022 Board Strategic Plan goals, including advancing our mission to “protect and connect,” ensuring financial sustainability, and fostering collaboration and partnerships. In October, Metro Vancouver and Tsleil-Waututh Nation announced that Belcarra Regional Park will become known as *təmtəmíxʷtən*/Belcarra Regional Park — a new name that reflects the park’s history and marks an important milestone in the relationship between Tsleil-Waututh Nation and Metro Vancouver.

We appreciate another year of hard work by staff during this challenging time, and look forward to another year of safe enjoyment of our regional parks and greenways system.

A handwritten signature in black ink, appearing to read 'J. McEwen'. The signature is fluid and stylized, with a long horizontal stroke extending to the right.

John McEwen, Committee Chair

2021 in Review

In 2021, Metro Vancouver Regional Parks welcomed over 16.3 million visitors, with records set at 9 regional parks and greenways. Over 76 hectares of high-value natural areas were added to the Regional Parks system to help fulfil our important role in protecting the regions important natural areas and help mitigate climate change impacts to the region. 822 public programs, events and outreach activities inspired 23,670 people, and 3,751 volunteers contributed 11,606 hours to stewardship, education and interpretive programs.

Regional Parks staff continue to pursue the 2019 – 2022 Board Strategic Plan goals:

1. Advancing our mission to “Protect and Connect”
2. Ensuring financial sustainability
3. Fostering collaboration and partnerships





Tsleil-Waututh Nation drum at renaming ceremony, təmtəx̣ʷtən/Belcarra Regional Park (October 2021)

təmtəx̣ʷtən/Belcarra Regional Park Renaming

təmtəx̣ʷtən means “the biggest place for all the people” in the həŋqəmiñəm language. təmtəx̣ʷtən/Belcarra Regional Park is the site of the largest of Tsleil-Waututh’s ancestral villages. On October 8, 2021 the park was renamed in a ceremony demonstrating ongoing efforts to promote reconciliation with Indigenous communities. The renaming of the park was a result of the signing of a co-operation agreement by the Tsleil-Waututh Nation and Metro Vancouver and is one way in which the Tsleil-Waututh Nation’s ancestral ties to the site are being recognized.

Our Mission

Regional parks contribute to a livable region by conserving natural assets and connecting people to nature. They enhance the quality of life of residents and visitors and provide opportunities to experience nature. The important natural landscapes protected in regional parks contribute ecological goods and services to the region and mitigate climate change. The regional parks service fosters environmental interpretation, education and stewardship through community development and promotes a sense of responsibility for, and connection to, the place in which we live.

Our Role

Protecting Metro Vancouver's important natural areas and connecting people with them.

Our Values

The Necessity of Nature



Wellness



The Sharing of Expertise



Stewardship





Barnston Island Regional Park

Challenges

2021 was another challenging year. COVID-19 was still with us, and staff continued to respond to the changing public health emergency. The extraordinarily high visitation levels experienced in 2020 continued into 2021 and the region experienced multiple extreme weather events that included an extended heat dome, a tornado, and multiple atmospheric rivers. In the face of these challenges, staff ensured that parks were open and visitors were safe.



Growing the System

Regional parks play a crucial role in making Metro Vancouver a desirable place to live, work and play. *Regional Parks Land Acquisition 2050** is Metro Vancouver’s key strategy for contributing to regional livability by protecting regionally important natural areas. Metro Vancouver advances delivery of the strategy each year in collaboration with member jurisdictions, senior levels of government and others.

www.metrovanancouver.org/services/parks/ParksPublications/RegionalParksLandAcquisition2050.pdf

* Adopted by the Metro Vancouver Regional District (MVRD) Board in 2018



**Regional Parks Land Acquisition and Development
Fund increased from \$11.6 million in 2020 to
\$15.6 million in 2021**

76.7 hectares acquired in 2021

14.3 hectares Codd Wetland Ecological Conservancy Area

3.4 hectares Kanaka Creek Regional Park

59 hectares Codd Wetland Ecological Conservancy Area

Totaling just over \$15.4 million in value

Partnering with Communities

As part of Metro Vancouver’s commitment to partnering with our communities, contribution funding is provided annually to these organizations:

Park Associations

Non-profit groups that work with Regional Parks staff on projects and activities ranging from habitat restoration to nature education.

1. Boundary Bay Park Association*
2. Burnaby Lake Park Association
3. Colony Farm Park Association
4. Derby Reach/Brae Island Parks Association
5. Kanaka Education and Environmental Partnership Society
6. Minnehada Park Association
7. Pacific Spirit Park Society

*Boundary Bay Park Association dissolved as a society in 2021. Volunteers will continue to make contributions at the park without the governance structure that has been in place since July 2013.

CTS Youth Society Connect | Teach | Sustain



CTS Youth Society is a non-profit organization dedicated to developing leadership and social responsibility in youth through environmental awareness, stewardship and outdoor education.

Our Foundation



Pacific Parklands
FOUNDATION

Supporting Metro Vancouver
Regional Parks

Pacific Parklands Foundation (PPF) is a registered charity dedicated to the conservation and enhancement of Metro Vancouver’s regional parks.



CTS youth at Camp Capilano, Capilano River Regional Park

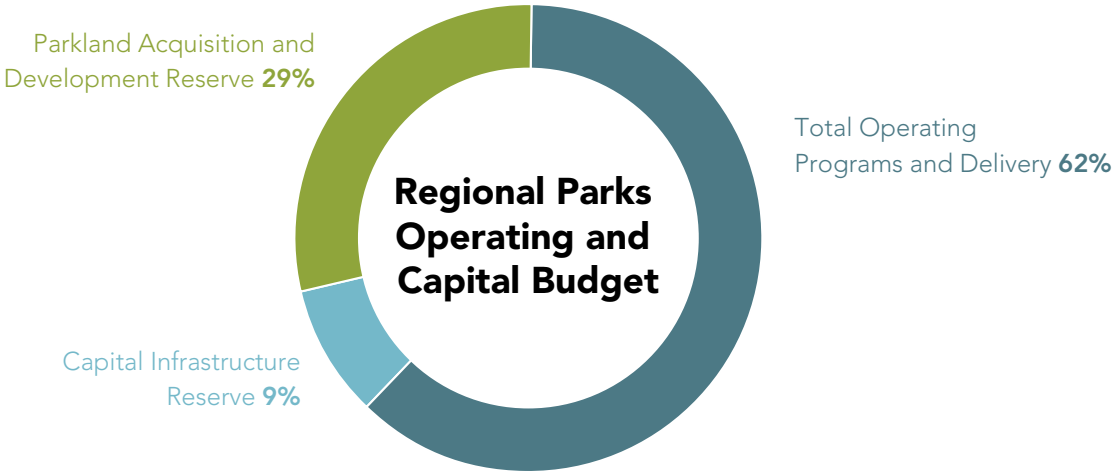


Widgeon Marsh Regional Park

Regional Parks Provide Significant Value

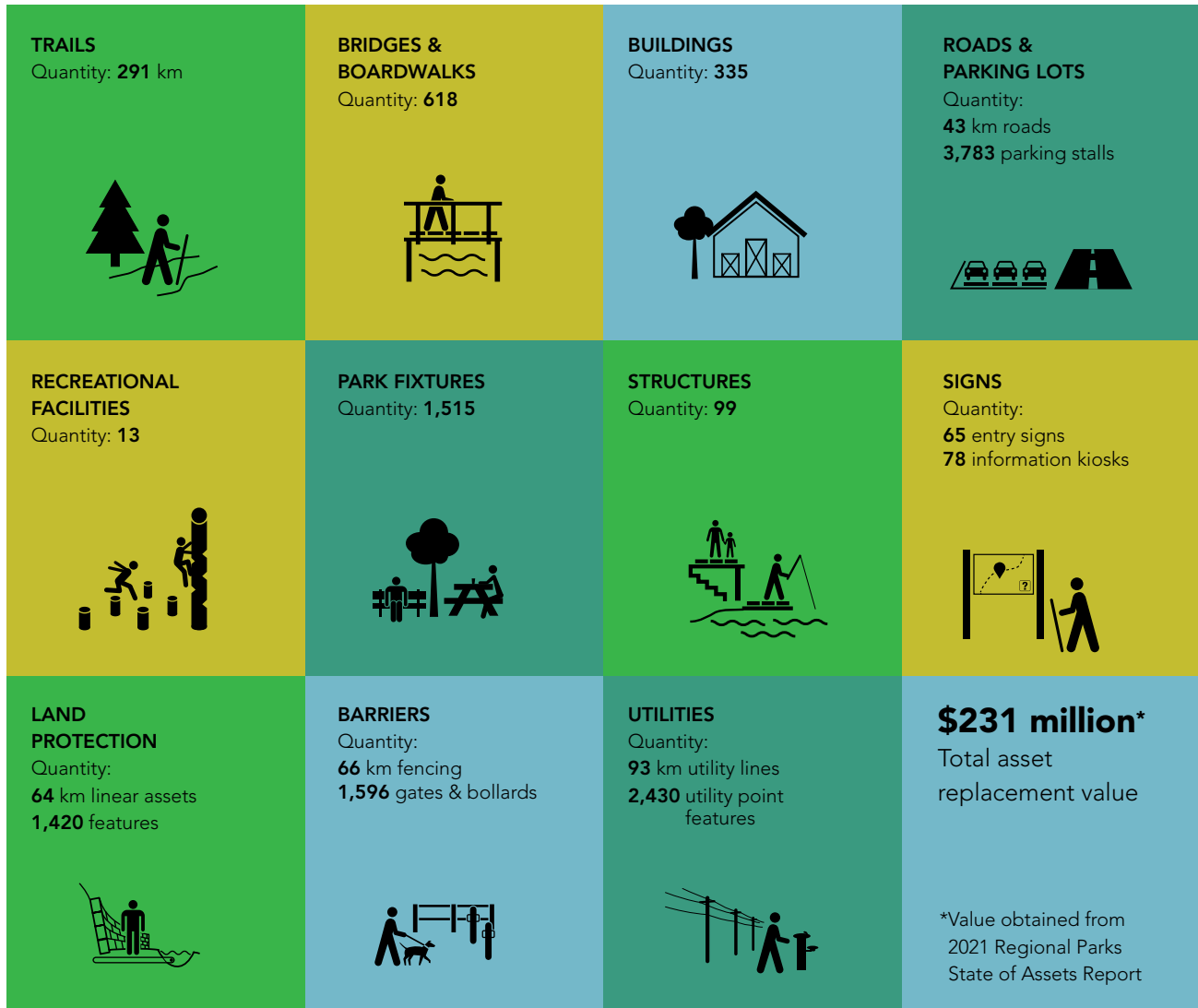
Regional Parks is primarily funded through the annual Metro Vancouver Regional District tax requisition. This core revenue source is supplemented by modest income from user fees, capital reserves and occasionally sustainability reserve funds and external revenues such as federal or provincial grants.

Recognizing the importance of protecting regionally important natural areas, the Metro Vancouver Board approved increases to the Regional Parks Land Acquisition Fund in 2019, 2020 and 2021.



Building and Maintaining Park Assets

Each year, Regional Parks staff maintain thousands of built assets, including:





Crippen Regional Park

2021 Accomplishments

- Worked with First Nations and the City of Coquitlam to advance design and develop Widgeon Marsh Regional Park
- Advanced the Grouse Mountain Regional Park trail and site improvements project with support of a federal infrastructure grant
- At Derby Reach Regional Park in the Township of Langley, construction was initiated on a new full service washroom building to improve the visitor experience at one of our busiest, most accessible day use areas in the system
- Advanced implementation of the provincial grant-funded Davies Orchard project along with the development of access, trails and ecological enhancements on Dorman Point at Crippen Regional Park
- Contributed to the design and planning of the Iona Waste Water Treatment Plant replacement project

Regional Parks Building Strategy and Asset Management Plan



In 2021 staff advanced the Regional Parks’ building strategy and asset management plan. When completed this plan will confirm levels of service for all asset types and help prioritize investment, develop maintenance and replacement plans, and confirm renewal expenditure requirements as part of the service’s annual budgeting process.



Protecting Important Natural Areas

In 2021, Regional Parks protected:

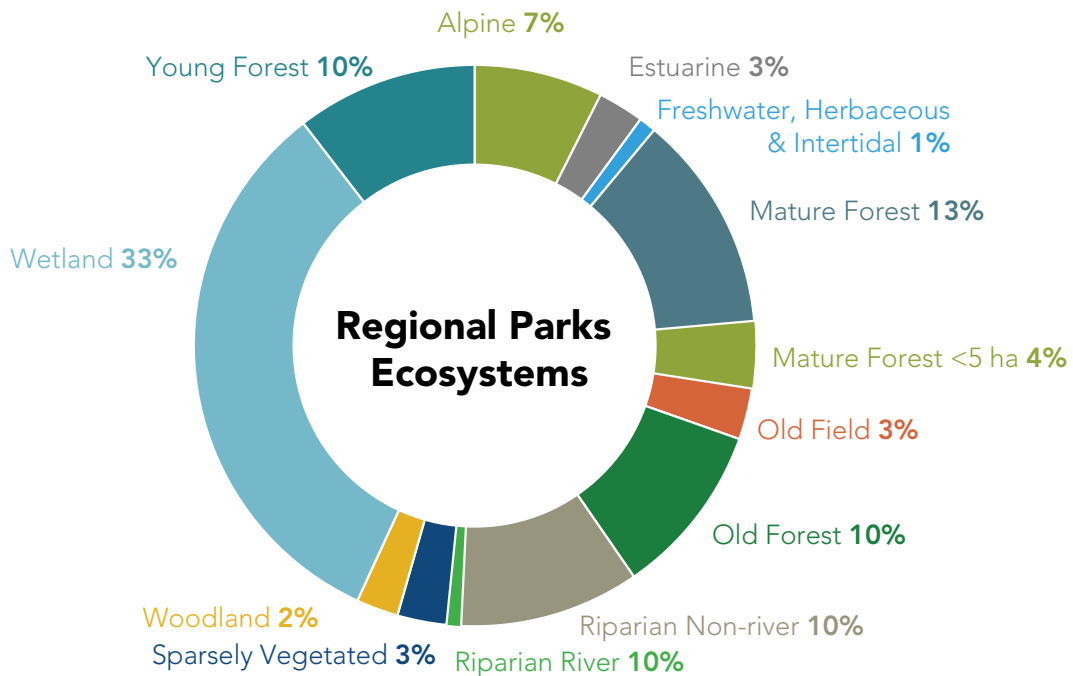
13,824 hectares – including **9,751** hectares of ecological areas

23 regional parks

2 regional park reserves

5 regional greenways

2 ecological conservancy areas



Natural Resource Management

Regional Parks staff work throughout the year to protect and conserve ecosystem health.

Goals

1. Ensure ecosystem health and long-term resiliency to conserve diverse biological communities and their associated habitats
2. Provide opportunities for public to connect with natural areas while conserving the integrity and resilience of ecosystems
3. Provide opportunities for public involvement in natural resource management through partnerships and stewardship activities

2021 Accomplishments

- Inventoried aquatic environments using environmental DNA detection with Sustainability Innovation Fund support
- Developed guidelines for managing natural resources in regional parks
- Completed 26 restoration projects in 15 regional parks including
 - a. 9 projects supported by the Pacific Parklands Foundation through a collaborative industry initiative organized by Creative BC's sustainable motion picture initiative REEL Green™ (\$165,000)
 - b. 2 tree planting projects supported by Tree Canada (\$7,914)
 - c. 3 projects supported by the Pacific Parklands Foundation's George Ross Stewardship Legacy Fund (\$26,600)
- Created a regional parks restoration sites spatial database
- Managed invasive species and maintained restoration sites
- Conducted numerous natural resource monitoring and research programs including trail camera studies, amphibian and bird surveys, bat inventories, water quality and quantity studies, terrestrial ecosystem mapping, forest health studies and greenhouse gas studies
- Reviewed over 100 research permits for academic groups, government agencies, consultants and others



What Our Stewardship Volunteers Say

“Helping the environment is really important & helping out at a park near you is a good way to do that.”

BC Girl Guides tweet

Aldergrove Regional Park – Restoration of Lower Plateau



The southern portion of Aldergrove Regional Park has been farmed for many years. As part of its natural resource management program, Metro Vancouver is converting poor quality agricultural lands to natural habitat through wetland creation, old field management and reforestation. In 2021 Regional Parks converted a 2.4 hectare field to a new forest. Supported by a Pacific Parklands Foundation Reel Green grant of \$50,000, 230 volunteers spent 428 hours planting 2,500 native conifer and deciduous trees, installing tree guards and mulching. The new forest will support the more than 200 vertebrate species that use the park.

Parks Operations and Public Safety

Parks Operations and Maintenance

Keeping regional parks and park assets at the standard of care expected by visitors each year takes an incredible amount of staff effort. Each year, staff ensure regional parks are maintained for safe public enjoyment 365 days of the year. Throughout 2021, staff worked hard to provide residents safe opportunities to spend time in nature.

Safe Regional Parks and Park Visitors

Staff work to fairly and consistently educate members of the public on park rules and behaviour expectations as Metro Vancouver to protect natural assets and provides a safe and enjoyable visitor experience.

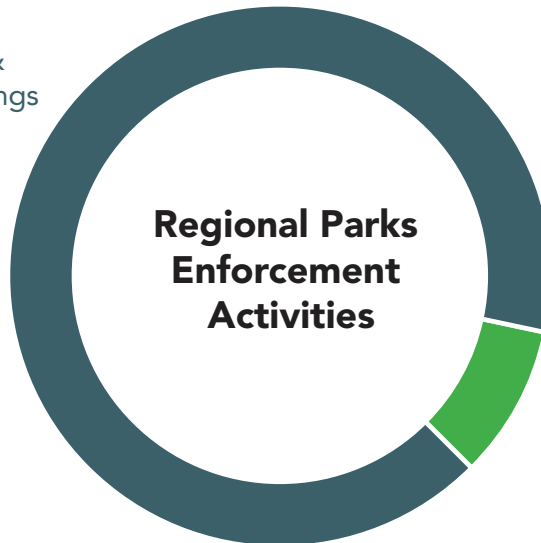
Using good park design, education, and as a last resort, enforcement, staff keep visitors safe by:

- Providing a uniformed presence in regional parks
- Educating park visitors on safe use of regional parks
- Investigating and responding to public safety concerns
- Coordinating patrols and response from emergency response agencies

Educational
Park Notices &
Written Warnings

91%

**Regional Parks
Enforcement
Activities**



9%
Park Orders &
Notice of Bylaw
Violations



Grouse Mountain Regional Park

Unsanctioned Rock Climbing Route Construction

Metro Vancouver’s Regional Parks Regulation Bylaw makes it illegal to cut or damage any natural park features. In 2021, two people plead guilty to damaging the park’s natural features to create an unsanctioned rock climbing route. Damage included cutting down 23 trees and limbing 12 more, scrubbing mosses and lichens from the rock face and drilling 14 climbing anchors into the rock.

Consequently, they were fined and banned from entering Grouse Mountain Regional Park for one year. Regional Parks’ first ever criminal conviction resulted from a coordinated effort by staff to catch the vandals in the act.





Capilano Regional Park

Managing Parks Today and into the Future

Metro Vancouver staff support the long-term development and management of regional parks and greenways through the delivery of original research projects and the development of plans and policies. Regional Parks policies support day-to-day decision making while system and park level plans describe a long-term vision for the Regional Parks system and guide resource management, development, operations and programming.

2021 Accomplishments

- Completed a concept plan supporting public access and ecological enhancement for the recently acquired Dorman Point area of Crippen Regional Park
- Advanced work on studying the opportunities and constraints around promoting improved connectivity of regional parks by public transit, bicycling and passenger ferries
- Completed phase 1 engagement on a management plan for the Delta South-Surrey Greenway and Delta Nature Reserve
- Completed a draft of the updated Regional Parks Plan to ensure that it addresses climate change, social equity, and the health and well-being of residents, and the continued exploration of pathways to reconciliation with Indigenous Peoples.
- Completed data and mapping projects on flood risk and other park resources and supported the corporation's open data platform



Regional Parks Plan Update

In 2021 Regional Parks commenced a multi-year effort to update its Regional Park Plan. This plan, last updated in 2016, sets out the vision, goals and strategies that guide the operation and expansion of the regional parks service. The updated plan will address climate change, social equity, and the health and well-being of residents. The plan also seeks

to continue exploring pathways to reconciliation with Indigenous Peoples. Staff undertook a comprehensive process of research and information gathering during the year which culminated in the development of a draft plan for public engagement.

Plan Summary

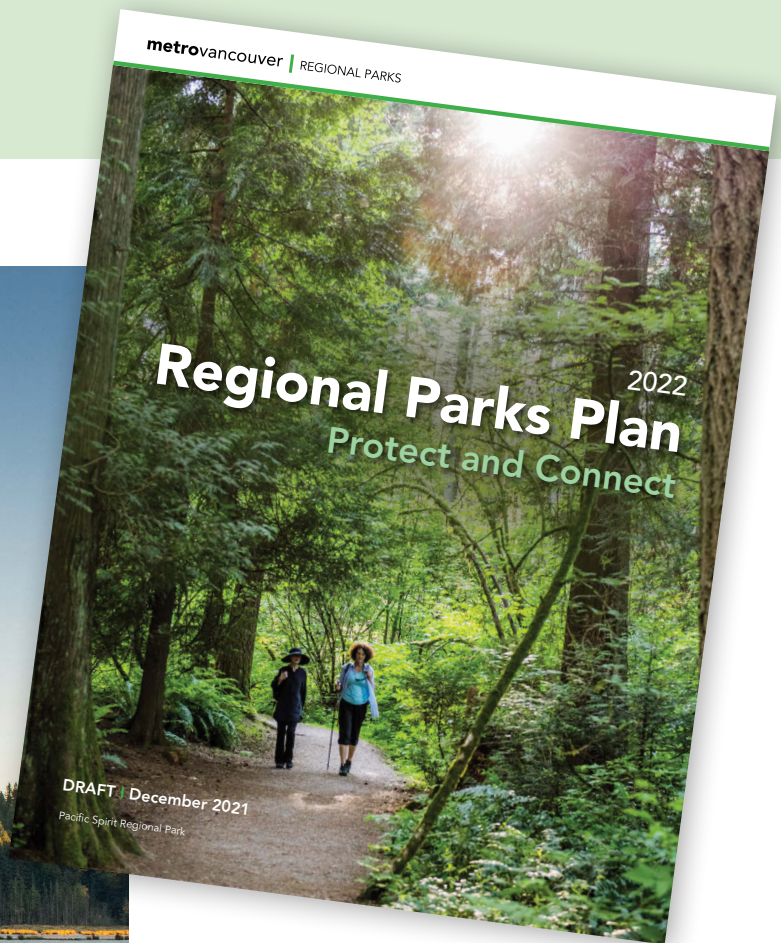
Role
Metro Vancouver Regional Parks protect natural areas and connect people to nature.

Vision
Protected and resilient, connecting people to nature, with benefits for all.



8 Regional Parks Plan 2022

Minnethada Regional Park



Connecting People with Nature

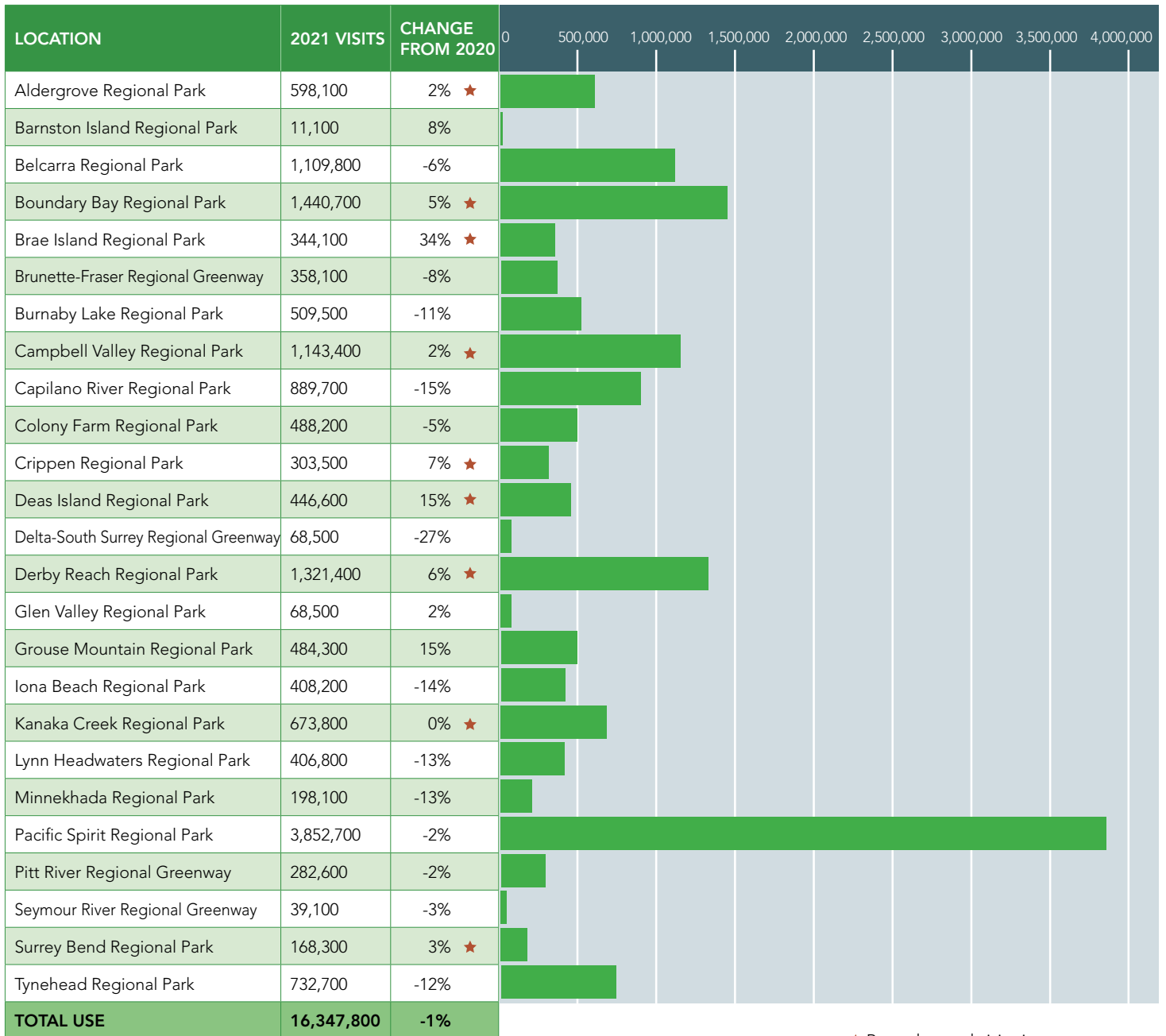


Visits

16.3 million park visits in 2021
(37% increase from 2019)

9 regional parks received record number of visits

5 months with record visits

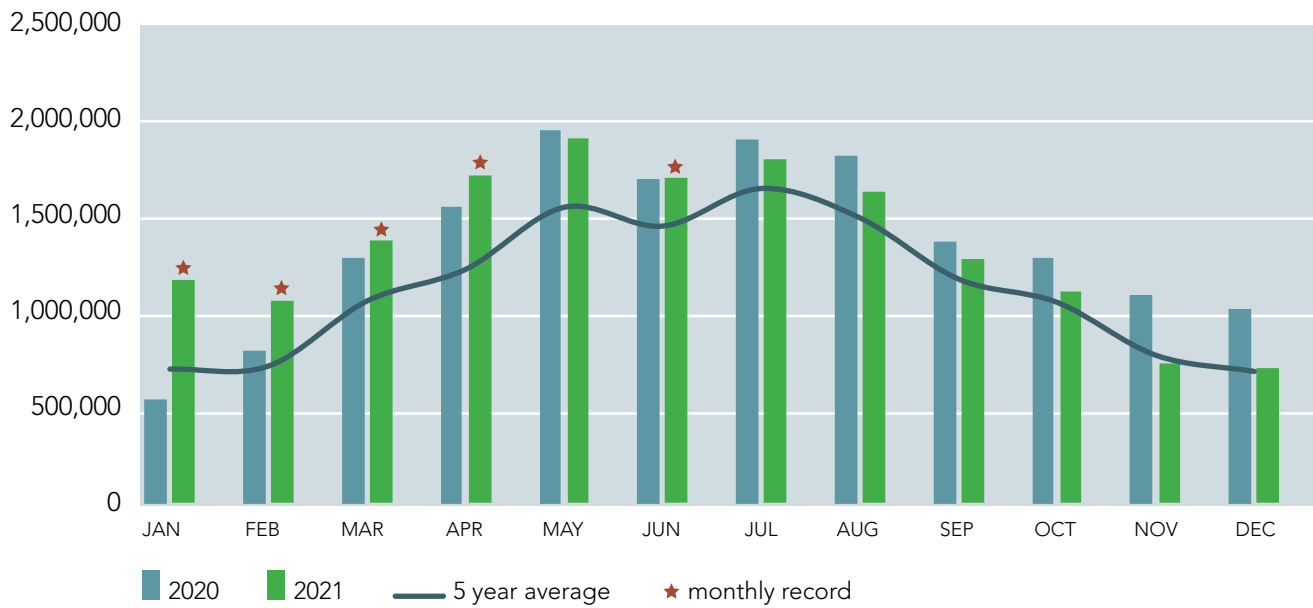


Note: Park estimates are rounded to the nearest hundred in this figure.

Data counters installed at park entrances (roads and trails) are used to produce annual and monthly visitation estimates for each park.



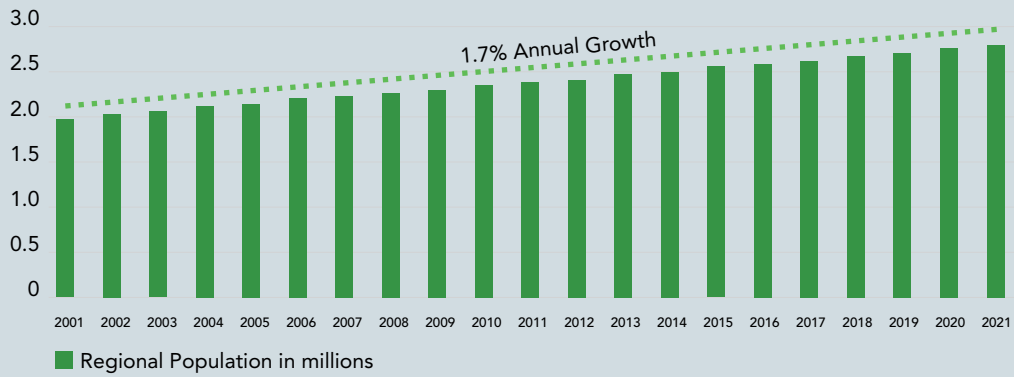
2020 Monthly Visits



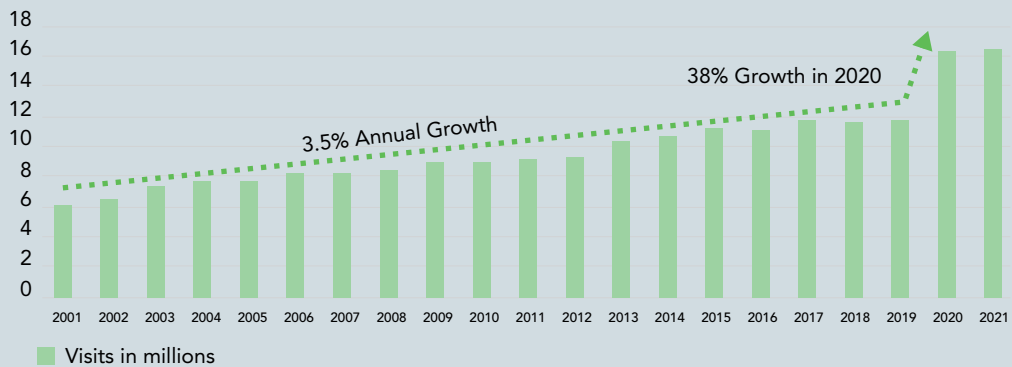


Annual Trends

Metro Vancouver Regional Population (2001 - 2021)



Regional Parks Annual Visits (2001 - 2021)



Public Programs and Events



23,670
total participants



822
total programs, events
and outreach activities

Most Metro Vancouver residents live in an urban environment with less access to natural areas than previous generations. This growing urban population has increased visitation in existing parks and is placing greater pressure on local green spaces.

Public programming in regional parks responds to these challenges by deepening audience understanding, appreciation and protection of the natural environment. Programs and events are designed to be experience-based and to inspire appreciation and understanding of the environment.

2021 Accomplishments

- Completed Public Programming Strategy implementation planning
- Delivered new webinar-and-walk program format to deepen participants' knowledge and connection to nature
- Created and delivered new virtual programs to almost 1,900 participants (including 600 from schools targeted to broaden our base) in collaboration with community partners e.g., Pacific Parklands Foundation, Fraser Valley Regional Library, Royal Astronomical Society of Canada, scouts, guides and Surrey School District
- Connected with over 2,200 people through the "Pop-Up Park" exhibit at the PNE, providing visitors with a sense of what a nature-based regional park experience might be like.
- Using roving and nature stations, staff and volunteers informed over 407 visitors about regional parks safety, volunteering, and park management concerns such as off-leash dogs

Light Up the Night

Regional Parks interpretive staff delivered a new lantern-lit interpretive walk and lantern-making webinar for Tynehead Regional Park that highlighted how salmon feed the rainforest. This peaceful and reflective nature experience was offered during Diwali and attracted approximately 100 participants.





Burnaby Lake Regional Park

What Our Program Participants Say

"[The park interpreter] did an outstanding job educating, entertaining, and holding our interest. Not an easy feat when the group ranged in age from 3 to 79. We had a wonderful time and would not hesitate to recommend this program to others. Thank you very much!"

Rob Clark, Peace Portal Alliance Church

"This was the best virtual presentation our class has been part of so far. It was interactive and engaging! There was ample opportunity to have students voice their questions and opinions. The pre activities and the post activities that were provided were also great for making it a more comprehensive experience."

Krista Beaton, Teacher, W.E. Kinvig Elementary
Pond Peeking Virtual Field Trip Participant



Group Programs

9,186 participants

215 virtual fields trips

266 in park field trips
and workshops



Public Programs

14,484 participants

341 programs

Facility Reservations

Regional parks have rentable facilities suitable to group picnicking and camping, weddings, special events, meetings and workshops. In 2021 Metro Vancouver managed the availability of Minnekhada Lodge, Cammidge House and Camp Capilano in response to Provincial Health Orders. Similarly, the size and scope of special events were managed throughout 2021 to reflect Provincial Health Orders. The use of picnic shelters and group campsites was unprecedented in 2021 with increased usage in the winter months to support a preference for outside gatherings.



155,152 guests enjoyed individual camping facilities at Derby Reach and Brae Island regional parks



1,096 groups with 42,053 guests enjoyed reserveable day-use facilities

Short term rental of buildings, structures, group campgrounds and open spaces

- 555 groups with 19,747 guests visited picnic shelters in 8 regional parks
- 319 groups with 16,771 guests visited buildings and enjoyed other day-use booking opportunities in regional parks

Rustic outdoor and indoor camping for groups in 4 regional parks:

- 254 groups with 5,556 guests enjoyed group camping facilities



Derby Reach Regional Park

Group Visit Notification Process

The introduction of a new online Group Visit Notification form allowed staff to be aware of and prepare for upcoming visits by groups with 20 or more people. This provided staff the ability to make adjustments in park management systems to accommodate the needs of the group and regular park users.



Volunteering



11,606
total volunteer hours



3,751
total volunteer instances

A volunteer instance is when one person volunteers once at an event or program.

Volunteers contribute to the delivery of a range of programs and activities in regional parks. While their contributions were significantly lower than before the pandemic, over 500 more hours were volunteered in 2021 than 2020. Despite ongoing challenges of the pandemic, volunteers continued to play a significant role in the delivery of Metro Vancouver's stewardship program in 2021 and helped connect people to nature through the Belcarra Beachkeepers and other interpretive programs.



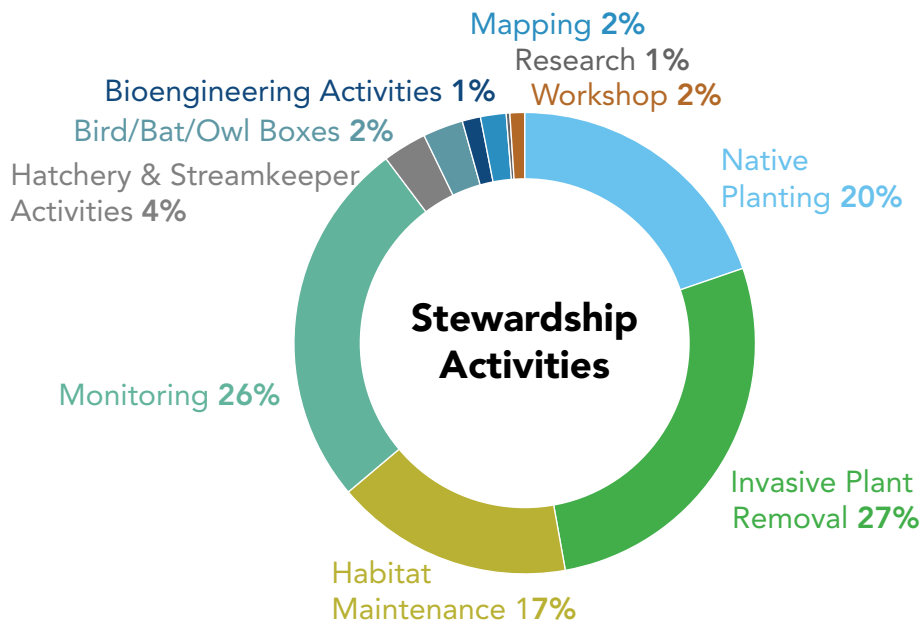


12,333 kg
of invasive species removed

13,447
native plants added to parks

Environmental Stewardship

Regional parks protect critical wildlife habitat and provide ecosystem services such as cleaning the air and helping to control temperatures. Each year, staff, partners and volunteers invest time and effort to restore the health and beauty of these special places. In 2021 2,884 volunteer instances supported 390 stewardship work parties in regional parks which resulted in the contribution of 8,233 volunteer hours.



Public Programs and Other Activities

In addition to their support of Metro Vancouver's stewardship program, park partner group volunteers support the delivery of citizen science, education activities and other events to regional park visitors. In 2021 867 volunteer instances supported public programs in regional parks which resulted in the contribution of over 3,373 volunteer hours.



Belcarra Beachkeepers

Established in 1997, Belcarra Beachkeepers is a volunteer-supported interpretive and stewardship program at Belcarra Regional Park. Led by a park interpreter and supported by volunteers interested in natural sciences, the Belcarra Beachkeepers is Regional Parks' longest running stewardship program. Volunteers conduct data collection, public education and marine stewardship. In 2021 the Beachkeepers offered 24 programs that connected with 2,918 park visitors at təmtəmix'tən/Belcarra Regional Park.





Getting the Word Out

Regional Parks Newsletter (NEW)

This monthly e-newsletter highlights behind-the-scenes stories as well as the latest Regional Parks news and events.

5,411 people received the newsletter

Check out archived issues online
www.metrovancouver.org/services/parks/stories/newsletter/Pages/default.aspx

Nature Program Guide

Published in the spring, summer and fall/winter.

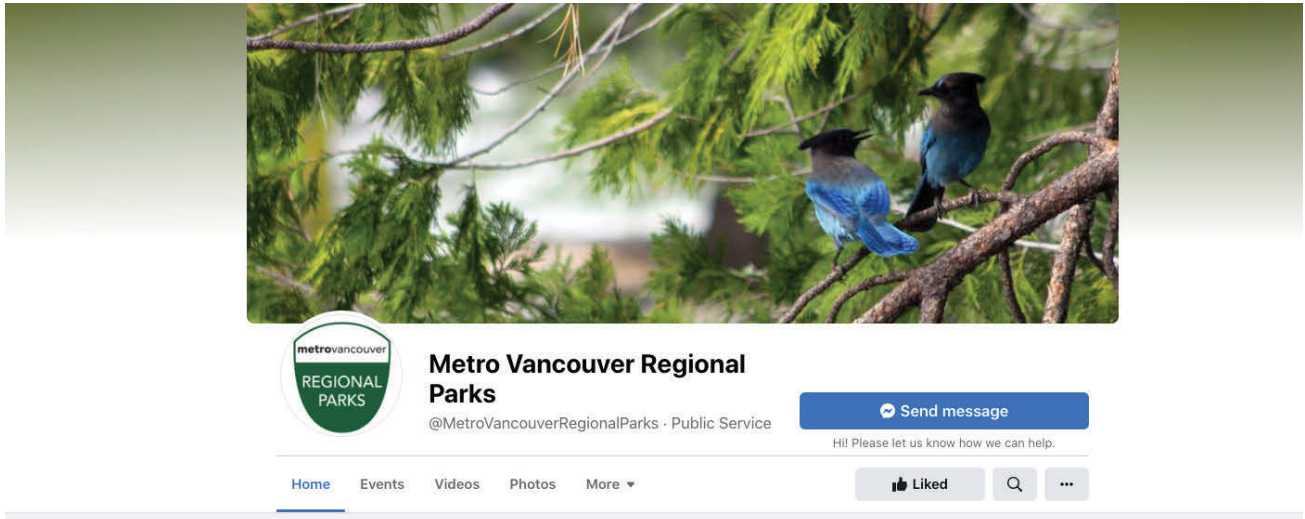
Promotes events and activities for all ages to learn about, connect with and enjoy nature in regional parks.

Distribution includes household mailouts, park kiosks, community centres, libraries, and city halls.

5,411 people received the nature program guide by email

An average **21,167** hard copies per edition of the nature program guide distributed





Social Media and Video

Regional Parks connects with people through social media, sharing information ranging from nature activities and volunteer opportunities to safety and land acquisition announcements. Social media is also a way for people to reach out to and engage with Regional Parks.

10 Regional Parks videos produced in 2021

- videos reached **6,475** people on Facebook & Instagram
- **406** Facebook & Instagram Engagements (includes reactions, comments, shares)
- **92,432** video views (from Metro Vancouver corporate and Regional Parks Facebook pages, Instagram, YouTube Channel and Vimeo)
- On Metro Vancouver's YouTube channel, Metro Moment: Recreational Greenways was the most popular Regional Parks video <https://youtu.be/Hb0cLfUyEFY>
- **60,391** video views



**FB.ME/MetroVancouver
RegionalParks**

91,909 Facebook engagements
(includes reactions, comments, shares)



@MetroVancouver

659,898 Twitter Impressions



@metrovancoverbc

Total reach of **18,588** viewers



Iona Beach Belcarra Regional Park

Looking Forward

In 2022 Regional Parks will continue to respond to the challenges it faces as it protects important natural areas and connects people to them. Initiatives that will be advanced in 2022 include implementing: the regional parks greenways program, addressing electric mobility use, supporting Metro Vancouver's exhibit at the PNE, implementing the public program strategy implementation and renewing our relationship with park associations and other partner groups. Metro Vancouver will also undertake engagement on the draft [Regional Parks Plan](#) to ensure that the plan will address climate change, social equity, the health and well-being of residents, and continue to explore pathways to reconciliation with Indigenous Peoples.



**In 2021, Metro Vancouver Regional Parks
protected 13,824 hectares of regionally important natural areas
and connected 16.3 million visitors to nature**



metrovancouver
SERVICES AND SOLUTIONS FOR A LIVABLE REGION

To: Regional Planning Committee

From: Heather McNell, General Manager, Regional Planning and Housing Services

Date: April 22, 2022 Meeting Date: May 19, 2022

Subject: **Process to Consider Stronger Climate Action Language and Policy for *Metro 2050***

RECOMMENDATION

That the MVRD Board receive for information the report dated April 22, 2022, titled “Process to Consider Stronger Climate Action Language and Policy for Metro 2050”.

EXECUTIVE SUMMARY

The MVRD Board recently directed staff to explore stronger policy directions in *Metro 2050* with regards to GHG emission reductions and regional resilience, driven in part by the unprecedented climate change-related impacts the region and surrounding areas suffered in 2021 including the heat dome, wildfires, landslides, and flooding. Consistent with the recently released IPCC report, scientific experts recognize that further and faster action is needed to assist in reducing climate change impacts. This report presents a proposed scope of work and engagement plan to explore opportunities for stronger climate action language and policy for *Metro 2050*.

The schedule to adopt *Metro 2050* will proceed as directed by the MVRD Board, with possible consideration of bylaw adoption in July 2022. Given that land use intersects with many issue areas and the actions of other Metro Vancouver management plans, staff will concurrently be preparing the draft *Climate 2050 Land Use and Growth Management Roadmap*.

Over the latter half of 2022, staff will engage with the Regional Planning Advisory Committee, Regional Planning, Climate Action, and other standing committees, as well as with stakeholders and subject matter experts on the policy directions and the *Roadmap*, and will prepare recommendations for enhanced policies to be considered by the Board in 2023.

PURPOSE

This report is to provide the Regional Planning Committee and MVRD Board with a proposed scope of work and engagement plan to explore opportunities for stronger climate action language and policy for *Metro 2050* and the development of the *Climate 2050 Land Use and Growth Management Roadmap*.

BACKGROUND

The MVRD Board recently directed staff to explore stronger climate action language and policy for *Metro 2050* with regards to GHG emission reductions and regional resilience. This was driven in part by the unprecedented climate change-related impacts the region and surrounding areas suffered in 2021 including the heat dome, wildfires, landslides, and flooding. At its meeting on March 25, 2022, while considering first and second readings and scheduling a public hearing on the *Metro 2050* bylaw (Reference 1), the MRVD Board passed the following resolution:

Given the urgent need to respond to climate change and prepare for extreme weather events, direct staff to undertake work and engagement with an aim to proposing an early amendment to Metro 2050 post-adoption to strengthen climate action language and policy including the intent to improve integration of climate action into other Metro 2050 priorities.

This report responds to that direction with a proposed scope of work and engagement plan and link to the development of the *Climate 2050 Land Use and Growth Management Roadmap*.

CLIMATE ACTION-RELATED POLICIES IN METRO 2050

In April 2019, the MVRD Board directed staff to update *Metro 2040*, the regional growth strategy, through a series of “*Metro 2040 Policy Reviews*” intended to “take stock of *Metro 2040*’s policy framework, develop an understanding of best practices, and help shape a significant update to the regional growth strategy” (Reference 2). The *Metro 2040 Climate Change and Natural Hazards Policy Review* was scoped to review the greenhouse gas (GHG) emission reduction and resilience policies in the regional growth strategy, and to identify opportunities to enhance them in *Metro 2050* through close collaboration with the *Climate 2050* process, engagement with internal and external stakeholders, and a comprehensive review of best practices (Reference 3).

The Climate Change and Natural Hazards Policy Review identified three key issues pertaining to climate change content in *Metro 2040*:

- climate change considerations are not well-integrated throughout all goal areas of the regional growth strategy;
- the regional growth strategy is underutilized as a tool to meet the region’s MVRD Board-adopted GHG emissions reduction target (i.e. a carbon neutral region by 2050); and
- the regional role related to climate change adaptation and natural hazards is not well-defined in the regional growth strategy.

The Policy Review resulted in seven broad policy recommendations to help address these key issues in *Metro 2050*. The recommendations were endorsed by the Metro Vancouver Board at its meeting on January 29, 2021, and Goal 3 policy content was developed from these recommendations and was reviewed by the Regional Planning Committee and MVRD Board in April 9, 2021 (Reference 4). A ‘climate lens’ was applied the content in all five of the strategy’s goal areas and integrated *Climate 2050* content where appropriate.

Metro 2050 reflects a balance of GHG emission reduction and resilience-focused policies that support the regional federation’s stated climate action objectives, while respecting the unique needs and ambitions of individual signatories. When the draft *Metro 2050* was released for comment (July-November 2021), the comments received from member jurisdictions, regional agencies, local First Nations and the public included both requests to soften and requests to strengthen the proposed climate action policies (Reference 5). A report summarizing the new language in *Metro 2050* that strengthens the policy areas pertaining to GHG emission reductions and climate resilience, including actions for Metro Vancouver, member jurisdictions and TransLink, was presented to the Regional Planning Committee at its meeting on February 10, 2022, and to the Climate Action Committee at its

meeting on March 11, 2022 (Reference 6). A detailed summary of the new and amended climate change policies in *Metro 2050* can be reviewed in the Attachment.

CLIMATE 2050 AND METRO 2050 ARE MUTUALLY-SUPPORTIVE BUT DISTINCT PLANS

Metro 2050 and *Climate 2050*, while mutually-supportive and interconnected, are distinct plans with their own scopes and objectives. Over the past three years, Metro Vancouver staff have been working closely to coordinate research and policy directions in *Metro 2050* and *Climate 2050*, and with TransLink staff as they developed *Transport 2050*. Early in the development process, Metro Vancouver and TransLink staff identified policy areas appropriate for each strategy based on respective mandates. As such, *Metro 2050* leads on land use and growth management elements, *Climate 2050* leads on GHG emissions reduction and resilience from all sectors within the region, and *Transport 2050* leads on the long-term transportation and access needs of the region. Each strategy contains policies and actions that are complementary, supportive, and reflective of the other strategies and should be considered together.

Climate 2050 is the region's climate action plan, that is scoped to be ambitious, aspirational, and comprehensive, and intended to guide climate change policy and action for Metro Vancouver over the next 30 years (Reference 7). It is made up of a series of ten "Roadmaps" by issue area which are currently being developed and implemented, each of which reflects different emission sources and include goals, targets, actions, and performance measures for reducing emissions in the region. They are also meant to reflect both current policies and new directions to set a path toward a resilient, low carbon region, and outline regional (to be led by Metro Vancouver or other governments / organizations, and sometimes in partnership) and corporate actions (led by Metro Vancouver) based on the best ideas, approaches, and available technologies. Each of the *Climate 2050 Roadmaps* will ultimately each be considered by the MVRD Board and endorsed by resolution. Implementation of the *Roadmaps* will be driven by the *Clean Air Plan*, *Metro 2050*, and other management plans and policies such as those for liquid waste, solid waste, drinking water, and regional parks. For actions that are primarily the responsibility of others, Metro Vancouver can play a supporting, advocacy, and / or convening role.

If adopted, *Metro 2050* will be the regional growth strategy, a plan that is defined and prescribed by the *Local Government Act* and enacted by bylaw, which requires acceptance from all member jurisdictions. In many cases, actions included in the *Climate 2050 Roadmaps* are also included in *Metro 2050*. At the time of writing this report there are still four *Roadmaps* to be initiated. Following the adoption of *Metro 2050*, as the *Roadmaps* are finalized and endorsed, there will likely be additional opportunities to amend *Metro 2050* in the future with policy language that is mutually supportive of the two strategies.

CLIMATE 2050 LAND USE AND GROWTH MANAGEMENT ROADMAP

In support of *Climate 2050*, Regional Planning staff will be preparing a draft *Land Use and Growth Management Roadmap*. Land use and growth management overlaps with many issue areas and often intersects with the policies and actions of other plans and strategies. This *Roadmap* will be informed and based on the principles and goals of *Metro 2050*, and focused on the associated strategies and actions that will be required to reduce GHG emissions and build climate resilience in the region. It may also include climate action content that goes beyond the existing endorsed Metro Vancouver

policy actions of other *Roadmaps*, strategies, or current management plans (e.g. ‘big moves’, ‘best practices’, ‘innovative ideas’ or ‘stretch goals’). It is anticipated that the *Roadmap* will inform future policy work and different policy areas / topics of *Metro 2050* and other Metro Vancouver management plans.

Staff are currently in the process of collecting and organizing ideas that will be considered for the draft *Land Use and Growth Management Roadmap*, including a thorough review of materials that were generated through all of the *Metro 2040* policy reviews and the *Climate 2050* discussion papers / *Roadmaps*. Metro Vancouver staff are working closely together to coordinate this work program with other related projects and initiatives both internally and externally to ensure efficiencies and mutually-supportive policy directions. Once the work on the draft *Roadmap* has been further advanced, it will be presented to the Climate Action and Regional Planning Committees for consideration, as well as others through a targeted engagement program with member jurisdictions.

CLIMATE ACTION POLICY AREAS TO EXPLORE FOR METRO 2050

In consideration of the Board’s direction to explore strengthening climate action language and policy in *Metro 2050*, staff are proposing to first undertake policy analysis activities and engagement work to assess where improvements could be made, the integration with work being undertaken by member jurisdictions, and the likelihood of support for amendments. This review is intended to focus on climate change topic areas with strong connections to the content and goals of the regional growth strategy, including the identification of GHG emission reduction actions and resilience actions under the following areas:

1. *Land Use, Communities, and Growth* – Low Carbon Resilient Growth Framework
 - Including consideration of implementation actions to enhance transit-oriented, growth structuring targets and urban containment and to minimize opportunities for ‘sprawl’ within the Urban Containment Boundary;
2. *Industry, Business, and Agriculture* – Low Carbon Resilient Economy;
3. *Environment and Energy* – Thriving Ecosystems and Low Carbon Resilient Energy
4. *Buildings and Housing* – Low Carbon Resilient Structures and Spaces;
5. *Transportation and Goods Movement* – Low Carbon Resilient Mobility and Movement; and
6. *Strengthening the language in existing policies* (for example from ‘consider’ to ‘undertake’)
7. *Other areas* that may arise through review and engagement.

Scope and Engagement

The review will be prepared through the following phases, including some joint and overlapping work with the development of the draft *Climate 2050 Land Use and Growth Management Roadmap*.

Phase 1: Background Review and Early Engagement (Q2/3 of 2022)

Staff will consider all recent work on climate policy related to *Metro 2050*, *Climate 2050*, and other aligned projects. This will include background research and reviewing the recommendations of the *Metro 2040* Climate and Natural Hazards Policy Review (to determine where they can be strengthened, e.g. from “consider” to “require”), the content of the completed *Climate 2050 Roadmaps*, and the suggestions provided by Committee members during recent Regional Planning and Climate Action Committee meetings, including those from delegations. In addition, engagement

will be conducted with stakeholders, including with the Regional Planning Advisory Committee (RPAC). The work will be led by the Regional Planning Committee as per their terms of reference, however, other standing committees including the Climate Action Committee, Parks Committee and Liquid Waste Committee will be provided opportunity to provide input and feedback. This will take place in Q2 and Q3 of 2022.

Phase 2 Develop, Refine, and Organize Ideas (Q4 2022)

Policy ideas identified through the review and early engagement will be compiled. These policy ideas will then be organized into those that could be appropriate for *Metro 2050*, policies that could be appropriate for the *Climate 2050 Land Use and Growth Management Roadmap*, and policies that could be appropriate for both or other plans or strategies.

Phase 3 Engage with Stakeholders and Subject Matter Experts (Q1/2 2023)

A critical part of this work is building consensus around any proposed language or policy in considering a proposed amendment to *Metro 2050*. As the implementers of the regional growth strategy, member jurisdictions, TransLink, adjacent regional districts and Metro Vancouver departments must be willing to undertake, and therefore support the policy actions identified. When *Metro 2050* was developed, the level of commitment was tested with the Intergovernmental Advisory Committee and member jurisdictions Councils, and the resulting language was understood to be the limit of acceptance. If stronger language and policy is put forward, engagement will be key.

This phase will include considering support for strengthening the language of current policies in *Metro 2050* (e.g. using “support”, “encourage”, “require”) as well as new policy generated through Phases 1 and 2. Engagement in early 2023 will be undertaken with RPAC, external subject matter experts, and interested standing committees of the Board. As climate action is a crucial part of Metro Vancouver’s commitments and Board Strategic Plan, there may be opportunities to seed the policy ideas generated into other management plans, ensuring compatibility and consistency.

Phase 4: Prepare Recommendations (Q2 2023)

Review engagement data and prepare recommendations for the Regional Planning Committee and MVRD Board on possible amendments to *Metro 2050* and seek support and direction.

NEXT STEPS

Staff anticipate that the *Metro 2050* adoption schedule will continue to proceed as directed by the MVRD Board, with possible consideration of bylaw adoption in July 2022. The commitment to undertake this review is intended to signal to the new Board post local elections, the desire to explore stronger climate action language and policy in *Metro 2050*. The findings of the review and engagement results will be reported out to the Regional Planning Committee and Board as available, together with the draft *Climate 2050 Land Use and Growth Management Roadmap*.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

There are no financial implications to this report.

CONCLUSION

The MVRD Board recently directed staff to explore stronger language and policy for *Metro 2050* with regards to GHG emission reductions and regional resilience, driven in part by the unprecedented climate change-related impacts the region and surrounding areas suffered in 2021 including the heat dome, wildfires, landslides, and flooding. Regional Planning staff have prepared a proposed scope of work and engagement plan to explore opportunities for stronger climate change policy language and possible amendments to *Metro 2050*, as well as preparing the *Climate 2050 Land Use and Growth Management Roadmap*. The *Metro 2050* adoption schedule will continue to proceed as directed by the MVRD Board, with consideration of bylaw adoption in July 2022.

Over the latter half of 2022, staff will engage with stakeholders and subject matter experts on stronger climate action language and policy for Metro 2050 as well as on the *Climate 2050 Land Use and Growth Management Roadmap*, and will prepare recommendations on enhanced policies for the Regional Planning Committee and Board's consideration early in 2023.

Attachment

Comparison of Climate Actions in *Metro 2040* and Draft *Metro 2050*

References

1. [Consideration of Metro Vancouver Regional District Regional Growth Strategy Bylaw No. 1339, 2022, a bylaw to adopt Metro 2050, Staff Report, March 9, 2022](#)
2. [Report dated March 28, 2019, titled "Towards Metro 2050: Updating Metro Vancouver 2040: Shaping our Future" presented to the MVRD Board at its regular meeting of April 26, 2019.](#)
3. [Report dated January 6, 2021, titled "Metro 2040 Climate Change and Natural Hazards Policy Review – Recommendations" presented to the Regional Planning Committee at its regular meeting of January 14, 2021.](#)
4. [Report dated March 26, 2021, titled "Metro 2050 Draft Policy Language – Goal 3: Protect the Environment and Respond to Climate Change Impacts and the Implementation Section" presented to the Regional Planning Committee at its regular meeting of April 9, 2021.](#)
5. [Report dated January 7, 2022, titled "Comments on the Draft of Metro 2050 and Proposed Next Steps" presented to the Regional Planning Committee at its regular meeting of January 14, 2022.](#)
6. [Report dated February 4, 2022, titled "Metro 2050 Next Steps: Addressing Member Jurisdiction Comments and Climate Policy" presented to the Regional Planning Committee at its regular meeting of February 10, 2022.](#)
7. <http://www.metrovancouver.org/climate2050>

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Comparison of Climate Actions in Metro 2040 and Draft Metro 2050

Each Goal preamble and strategy rationale describes the relevance of greenhouse gas emission reductions and climate change resilience for the Goal area.

Metro 2040 Climate Actions	Metro 2050 Climate Actions
Goal 1: Create a Compact Urban Area	
<p>No specific climate actions for UCs or FTDA's</p>	<p>Strategy 1.2 Focus growth in Urban Centres and Frequent Transit Development Areas</p> <p>Metro Vancouver will:</p> <p>1.2.15 Work with First Nations and other appropriate agencies to ensure that new development and infrastructure investment is directed to areas that are transit-oriented and resilient to climate change impacts and natural hazards.</p> <p>1.2.19 Advocate to the Province that any future or expanded rail-based rapid transit service:</p> <p>a) avoid locations that are exposed to unmitigated natural hazards and climate change risk;</p> <p>Member Jurisdictions will:</p> <p>1.2.26 Collaborate with member jurisdictions and other stakeholders on the expansion of the Frequent Transit Network, Major Transit Network, and new transit stations, and avoid expansion of permanent transit infrastructure into hazardous areas. Where risk is unavoidable, such as in existing settlements, use risk-mitigation or climate change adaptation strategies in the expansion of transit infrastructure.</p>
<p>No specific climate actions for complete communities</p>	<p>Strategy 1.3 Develop resilient, healthy, connected, and complete communities with a range of services and amenities</p> <p>Metro Vancouver will:</p> <p>1.3.1 Support member jurisdictions and work with First Nations in developing resilient, healthy, connected, and complete communities through regional strategies, research, and best practices that:</p> <p>b) reduce greenhouse gas emissions, bolster resilience to climate change impacts and natural hazards, and improve social equity, universal accessibility, and inclusive engagement; and</p> <p>1.3.2 Provide technical advice, assistance, research, and data to member jurisdictions and other agencies to improve air quality, reduce greenhouse gases, increase access to community services, and to better understand the health and social equity aspects of land use and infrastructure decisions.</p> <p>1.3.3 Collaborate with health authorities, academic institutions, First Nations, and other researchers to share best practices, research, data, and tools that can advance land use policies to:</p> <p>c) reduce community exposure to climate change and air quality impacts, especially communities that are disproportionately impacted; and</p> <p>Member Jurisdictions will:</p> <p>1.3.7 Adopt Regional Context Statements that:</p> <p>d) respond to health and climate change-related risks by providing equitable access to: i) recreation facilities; ii) green spaces and public spaces (e.g. parks, trails, urban forests, public squares, etc.); and iii) safe and inviting walking, cycling, and rolling environments, including resting spaces with tree canopy coverage, for all ages and abilities;</p>
<p>No specific climate actions for Rural lands</p>	<p>Strategy 1.4 Protect Rural lands from urban development</p> <p>Member Jurisdictions will:</p> <p>1.4.3 Adopt Regional Context Statements that:</p> <p>e) support the protection, enhancement, restoration, and expansion of ecosystems identified on Map 11 to maintain ecological integrity, enable ecosystem connectivity, increase natural carbon sinks and enable adaptation to the impacts of climate change.</p>

Metro 2040 Climate Actions	Metro 2050 Climate Actions
Goal 2: Support a Sustainable Economy	
No specific climate actions for Industrial lands	<p>Strategy 2.1 Promote land development patterns that support a diverse regional economy and employment opportunities close to where people live</p> <p>Metro Vancouver will:</p> <p>2.1.6 Advocate that airport authorities:</p> <p>c) develop strategies to adapt to climate change impacts and natural hazard risks.</p> <p>2.1.7 Advocate that the Port of Vancouver:</p> <p>c) develop strategies to adapt to climate change impacts and natural hazard risks.</p> <p>Strategy 2.2 Protect the supply, and enhance the efficient use of, industrial land</p> <p>Member jurisdictions will:</p> <p>2.2.9 Adopt Regional Context Statements that:</p> <p>c) include policies for Industrial lands that:</p> <p>ix) consider the preparation of urban design guidelines for Industrial land edge planning, such as interface designs, buffering standards, or tree planting, to minimize potential land use conflicts between industrial and sensitive land uses, and to improve resilience to the impacts of climate change; and</p> <p>e) include policies to assist existing and new businesses in reducing their greenhouse gas emissions, maximizing energy efficiency, and mitigating impacts on ecosystems.</p> <p>f) include policies that assist existing and new businesses to adapt to the impacts of climate change and reduce their exposure to natural hazards risks, such as those identified within the regional growth strategy (Table 5).</p>
No specific climate actions for Agricultural lands	<p>Strategy 2.3 Protect the supply of agricultural land and strengthen agricultural viability</p> <p>Metro Vancouver will:</p> <p>2.3.9 Advocate to the Province to increase agricultural producers' knowledge and adoption of innovative practices for advancing agriculture economic development, and resilience to climate change and natural hazard impacts, such as those identified in the regional growth strategy (Table 5).</p> <p>2.3.10 Advocate to the Province to provide incentives to encourage land management practices that reduce greenhouse gas emissions, improve soil health, protect natural assets, and maintain ecosystem services from agricultural land.</p> <p>Member Jurisdictions will:</p> <p>2.3.12 Adopt Regional Context Statements that:</p> <p>c) include policies that protect the supply of agricultural land and strengthen agriculture viability including those that:</p> <p>iii) support climate change adaptation including:</p> <ul style="list-style-type: none"> • monitor storm water, flooding, and sea level rise impacts on agricultural land, • implement flood construction requirements for residential uses, • and maintain and improve drainage and irrigation infrastructure that supports agricultural production, where appropriate and in collaboration with other governments and agencies;

Metro 2040 Climate Actions	Metro 2050 Climate Actions
<p>Goal 3: Protect the Environment and Respond to Climate Change Impacts</p>	<p>Goal 3: Protect the Environment and Respond to Climate Change and Natural Hazards</p>
<p>Strategy 3.1 Protect Conservation and Recreation lands No specific climate actions for Conservation and Recreation lands</p>	<p>Strategy 3.1 Protect and enhance Conservation and Recreation lands Member jurisdictions will: 3.1.9 Adopt Regional Context Statements that: b) include policies that support the protection and enhancement of lands with a Conservation and Recreation land use designation, which may include the following uses: vii) ecosystems not covered above that may be vulnerable to climate change and natural hazard impacts, or that provide buffers to climate change impacts or natural hazard impacts for communities; and viii) uses within those lands that are appropriately located, scaled, and consistent with the intent of the designation, including:</p> <ul style="list-style-type: none"> land management activities needed to minimize vulnerability / risk to climate change impacts.
<p>Strategy 3.2 Protect and enhance natural features and their connectivity No specific climate actions for ecosystems</p>	<p>Strategy 3.2 Protect, enhance, restore, and connect ecosystems Metro Vancouver will: 3.2.2 Implement the Metro Vancouver Ecological Health Framework, including relevant actions to: a) collect and maintain data, including the Sensitive Ecosystem Inventory, tree canopy cover, imperviousness, and carbon storage datasets; report on gains and losses and climate change impacts on ecosystems; and share these datasets with member jurisdictions; and b) incorporate natural assets and ecosystem services into Metro Vancouver’s corporate planning, asset management systems and investments, and provide regionally appropriate guidance on methodologies, tools and decision-making frameworks.</p> <p>3.2.3 Manage Metro Vancouver assets and collaborate with member jurisdictions, First Nations, and other agencies to: b) identify ecosystems that may be vulnerable to climate change and natural hazard impacts as part of regional multi-hazard mapping in Action 3.4.2 a); c) identify a regional green infrastructure network that connects ecosystems and builds on existing local networks, while maximizing resilience, biodiversity, and human health benefits; and</p> <p>3.2.6 Advocate to the Federal Government and the Province to: b) support the uptake of nature-based climate change solutions, including those that protect or restore foreshore ecosystems;</p> <p>Member jurisdictions will: 3.2.7 Adopt Regional Context Statements that: c) include policies that: i) support the consideration of natural assets and ecosystem services in land use decision-making and land management practices; ii) enable the retention and expansion of urban forests using various tools, such as local tree canopy cover targets, urban forest management strategies, tree regulations, development permit requirements, land</p>

Metro 2040 Climate Actions	Metro 2050 Climate Actions
	acquisition, street tree planting, and reforestation or restoration policies, with consideration of resilience ;
<p>Strategy 3.3 Encourage land use and transportation infrastructure that reduce energy consumption and greenhouse gas emissions, and improve air quality</p> <p>Metro Vancouver’s role is to: 3.3.1 Implement the strategies and actions of the Regional Growth Strategy that contribute to regional targets to reduce greenhouse gas emissions by 45 percent below 2010 levels by 2030 and to achieve a carbon neutral region by 2050. Figure 3 identifies examples of strategies and actions contained in the Regional Growth Strategy to address climate change.</p>	<p>Strategy 3.3 Encourage land use, infrastructure, and human settlement patterns that reduce energy consumption and greenhouse gas emissions, create carbon storage opportunities, and improve air quality</p> <p>Metro Vancouver will: 3.3.1 Implement the: a) strategies and actions of the regional growth strategy that contribute to regional targets to reduce greenhouse gas emissions by 45% below 2010 levels by the year 2030 and to achieve a carbon neutral region by the year 2050; and b) Metro Vancouver <i>Clean Air Plan, Climate 2050</i>, and other associated actions to help achieve the regional greenhouse gas emissions reduction targets in Action 3.3.1 a).</p>
<p>Metro Vancouver’s role is to: 3.3.2 Work with the federal government and the province, TransLink, municipalities, non-governmental organizations, and the private sector to: a) support the ongoing monitoring of energy consumption, greenhouse gas emissions, and air quality related to land use and transportation infrastructure; b) promote best practices and develop guidelines to support local government actions to reduce energy consumption and greenhouse gases, and improve air quality related to land use and transportation infrastructure (e.g. district heating systems and renewable energy opportunities).</p>	<p>Metro Vancouver will: 3.3.2 Work with the Federal Government, the Province, TransLink, member jurisdictions, First Nations, non-governmental organizations, energy utilities, the private sector, and other stakeholders, as appropriate, to: a) monitor energy consumption, greenhouse gas emissions, and air quality related to land use, buildings, industry, agriculture, waste, transportation, and other emission sources, and consider lifecycle energy and emissions; b) monitor and pursue opportunities to increase carbon storage in natural areas; and c) promote best practices and develop guidelines to support local government actions that reduce energy consumption and greenhouse gas emissions, support a transition to clean, renewable energy (including electricity), create carbon storage opportunities, and improve air quality.</p> <p>3.3.4 Work with the Federal Government, the Province, and other stakeholders when conducting environmental assessments to reduce the environmental and health impacts related to regional air quality and greenhouse gas emissions.</p>
<p>Metro Vancouver’s role is to: 3.3.3 Accept Regional Context Statements that encourage land use and transportation infrastructure that reduce energy consumption and greenhouse gas emissions, and improve air quality, and that meet or work towards Action 3.3.4.</p>	<p>Metro Vancouver will: 3.3.5 Accept Regional Context Statements that encourage land use, infrastructure, and settlement patterns that reduce energy consumption and greenhouse gas emissions, improve air quality, create carbon storage opportunities, and that meet or work towards Action 3.3.7.</p>

Metro 2040 Climate Actions	Metro 2050 Climate Actions
<p>Actions Requested of Other Governments and Agencies</p> <p>3.3.8 That the federal government and the province and their agencies establish further legislative and fiscal actions to help the public and private sectors to maximize reductions in energy consumption and greenhouse gas emissions, and improve air quality, such as:</p> <p>a) in the building sector,</p> <ul style="list-style-type: none"> • accelerate the modernization of the BC Building Code • increase incentives for residential and commercial building retrofits • support, where feasible and appropriate, energy recovery, renewable energy generation and district energy systems and related transmission needs <p>b) in the transportation sector,</p> <ul style="list-style-type: none"> • enable the implementation of regional transportation demand management measures such as transportation user-based pricing • increase funding for sustainable transportation infrastructure • continue to advance stringent standards for on road vehicle emissions and fuel carbon content 	<p>Metro Vancouver will:</p> <p>3.3.6 Advocate to the Federal Government and the Province to establish and support legislative and fiscal actions, that help the public and private sector maximize reductions in energy consumption and greenhouse gas emissions, and improve air quality, such as:</p> <p>a) in the building sector,</p> <ol style="list-style-type: none"> i) accelerating the transition of energy efficiency requirements in the BC Building Code to net zero energy ready levels by 2032; ii) setting greenhouse gas and energy performance requirements for new and existing buildings; iii) increasing incentives and financing tools for new low-carbon, zero-emissions, and resilient buildings; iv) supporting large-scale building electrification; v) requiring benchmarking and energy labels for new and existing buildings; vi) supporting reductions in embodied emissions of buildings, and the increased use of low-carbon circular building products and processes; vii) supporting programs, services and incentives for low-carbon upgrade options in rental buildings that benefit building owners and tenants; viii) incenting equitable transit-oriented development through policy and funding programs; and ix) supporting, where feasible and appropriate, energy recovery, renewable energy generation and zero-carbon district energy systems, and related transmission needs. <p>b) in the transportation sector,</p> <ol style="list-style-type: none"> i) revising enabling legislation to allow regional road usage charging for the purposes of managing congestion and greenhouse gases; ii) supporting electric vehicle charging in new and existing buildings through requirements and programs; iii) continuing to increase the amount of reliable and sustainable funding available for sustainable transportation infrastructure and low emission travel modes, such as active transportation and public transit; and iv) continuing to advance stringent standards for on-road vehicle emissions and fuel carbon content.
<p>The role of municipalities is to:</p> <p>3.3.4 Adopt Regional Context Statements which:</p> <p>a) identify how municipalities will use their land development and transportation strategies to meet their greenhouse gas reduction targets and consider how these targets will contribute to the regional targets;</p> <p>b) identify policies and/or programs that reduce energy consumption and greenhouse gas emissions, and improve air quality from land use and transportation infrastructure, such as:</p> <ul style="list-style-type: none"> • existing building retrofits and construction of new buildings to green performance guidelines or standards, district energy systems, and energy recovery and renewable energy generation technologies, such 	<p>Member jurisdictions will:</p> <p>3.3.7 Adopt Regional Context Statements that:</p> <p>a) identify how local land use and transportation policies will contribute to meeting the regional greenhouse gas reduction target of 45% below 2010 levels by the year 2030 and achieving a carbon neutral region by the year 2050;</p> <p>b) identify policies, actions, incentives, and / or strategies that reduce energy consumption and greenhouse gas emissions, create carbon storage opportunities, and improve air quality from land use, infrastructure, and settlement patterns, such as:</p> <ol style="list-style-type: none"> i) existing building retrofits and construction of new buildings to meet energy and greenhouse gas performance guidelines or standards (e.g. BC Energy Step Code, passive design), the electrification of building heating systems, green demolition requirements, embodied emissions policies, zero-carbon district energy systems, and energy recovery and

Metro 2040 Climate Actions	Metro 2050 Climate Actions
<p>as solar panels and geoexchange systems, and electric vehicle charging infrastructure;</p> <ul style="list-style-type: none"> community design and facility provision that encourages transit, cycling and walking (e.g. direct and safe pedestrian and cycling linkages to the transit system); <p>c) focus infrastructure and amenity investments in Urban Centres and Frequent Transit Development Areas, and at appropriate locations along TransLink’s Frequent Transit Network;</p> <p>d) implement land use policies and development control strategies which support integrated storm water management and water conservation objectives.*</p>	<p>renewable energy generation technologies, such as solar panels and geoexchange systems, and zero emission vehicle charging infrastructure; and</p> <p>ii) community design, infrastructure, and programs that encourage transit, cycling, rolling and walking; and</p> <p>c) focus infrastructure and amenity investments in Urban Centres and Frequent Transit Development Areas, and at appropriate locations along Major Transit Growth Corridors.</p> <p>*d) moved to 3.2.7 c) iv)</p>
<p>Actions Requested of Other Governments and Agencies</p> <p>3.3.6 That TransLink pursue reductions of common air contaminants and greenhouse gas emissions from on-road transportation sources in support of regional air quality objectives and greenhouse gas reduction targets.</p> <p>3.3.7 That TransLink manage its transit fleet and operations with the goal of increasing fuel efficiency and reducing common air contaminants and greenhouse gas emissions over time, in support of the Regional Growth Strategy and Air Quality Management Plan.</p>	<p>TransLink will:</p> <p>3.3.8 Support regional air quality objectives and greenhouse gas emission reduction targets by advancing policy and infrastructure to support the aggressive transition of the ground-based vehicle fleet to zero-emissions, and by transitioning the entire transit fleet to one that utilizes low-carbon fuels.</p>
<p>Actions Requested of Other Governments and Agencies</p> <p>3.3.5 That TransLink, in collaboration with Metro Vancouver and municipalities, establish criteria for defining major development proposals, which are referenced in the <i>South Coast British Columbia Transportation Authority Act</i>, in order to help meet the objective of concentrating major trip-generating uses in areas well served by transit.</p>	<p>TransLink will:</p> <p>3.3.9 In collaboration with Metro Vancouver and member jurisdictions, establish a definition of major development proposals, which are referenced in the <i>South Coast British Columbia Transportation Authority Act</i>, to support the objective of concentrating Major Trip-Generating uses in areas well served by transit.</p>
<p>Strategy 3.4 Encourage land use and transportation infrastructure that improve the ability to withstand climate change impacts and natural hazard risks</p>	<p>Strategy 3.4 Encourage land use, infrastructure, and human settlement patterns that improve resilience to climate change impacts and natural hazards</p>
<p>Metro Vancouver’s role is to:</p> <p>3.4.1 Incorporate climate change and natural hazard risk assessments into the planning and location of Metro Vancouver utilities, assets and operations.</p>	<p>Metro Vancouver will:</p> <p>3.4.1 Incorporate climate change and natural hazard risk assessments into the planning and location of existing and future Metro Vancouver utilities, assets, operations, and other critical infrastructure.</p>

Metro 2040 Climate Actions	Metro 2050 Climate Actions
<p>Metro Vancouver’s role is to:</p> <p>3.4.2 Work with the federal government and the province, TransLink and municipalities to:</p> <ul style="list-style-type: none"> a) consider climate change impacts (e.g. sea level rise) and natural hazard risks (e.g. earthquake, flooding, erosion, subsidence, mudslides, interface fires) when extending utilities and transportation infrastructure that encourages land use development; b) research and promote best practices in adaptation to climate change as it relates to land use planning. <p>3.4.6 That the Integrated Partnership for Regional Emergency Management, in collaboration with the federal government and the province, and other agencies:</p> <ul style="list-style-type: none"> a) identify areas that are vulnerable from climate change and natural hazard risks, such as those listed in Actions 3.4.2 and 3.4.4; b) coordinate priority actions to address the vulnerabilities identified, including implementation and funding strategies. <p>3.4.7 That the federal government and the province, in collaboration with the Integrated Partnership for Regional Emergency Management and other agencies:</p> <ul style="list-style-type: none"> a) provide financial assistance and timely data and information, such as flood hazard mapping, shoreline mapping, hydrological and hydraulic studies, to better enable local governments to fulfill their flood hazard management roles and responsibilities; b) provide a coordination role to address flood hazard issues and management decisions; c) implement appropriate preparatory actions to address the implications of long-term sea level rise on infrastructure planning, construction, and operations; d) review and improve the effectiveness of existing provincial legislation and guidelines regarding flood hazard management by municipalities. 	<p>Metro Vancouver will:</p> <p>3.4.2 Work with the Integrated Partnership for Regional Emergency Management, the Federal Government, the Province, First Nations, TransLink, member jurisdictions, adjacent regional districts, and other stakeholders, as appropriate, to:</p> <ul style="list-style-type: none"> a) collaboratively develop and share information and data related to hazards, risks, and vulnerabilities in the Metro Vancouver region, which may include preparing a regional multi-hazard map, and identifying and coordinating priority actions, implementation strategies, and funding mechanisms; b) plan for climate change impacts and natural hazard risks when extending utilities and transportation infrastructure that support development; c) support the integration of emergency management, utility planning, and climate change adaptation principles in land use plans, transportation plans, and growth management policies; d) research and promote best practices and develop guidelines to support resilience to the impacts of climate change and natural hazards as it relates to planning and development; e) support regional flood management approaches, such as the implementation of the Lower Mainland Flood Management Strategy; and f) research and share information related to the impacts of climate change and natural hazards on vulnerable populations, and focus resilience actions on equitable outcomes. <p>3.4.4 Advocate to the Federal Government and the Province that they:</p> <ul style="list-style-type: none"> a) review and improve existing provincial legislation and guidelines regarding flood hazard management at the local level, encourage the adoption of local flood hazard policies and bylaws, and implement appropriate preparatory actions to address the long-term implications of sea level rise on infrastructure planning, construction, and operations; b) incorporate resilience considerations into building codes and standards; c) modernize the provincial <i>Emergency Program Act</i> and associated regulations with requirements for land use planning, and consider land use implications in the development of climate change adaptation strategies; and d) provide guidelines, programs, funding, and timely data and information to support regional and local planning for climate change impacts and natural hazards.
<p>Metro Vancouver’s role is to:</p> <p>3.4.3 Accept Regional Context Statements that encourage land use, transportation and utility infrastructure which improve the ability to withstand climate change impacts and natural hazard risks and that meet or work towards Actions 3.4.4 and 3.4.5.</p>	<p>Metro Vancouver will:</p> <p>3.4.3 Accept Regional Context Statements that encourage land use, settlement patterns, transportation and utility infrastructure which improve the ability to withstand climate change impacts and minimize natural hazard risks, and that meet or work towards Actions 3.4.5, 3.4.6, 3.4.7, and 3.4.8.</p>

Metro 2040 Climate Actions	Metro 2050 Climate Actions
<p>The role of municipalities is to: 3.4.4 Adopt Regional Context Statements that include policies to encourage settlement patterns that minimize risks associated with climate change and natural hazards (e.g. earthquake, flooding, erosion, subsidence, mudslides, interface fires).</p>	<p>Member jurisdictions will: 3.4.5 Adopt Regional Context Statements that: a) include policies that minimize risks associated with climate change and natural hazards in existing communities through tools such as heat and air quality response plans, seismic retrofit policies, and flood-proofing policies; and b) include policies that discourage new development in current and future hazardous areas to the extent possible through tools such as land use plans, hazard-specific Development Permit Areas, and managed retreat policies, and where development in hazardous areas is unavoidable, mitigate risks.</p>
<p>3.4.5 Consider incorporating climate change and natural hazard risk assessments into the planning and location of municipal utilities, assets and operations.</p>	<p>3.4.6 Incorporate climate change and natural hazard risk assessments into planning and location decisions for new municipal utilities, assets, operations, and community services.</p>
	<p>3.4.7 Integrate emergency management, utility planning, and climate change adaptation principles when preparing land use plans, transportation plans, and growth management policies.</p> <p>3.4.8 Adopt appropriate planning standards, guidelines, and best practices related to climate change and natural hazards, such as flood hazard management guidelines and wildland urban interface fire risk reduction principles.</p>
Goal 4: Develop Complete Communities	Goal 4: Provide Diverse and Affordable Housing Choices
<p>No specific climate actions for housing</p>	<p>Strategy 4.1 Expand the supply and diversity of housing to meet a variety of needs Member jurisdictions will: 4.1.8 Adopt Regional Context Statements that: c) identify policies and actions that contribute to the following outcomes: viii) existing and future housing stock that is low carbon and resilient to climate change impacts and natural hazards.</p> <p>4.1.9 Prepare and implement housing strategies or action plans that: c) identify housing priorities, based on the assessment of local housing market conditions, household incomes, changing population and household demographics, climate change and natural hazards resilience, and key categories of local housing need, including specific statements about special needs housing and the housing needs of equity-seeking groups; and</p> <p>Strategy 4.2 Expand, retain, and renew rental housing supply and protect tenants Member jurisdictions will: 4.2.7 Adopt Regional Context Statements that: d) identify policies and actions that contribute to the following outcomes: v) reduced energy use and greenhouse gas emissions from existing and future rental housing stock, while considering impacts on tenants and affordability.</p>

Metro 2040 Climate Content	Metro 2050 Climate Content
Goal 5: Support Sustainable Transportation Choices	
<p>Metro Vancouver’s role is to: 5.1.2 Communicate to TransLink that Metro Vancouver’s objectives for the regional transportation system are: b) to support energy consumption, greenhouse gas emission, and air quality objectives (as described in Strategy 3.3).</p>	<p>Strategy 5.1 Coordinate land use and transportation to encourage transit, multiple-occupancy vehicles, cycling and walking</p> <p>Metro Vancouver will: 5.1.2 Establish the following objectives for the regional transportation system: b) reduce energy consumption and greenhouse gas emissions while improving air quality, as set out in Strategy 3.3; and</p> <p>TransLink will: 5.1.15 In support of coordinated land use and transportation to encourage transit, multiple occupancy vehicles, cycling, walking, and rolling: f) work with the Province, the Integrated Partnership for Regional Emergency Management, and member jurisdictions to evaluate the potential impacts of climate change and known unmitigated natural hazards on rapid transit alignments, station locations, and associated transportation infrastructure;</p>
<p>No specific climate actions for land use and transportation coordination</p>	<p>Strategy 5.2 Coordinate land use and transportation to support the safe and efficient movement of vehicles for passengers, goods, and services</p> <p>Metro Vancouver will: 5.2.4 Advocate to the Province, TransLink, and neighbouring regional districts to request that the following elements are considered when contemplating future expansion of private vehicle capacity on major roads, highways, and crossings: b) the negative impacts on the achievement of regional greenhouse gas emission reduction targets and air quality objectives; f) the ability of the transportation system to withstand known and unmitigated climate change impacts and natural hazards.</p>

To: Regional Planning Committee

From: Mark Seinen, Senior Planner, Regional Planning and Housing Services

Date: April 11, 2022 Meeting Date: May 19, 2022

Subject: **Regional Parking Strategy – Scope of Work**

RECOMMENDATION

That the MVRD Board receive for information the report dated April 11, 2022, titled “Regional Parking Strategy – Scope of Work”.

EXECUTIVE SUMMARY

Regional Planning is initiating a Regional Parking Strategy that builds on the Apartment Parking Studies completed in 2012 and 2018. The Regional Parking Strategy will develop policy guidance aimed at reducing the amount of under-utilized parking and, as a result, the construction cost of new housing. The Strategy will provide best practices and guidance on:

- developing new and amended parking policies and regulations;
- reducing the supply of both parking spaces and vehicles; and
- how best to pursue greater land efficiency and housing affordability through reduced construction costs.

Member jurisdictions have requested that the project scope emphasize strategic planning and the provision of guidance, rather than simply data collection. The Strategy will feature a demand-side (pricing-based) element and be steered by a Technical Working Group. The project will be completed by the end of 2023.

PURPOSE

The purpose of this report is to advise the Regional Planning Committee and MVRD Board of the Regional Parking Strategy’s scope of work and timeline.

BACKGROUND

Metro 2050 includes a commitment by Metro Vancouver to collaboratively develop a Regional Parking Strategy to provide guidance and best practice research to member jurisdictions to inform efforts to right-size the supply of parking in the region, reduce the number of vehicles, make more efficient use of the limited land supply, and improve housing and transportation affordability. This report presents the scope of work for the project.

REGIONAL PARKING STRATEGY

Metro 2050’s policy action 5.1.6 sets out the need to undertake the Regional Parking Strategy. Specifically, it states that:

Metro Vancouver will collaborate with member jurisdictions and TransLink to jointly develop a regional parking strategy that:

- a) provides guidance to inform municipal parking requirements;*
- b) considers local needs through customized guidance for different land use and transportation contexts; and*
- c) seeks to right-size the supply of parking in the region, reduce the number of vehicles, make more efficient use of the limited land supply, and improve housing and transportation affordability.*

Previous Regional Parking Initiatives

Metro Vancouver’s role in developing regional parking strategies dates back to 1996, when *A Comprehensive Parking Management Strategy for Greater Vancouver* was published. That plan contained a number of progressive policy recommendations that were not implemented.¹

Metro Vancouver completed a regional Apartment Parking Study in 2012 and updated it in 2018 (Reference). For the studies, Metro Vancouver and TransLink collected parking utilization data across a sample of apartment sites and on nearby streets around the region (80 in the Fall of 2011, supplemented by 73 in the Fall of 2017). The key findings from the 2018 Study were as follows:

1. For both the surveyed rental and strata tenure buildings, apartment parking supply exceeded use across the region.
2. Apartment parking supply and use was lower for buildings closer to frequent transit.
3. Transit use was generally higher where apartment parking use was lower, especially for rental buildings.
4. Street parking is complex in mixed-use neighbourhoods.
5. The design and capacity of bicycle parking facilities in apartment buildings appeared to discourage use by many residents.

Objectives and Scope of Work

The intent of the regional parking strategy project is to build upon the findings of the 2012 and 2018 Apartment Parking Studies by preparing parking policy guidance that may be used by member jurisdictions, Metro Vancouver, and other agencies.

Through early discussions with member jurisdiction and TransLink staff, the minimum scope of the project is intended to provide best practices and guidance on:

- developing new and amended parking policies and regulations;
- reducing the supply of both parking spaces and vehicles; and
- how best to pursue greater land efficiency and housing affordability through reduced construction costs.

The full scope of work for the Regional Parking Strategy is still being developed. Finalizing the scope will be the first project task, which is to be completed with the assistance of a staff technical working

¹ For example: parking maximums and employer parking cash-out.

group. This will include exploring potential policy options such as: parking maximums, secure bicycle parking, and parking for non-residential land uses (industrial, commercial, office, institutional, etc.). Importantly, this task will also identify the items not to be included in the project scope (e.g. other aspects of Transportation Demand Management, such as pricing).

The project will consist of primarily research tasks, which could include the:

- review of existing municipal policies and bylaws;
- review of recent local parking strategies;
- best practice review of peer communities;
- assessment of the latest Census and TransLink Trip Diary data, leveraging concurrent work on the Housing and Transportation Cost Burden Study Update; and
- economic analysis of reducing or removing parking minimums (or implementing maximums) for development finance, housing, and transportation.

Project completion is expected by the end of 2023.

Technical Working Group

A Technical Working group will be struck to finalize the project scope, advise on project decisions, and engage in close review of deliverables, including any draft recommendations. This technical working group will include representatives from: Metro Vancouver, TransLink, and any interested member jurisdiction staff. The technical working group would meet on a regular schedule (e.g. once per month) which may increase as the core project work begins.

Staff engaged the Regional Planning Advisory Committee (RPAC) at its meeting on April 8, 2022 and confirmed interest from several member jurisdictions in the project and in participating on the Technical Working Group.

Potential Demand-Side Stream and TransLink Involvement

The minimum project scope, informed by *Metro 2050's* policy action 5.1.6, does not necessarily include demand-side (pricing-based) elements of parking policy such as: rate regulation, parking taxes, permit zones, and employer cash-out programs.

One possible project approach, which is to be confirmed through further discussion, is to supplement Metro Vancouver's regional parking strategy work with a parallel project, led by TransLink staff, that could consider demand-side (pricing-based) parking strategies. This would allow procurement processes to proceed separately, while coordinating efforts between the agencies and allowing for a discussion of parking demand and supply issues at the same time. Metro Vancouver and TransLink have used similar project management approaches on recent projects such as the *Regional Resilience Framework* and *Long-Range Growth and Transportation Scenarios*. If this approach is acceptable to TransLink and member jurisdictions, details would be outlined in a project Terms of Reference and presented to the Regional Planning Committee at a future meeting.

To date, Metro Vancouver and TransLink staff have engaged in a series of discussions about the possible scope of work for the Regional Parking Strategy. These discussions have confirmed a mutual

interest in parking policy and suggested the potential for the broader TransLink involvement described in this section.

At its April 8, 2022 meeting, RPAC discussed and confirmed its support for a comprehensive approach to the project that would include a demand-side (pricing) component.

Potential Survey

The 2012 and 2018 Apartment Parking Studies were largely survey exercises, involving parking utilization field surveys at 153 apartment sites. Undertaking parking utilization field surveys were considered, but will not be included in the scope of work for the Regional Parking Strategy for the following reasons:

- Cost – field surveys have a significant labour cost and must occur in the evening; gaining access to buildings is a substantial coordination effort.
- Reliability – the COVID-19 pandemic has disrupted commuting and parking patterns, so while an update could be useful, the survey data collected may not be reliable until we enter the post-pandemic period.
- Need – the 2018 study broadly corroborated the findings of the 2012 study. The estimate of excess (unused) parking for strata apartments was 18 to 35 percent in the 2012 study and 42 percent in the 2018 study. These numbers are also consistent with findings from similar studies in other cities and not expected to vary significantly if surveyed again.²
- Usefulness – the regional parking strategy’s guidance will likely be generalized and expressed in ranges. Additional local study would be required prior to implementing any of its recommendations. For these reasons, the guidance may not benefit from the additional precision that would be gained through greater survey samples.
- Timeliness – it has been almost five years since the 2017 surveys, which occurred six years after the 2011 surveys.

RPAC expressed support for a project scope that emphasizes strategic planning and the provision of guidance, rather than simply data collection. Several member jurisdictions noted the benefits of leveraging recently compiled local parking utilization data as a means to enhance the 2012 and 2018 study datasets.

Communications and Reporting Out

The principal audiences for the project include the Regional Planning Committee and MVRD Board, TransLink, member jurisdiction planning staff, senior levels of government, the real estate development industry, and the public.

On completion of the projection, Regional Planning staff will work closely with Metro Vancouver’s External Relations staff to manage the release of the Regional Parking Strategy findings and recommendations, and develop supplemental materials (e.g. web content). Prior to releasing any public-facing findings or recommendations, staff will engage with member jurisdiction staff via the technical working group and RPAC to review and comment on any policy recommendations or new

² King County, WA estimates an [oversupply of 40 percent](#) for multi-family buildings. Metro Boston, MA estimates an [oversupply of 30 percent](#).

directions, and collaborate on communication. Coordination will also be needed with TransLink’s Communications team, especially if joint work products are developed.

Staff will provide status updates to RPAC, the Regional Planning Committee and the MVRD Board at significant project milestones through 2022 and 2023.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

Funding to support hiring a consultant(s) in the amount of \$50,000 is part of the Board-approved 2022 Regional Planning budget.

CONCLUSION

Metro Vancouver is initiating a regional parking strategy that builds upon the Apartment Parking Studies completed in 2012 and 2018. The regional parking strategy project will undertake research of best practices and develop parking policy guidance aimed at reducing the amount of under-utilized parking and improving housing affordability through reduced construction costs. The project will be completed by the end of 2023.

Reference

[Metro Vancouver Regional Parking Studies](#)

48514946

To: Regional Planning Committee

From: Erin Rennie, Senior Planner, and Laurie Bates-Frymel, Senior Planner,
Regional Planning and Housing Services

Date: April 11, 2022 Meeting Date: May 19, 2022

Subject: **Social Equity in Regional Growth Management Phase 3 Study – Project Scope**

RECOMMENDATION

That the MVRD Board receive for information the report dated April 11, 2022, titled “Social Equity in Regional Growth Management Phase 3 Study – Project Scope”.

EXECUTIVE SUMMARY

This report provides the Regional Planning Committee and MVRD Board with an overview of the scope and timeline for Phase 3 of the Social Equity in Growth Management project. Regional Planning staff will pilot the use of the social equity baseline indicator mapping analyses from the 2020 Phase 2 report in a series of case study “mini projects” to help support local planning efforts. This project will include a review of the draft policies of *Metro 2050* to identify ways to enhance social equity outcomes through potential future amendments of the regional growth strategy and / or the accompanying Implementation Guidelines.

This phase of work will also involve promoting the indicator data and other resources associated with the project among local planning practitioners. Finally, this project will involve updating the social equity indicator maps with 2021 Census data in early 2023 after the required data becomes available.

PURPOSE

To present the Regional Planning Committee and MVRD Board with the proposed project scope of the Social Equity in Regional Growth Management Phase 3 Study.

BACKGROUND

The Social Equity in Regional Growth Management study was initiated in 2019 and, to date comprises two phases of work (References 1 and 2). The study’s objectives have been to establish a baseline of information about social equity in the region, and to inform the new and amended policy actions of *Metro 2050* and their implementation. This next phase of the project will study opportunities for applying social equity analysis to regional and local planning work such as plans, programs, and policies.

PHASE 3 STUDY – PROJECT GOALS AND OBJECTIVES

The Social Equity in Regional Growth Management Phase 3 Study will focus on piloting the use of social equity analysis by applying the findings and recommended practices coming out of the Phase 1 and 2 studies to a selection of planning case studies and to the policy actions of *Metro 2050*.

This project will include a minimum of 3 case study mapping “mini projects” utilizing the social equity data indicators to help inform planning efforts in the region; e.g. one case study will be focused on

the relationship between the urban heat island effect and tree canopy cover (References 3, 4 and 5). This project will include a review of the policy actions of *Metro 2050* from a social equity perspective, with the objective of identifying ways to enhance the policies and outcomes in the future. This project will also involve sharing and promoting the indicator datasets and other resources currently available among local planning practitioners. Finally, this project will update the equity indicator maps from the Phase 2 work with data from the 2021 Census and other sources; this latter component will likely take place in early 2023 when the necessary data becomes available.

In summary, the purpose of the project is to:

1. Pilot the use of social equity indicator spatial analysis in urban planning through case studies;
2. Raise awareness among local practitioners about social equity analysis methods and available data;
3. Identify how to achieve the goals and targets and implement the policy actions in *Metro 2050* in a more equitable way; and
4. Identify lessons learned to advance local knowledge on the use of social equity planning analysis.

The objectives will be to:

1. Identify three case studies and pilot the use of social equity mapping analysis;
2. Share and promote the use of the social equity indicator data and maps among member jurisdictions and local practitioners through outreach activities including a possible webinar;
3. Apply a social equity analysis to the policy actions of *Metro 2050* and identify opportunities to enhance social equity policies and outcomes;
4. Share the lessons learned from the social equity case study analysis by convening and information sharing with member jurisdiction staff and other practitioners and by reporting out to the Regional Planning Committee and MVRD Board; and
5. Update a selection of the equity indicator maps from Phase 2 with the 2021 Census data.

Project Deliverables

The expected deliverables of the project are:

1. A minimum of three case studies that will involve the creation of maps that could be used to answer planning questions or guide planning efforts.
 - The case studies will be identified in consultation with member jurisdictions and the selected consultant.
 - The case study maps would layer at least one social equity indicator with other planning layers to understand relationships between the data, to identify areas of higher or lower priority or risk, etc.
 - One of the case studies will answer the question “what locations could be prioritized for heat island mitigation interventions that could enhance equity outcomes?” by layering heat island and tree canopy cover data, with a selection of social equity indicator maps.
2. A minimum of one outreach event (webinar, sustainability breakfast, etc.) to share and promote the results of the Phase 2 Study and to encourage planners and other practitioners in the region to use the equity indicator maps and data to inform local planning efforts.

3. A review of the policy actions of *Metro 2050* from a social equity perspective, to determine any potential social equity risks and opportunities. The identified risks and opportunities will be accompanied by mitigation recommendations that could support:
 - a) potential future revisions to the text of *Metro 2050*; and / or
 - b) a component of a new *Metro 2050* Implementation Guideline.
4. An updated selection of Phase 2 equity indicator maps using 2021 Census data.

Project Scope and Timeline

Workstream 1: Social Equity Analysis Case Study maps (Q1-Q3 2022)

- Project Deliverable 1

Workstream 2: Knowledge Sharing and Outreach (Q3/Q4 2022)

- Project Deliverable 2

Workstream 3: Social Equity Review of Metro 2050 (Q3-Q4 2022)

- Project Deliverable 3

Workstream 4: Updating Indicator Maps with 2021 Census Data (Q4 2022 – Q1 2023)

- Project Deliverable 4

NEXT STEPS

The next steps for the first quarter of 2022 will include hiring of a consultant to support the case study mapping efforts and circulating an online survey for member jurisdiction staff. Regional Planning staff will provide the Regional Planning Committee with an interim report mid-year 2022 and a final report in early 2023.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The Board-approved Regional Planning budget for 2022 includes a total of \$40,000 for this study. \$5,000 of this budget will be allocated to support the ongoing work of the Hey Neighbour Research Collective due to the important connections to Metro Vancouver's equity research and opportunities to cross-promote and leverage the work by that group. The remaining \$35,000 will support hiring a consultant to prepare the case study maps as well as to update a selection of the equity indicator maps using 2021 Census data as it becomes available.

CONCLUSION

The Social Equity in Regional Growth Management Phase 3 Study will focus on piloting social equity analysis methods by applying the findings and recommended practices coming out of Phases 1 and 2 of the work to a selection of planning case studies as well as to the policy actions of *Metro 2050*. There are four workstreams proposed as part of this phase comprising: 1) case study maps; 2) knowledge sharing and outreach; 3) social equity review of the policy actions of *Metro 2050*; and 4) updating selected equity indicator maps prepared in Phase 2 with the 2021 Census Data. The work will take place over the course of 2022 and into early 2023. Currently, Regional Planning staff are

soliciting equity mapping analysis case study ideas from Regional Planning Advisory Committee members and other organizations and agencies with an aim to supporting member jurisdictions by applying an equity lens to local planning work.

References

1. [A Review of Social Equity in Regional Growth Management – Phase 1 Report \(2019\)](#)
2. [Metro Vancouver Social Equity and Regional Growth – Phase 2 Report \(2021\)](#)
3. [Social Equity in Regional Growth Management – Key Findings, Staff Report, November 9, 2019](#)
4. [Social Equity and Regional Growth Study, Staff Report, March 5, 2021](#)
5. [Metro Vancouver Social Equity and Regional Growth - Inequity Baseline Data Indicator Maps Phase 2 Report Attachment \(2021\)](#)

48519169

To: Regional Planning Committee

From: Carla Stewart, Senior Planner, Regional Planning and Housing Services

Date: April 8, 2022 Meeting Date: May 19, 2022

Subject: **2022 Agriculture Awareness Grant Recommendations**

RECOMMENDATION

That the MVRD Board award the annual Agriculture Awareness Grants to the following fourteen non-profit organizations as described in the report dated April 8, 2022, titled “2022 Agriculture Awareness Grant Recommendations”:

- a) Fraser North Farmers Market Society, for the “Nibble Network” project in the amount of \$2,500;
 - b) Hives for Humanity Society, for “Stories and Sounds of Connection around Beekeeping and Gardening” in the amount of \$2,000;
 - c) Immigrant Link Centre Society, for the “‘From Pollution to Solution’ Educational Cartoon” project in the amount of \$5,500;
 - d) See-emia Cultural Studies Society, for the “Sovereign Seedlings” project in the amount of \$4,750;
 - e) Urban Bounty/Richmond Food Security Society, for “From Field to Fork” in the amount of \$5,000;
 - f) Delta Farmland & Wildlife Trust, for “Day at the Farm” in the amount of \$4,500;
 - g) BC Agriculture in the Classroom, for “Take a Bite of BC” in the amount of \$3,000;
 - h) Earthwise Society, for the “Tomato Festival” in the amount of \$2,500;
 - i) Public Health Association of BC (PHABC), for “Farm to School BC” in the amount of \$3,500;
 - j) The Sharing Farm Society, for the “12th Annual Garlic Festival” in the amount of \$2,000;
 - k) BC Association of Farmers Markets, for the “PechaKucha: Local Food and Agriculture” project in the amount of \$3,000;
 - l) FarmFolk/CityFolk, for the “Visioning a Sustainable Food System in BC” project in the amount of \$4,250;
 - m) Pacific Immigrant Resources Society (PIRS), for the “Local Food Literacy for Immigrant and Refugee Women in Metro Vancouver” project in the amount of \$5,500; and
 - n) Growing Chefs Society, for “Edible Education Programming” in the amount of \$2,000.
-

EXECUTIVE SUMMARY

Programs and outreach that support local sustainable food production are important contributions toward increasing awareness across the region. The funding provided through the Agriculture Awareness Grants is particularly valuable now for those community organizations doing public outreach on the value of producing or buying food close to home. This report supports those efforts by providing recommendations to the Regional Planning Committee and MVRD Board to award a total of \$50,000 in Agricultural Awareness Grants to fourteen non-profit organizations in 2022. Metro Vancouver has awarded grants for agriculture awareness since 2008, as recommended by the Agricultural Advisory Committee (AAC).

PURPOSE

The purpose of this report is to recommend that the MVRD Board award funding grants to non-profit organizations from around the region that are leading public awareness activities about the importance of local agriculture and food production and about educating residents on how to grow and cook food produced in the region.

BACKGROUND

The MVRD Board has supported agriculture awareness since 1994 in part to raise public understanding about the importance of local food and agriculture production in the region. The grant program started in 2008 and continues to provide annual funding to non-profit organizations that undertake such things as hosting events, workshops and educational programs in schools and communities. This report provides the recommended awards for 2022.

AGRICULTURE AWARENESS GRANTS

The number of applications and grants awarded over the past fourteen years is listed by year in Table 1. A description of previous grant recipients is available on the Metro Vancouver website (Reference).

Table 1: Metro Vancouver Agricultural Awareness Grant Program 2008 – 2021

Year	Number of Applications	Number of Grants Awarded	Funding Awarded
2008	11	3	\$25,000
2009	14	5	\$25,000
2010	14	7	\$30,000
2011	12	9	\$35,000
2012	27	8	\$35,000
2013	13	9	\$40,000
2014	15	11	\$40,000
2015	14	11	\$40,000
2016	12	11	\$40,000
2017	21	13	\$40,000
2018	24	12	\$40,000
2019	15	13	\$45,000
2020	21	12	\$45,000
2021	14	11	\$50,000
TOTAL	203	123	\$530,000

In 2021, a total of \$50,000 in Agricultural Awareness Grants was awarded to eleven non-profit organizations. Although there were participation impacts due to the COVID-19 pandemic, all projects were able to proceed, some with slight modifications, and complete their work programs. In some cases, project deadlines were extended slightly to accommodate the on-going COVID-19 restrictions.

GRANT APPLICATION EVALUATION CRITERIA

The mandatory requirements for agricultural awareness projects receiving a grant are:

- a) have a regional scope (i.e. impacting more than one municipality);
- b) be located in Metro Vancouver;
- c) be administered by a non-profit organization in good standing; and

d) have matching funding (dollars or in-kind) from another organization.

The six evaluation criteria and basis for scoring are the following:

1. The agriculture awareness activity is unique. A high score will be given to awareness activities that are one of a kind in the region and are currently not being done by another organization in Metro Vancouver.
2. The geographic scope of the grants awarded reaches out to municipalities across the region. A high score will be awarded to projects that provide a broad reach in Metro Vancouver or are targeting areas that are currently not well served by agriculture awareness activities.
3. The activity reaches out to culturally diverse audiences, urban residents, youth or K-12 school aged children. A high score will be awarded when these audiences are targeted in the awareness activity.
4. The activity contributes to the following desirable outcomes that support regional policy objectives, where a high score is awarded when the agriculture awareness activity aligns with two or more of the regional policy objectives:
 - Educates residents about local food production;
 - Enhances food literacy and skills in schools;
 - Communicates how food choices support the local economy;
 - Supports the next generation of food producers; and
 - Involves community gatherings that educate residential about local food.
5. The grant request is in the range of \$500 to \$6,000. A higher score will be awarded if the Metro Vancouver cash contribution is greater than 20% of the total cash budget, so that projects that may have a greater financial need are prioritized.
6. The extent to which grant applicants have received previous Agriculture Awareness Grant funding, and the completion of the imposed conditions listed on the application form. Groups that have not previously received a grant would automatically score high, while the previous grant recipients would be scored based on past compliance with the five conditions.

2022 AGRICULTURE AWARENESS GRANTS

On February 2, 2022, agricultural-related organizations, community groups and municipal staff liaisons were notified about the opening of Metro Vancouver's 2022 Agriculture Awareness Grants with an invitation to submit an application which was made available on the Metro Vancouver website. Sixteen applications were received by the March 1, 2022 deadline. The grant applications were evaluated by two AAC members and staff using the mandatory requirements and evaluation criteria listed above. Table 2, shown below, highlights the 2022 Agriculture Awareness Grant applications submitted by non-profit organizations, and the recommended grants. Each funding request was reviewed based on the amount of additional funding available to that organization and the overall amount the organization was relying on the funding coming from the grant. All but two of the qualifying applications had funding from other sources or had substantial budgets that marginally or somewhat relied on these grants as a funding source. The proposed grants being recommended were deemed the fairest based on the information received in each application.

A summary description of all the applications is provided in the attachment and a list of all the recommended Agriculture Awareness Grants is provided in Table 2.

Table 2: List of 2022 Agriculture Awareness Applications and Recommended Grant Amounts

#	NON-PROFIT GROUP	PROJECT TITLE	GRANT REQUEST	RECOMMENDED GRANT
1	Fraser North Farmers Market Society	Nibble Network	\$2,500	\$2,500
2	Hives for Humanity Society	Stories and Sounds of Connection Around Beekeeping and Gardening	\$4,434	\$2,000
3	Immigrant Link Centre Society	"From Pollution To Solution" Educational Cartoon	\$6,000	\$5,500
4	See-emia Cultural Studies Society	Sovereign Seedlings	\$6,000	\$4,750
5	Urban Bounty/Richmond Food Security Society	From Field to Fork	\$5,950	\$5,000
6	Delta Farmland & Wildlife Trust	Day at the Farm	\$6,000	\$4,500
7	BC Agriculture in the Classroom	Take a Bite of BC	\$6,000	\$3,000
8	Earthwise Society	Tomato Festival	\$2,500	\$2,500
9	Public Health Association of BC (PHABC)	Farm to School BC	\$6,000	\$3,500
10	The Sharing Farm	12th Annual Garlic Festival	\$3,000	\$2,000
11	BC Association of Farmers Markets	PechaKucha: Local Food and Agriculture	\$3,450	\$3,000
12	FarmFolk/CityFolk	Visioning a Sustainable Food System in BC	\$6,000	\$4,250
13	Pacific Immigrant Resources Society (PIRS)	Local Food Literacy for Immigrant and Refugee Women in Metro Vancouver	\$6,000	\$5,500
14	Growing Chefs Society	Edible Education Programming	\$6,000	\$2,000
Total			\$69,834	\$50,000

ALTERNATIVES

1. That the MVRD Board award the annual Agriculture Awareness Grant to the following fourteen non-profit organizations as described in the report dated April 8, 2022, titled "2022 Agriculture Awareness Grant Recommendations":
 - a) Fraser North Farmers Market Society, for the "Nibble Network" project in the amount of \$2,500;
 - b) Hives for Humanity Society, for "Stories and Sounds of Connection around Beekeeping and Gardening" in the amount of \$2,000;

- c) Immigrant Link Centre Society, for the “From Pollution to Solution’ Educational Cartoon” project in the amount of \$5,500;
 - d) See-emia Cultural Studies Society, for the “Sovereign Seedlings” project in the amount of \$4,750;
 - e) Urban Bounty/Richmond Food Security Society, for “From Field to Fork” in the amount of \$5,000;
 - f) Delta Farmland & Wildlife Trust, for “Day at the Farm” in the amount of \$4,500;
 - g) BC Agriculture in the Classroom, for “Take a Bite of BC” in the amount of \$3,000;
 - h) Earthwise Society, for the “Tomato Festival” in the amount of \$2,500;
 - i) Public Health Association of BC (PHABC), for “Farm to School BC” in the amount of \$3,500;
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 - m) Pacific Immigrant Resources Society (PIRS), for the “Local Food Literacy for Immigrant and Refugee Women in Metro Vancouver” project in the amount of \$5,500; and
 - n) Growing Chefs Society, for “Edible Education Programming” in the amount of \$2,000.
2. That the Regional Planning Committee receive for information the report dated April 8, 2022 titled “2022 Agriculture Awareness Grant Recommendations” and provide alternative direction to staff.

FINANCIAL IMPLICATIONS

The total funds available for the Agriculture Awareness Grants in 2022 is \$50,000. This amount is included in the Board-approved Regional Planning budget for 2022. If the Board chooses Alternative 1, successful grant recipients will be notified.

CONCLUSION

Based on the evaluation conducted by AAC members and by staff, fourteen non-profit organizations are recommended to receive grant, for a total amount of \$50,000. The recommendations enable the continuation of successful educational programs and community agriculture-related events in 2022. Staff recommend Alternative 1.

Attachment

Description of the 2022 Agriculture Awareness Grant Applications

Reference

[Previous Agriculture Awareness Grant Recipients](#)

Summary List of 2022 Agriculture Awareness Applications

#	NON-PROFIT GROUP	PROJECT TITLE	BRIEF PROJECT DESCRIPTION	GRANT REQUEST	TOTAL BUDGET
1	Vancouver Urban Food Forest Foundation (VUFFF)	Vancouver Urban Food Forest (VUFF)	Develop a communal garden and food forest.	\$6,000	\$87,000
2	Fraser North Farmers Market Society	Nibble Network	Educate children and their parents about the value of local food production.	\$2,500	\$4,000
3	Association of Neighbourhood Houses of BC	Youth Environmental and Agriculture Hub (YEAH!)	Strengthen youth (13-18) knowledge, education and connection to food systems, upcycling and sustainable cooking.	\$6,000	\$28,914
4	Hives for Humanity Society	Stories and Sounds of Connection Around Beekeeping and Gardening	Create a Digital Sound Map to share stories of connection to land and food, community and culture.	\$4,434	\$22,434
5	Immigrant Link Centre Society	"From Pollution To Solution" Educational Cartoon	Create an educational cartoon about food waste by K12 students.	\$6,000	\$6,000
6	See-emia Cultural Studies Society	Sovereign Seedlings	Grow Indigenous seedlings and promote propagation of Indigenous plant species.	\$6,000	\$25,800
7	Urban Bounty/Richmond Food Security Society	From Field to Fork	Showcase urban small production growers and enhance food literacy through cooking demonstrations and workshops.	\$5,950	\$10,450
8	Delta Farmland & Wildlife Trust	Day at the Farm	Annual outreach event to directly connect to local farmers and learn about diversity of agriculture in our communities.	\$6,000	\$42,910
9	BC Agriculture in the Classroom	Take a Bite of BC	Provides fresh BC grown products to BC Culinary Arts Secondary students.	\$6,000	\$172,370
10	Earthwise Society	Tomato Festival	Family-friendly community gathering and celebration of history and diversity of BC agriculture with a focus on heirloom tomatoes.	\$2,500	\$6,000
11	Public Health Association of BC (PHABC)	Farm to School BC	Video series profiling diversity of food producers and land stewards in Metro Vancouver.	\$6,000	\$20,825
12	The Sharing Farm	12th Annual Garlic Festival	Support food-dignity to grow fresh local organic produce for low-income families through the Garlic Festival.	\$3,000	\$31,600
13	BC Association of Farmers Markets	PechaKucha: Local Food and Agriculture	Increase awareness about local agriculture and food initiatives through a PechaKucha storytelling.	\$3,450	\$5,950
14	FarmFolk/CityFolk	Visioning a Sustainable Food System in BC	Public engagement project to involve residents in exploring and questioning what a thriving, sustainable food system in BC can look like.	\$6,000	\$19,500
15	Pacific Immigrant Resources Society (PIRS)	Local Food Literacy for Immigrant and Refugee Women in Metro Vancouver	Expand on recent survey results and respond to community need by increasing local food literacy and participation through a food skill program and farm tours.	\$6,000	\$6,000
16	Growing Chefs Society	Edible Education Programming	Children grow their own food, connect to local farmers and chefs and learn where/how food is grown.	\$6,000	\$220,381
TOTALS				\$81,834	\$710,134

Summary List of 2022 Agriculture Awareness Applications

#	NON-PROFIT GROUP	PROJECT TITLE	BRIEF PROJECT DESCRIPTION	GRANT REQUEST	TOTAL BUDGET
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TOTALS				\$81,834	\$710,134

To: Regional Planning Committee

From: James Stiver, Division Manager, Regional Land Use Policy,
Regional Planning and Housing Services

Date: April 14, 2022 Meeting Date: May 19, 2022

Subject: **Request for Sanitary Service Connection at 13179 224 Street, Maple Ridge**

RECOMMENDATION

That the MVRD Board:

- a) resolve that the extension of GVS&DD sewerage services to an existing restaurant and three additional existing businesses at 13179 224 Street in the City of Maple Ridge is consistent with the provisions of Metro Vancouver 2040: Shaping our Future, and
- b) forward the requested Fraser Sewerage Area extension application to the GVS&DD Board for consideration.

EXECUTIVE SUMMARY

The City of Maple Ridge submitted an application to the Greater Vancouver Sewerage and Drainage District to extend sewer service to a parcel to provide servicing to allow for the expansion of an existing restaurant at 13179 224 Street. The property is outside of the Fraser Sewerage Area, on land with a *Metro 2040* Agricultural land use designation, and outside of the Urban Containment Boundary. In accordance with the requirements in *Metro 2040*, the request is being presented to the MVRD Board for consideration of consistency with the regional growth strategy.

This report asserts that the application is generally consistent with *Metro 2040* given that:

- the Agricultural Land Commission has confirmed that the *Agricultural Land Commission Act* does not apply to the parcel given its size;
- an on-site septic system is not feasible for the proposed use;
- the connection will not result in the expansion of the existing uses on the site;
- the proposal will not impact the surrounding agricultural uses; and
- sewerage infrastructure is located under 224 Street, across the frontage of the property.

PURPOSE

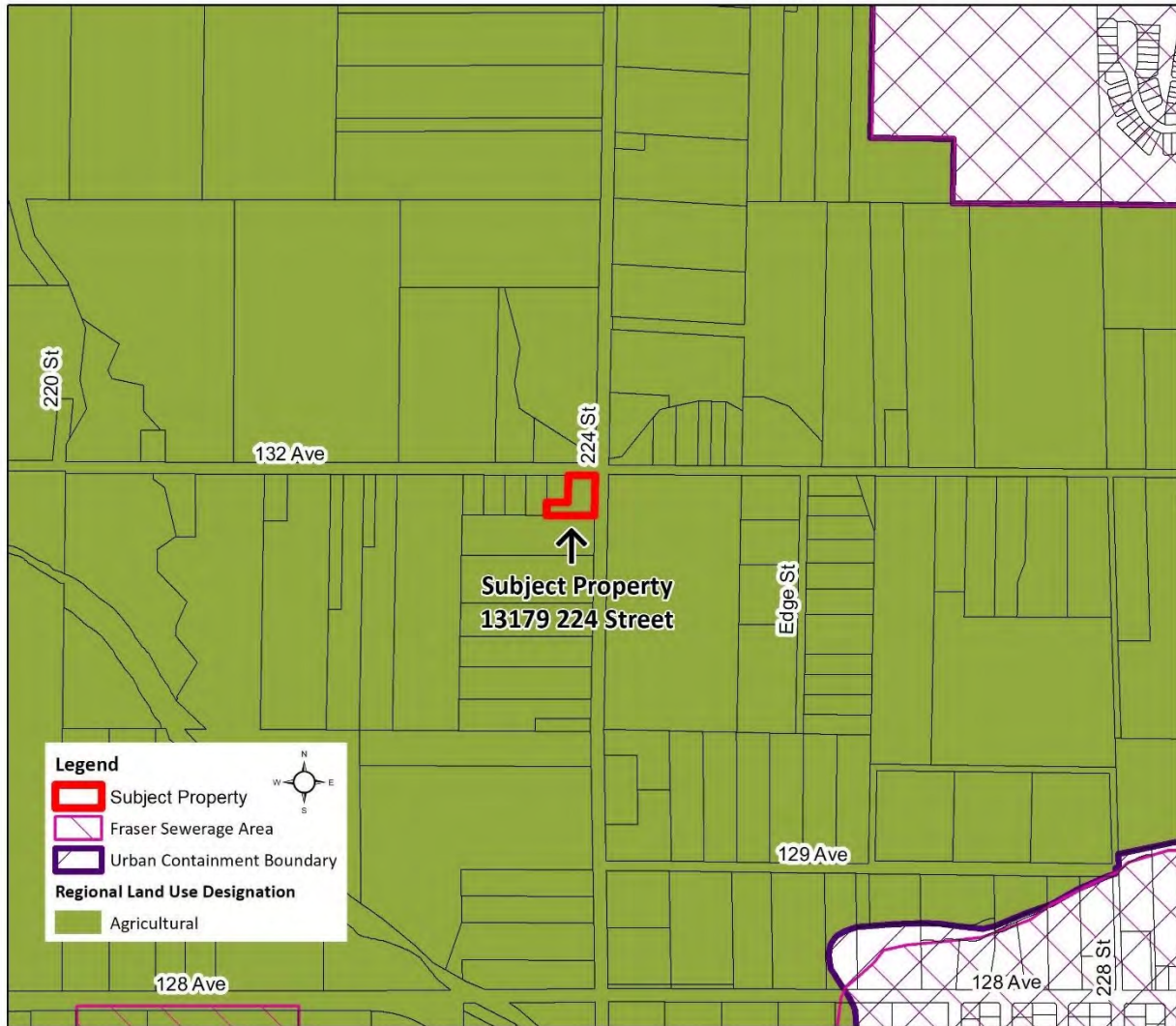
This report seeks MVRD Board concurrence that the City of Maple Ridge's request for a sanitary service connection to allow for the expansion of an existing restaurant at 13179 224 Street is consistent with *Metro Vancouver 2040: Shaping our Future (Metro 2040)*.

BACKGROUND

On November 4, 2019, the City of Maple Ridge submitted an application to the Greater Vancouver Sewerage and Drainage District (GVS&DD) to service the property at 13179 224 Street (Attachment 1). An expansion to the existing restaurant on the site is proposed, which is permitted by the City's current zoning. The site is also home to an existing auto repair shop, a dog grooming business, and a convenience store. All of these uses are intended to be serviced with the proposed sewer connection. The size of the connection is proposed to only accommodate the existing uses and the expanded restaurant.

The property is currently serviced by an on-site septic system. The property owner is unable to construct an upgraded system due to the size of the parcel, and the susceptibility of the site to seasonal flooding poses a potential health risk from the septic field and its proximity to the restaurant. The site is located outside of the GVS&DD Fraser Sewerage Area (FSA) on land with a *Metro 2040* Agricultural land use designation and outside of the Urban Containment Boundary (Figure 1).

Figure 1 - Map of 13179 224 Street, Regional Land Use Designations and FSA Boundary



In accordance with the requirements in the *Local Government Act* and *Metro 2040*, the request is being presented to the MVRD Board for consideration of consistency with the regional growth strategy.

METRO 2040 AND SEWERAGE AREA EXTENSION REQUESTS

Section 6.8 of *Metro 2040* includes provisions for coordination amongst the Metro Vancouver Boards to ensure alignment between the policies of the regional growth strategy, as governed by the MVRD Board, and the works and services governed by the GVS&DD and Greater Vancouver Water District Boards. The intention of limiting the extension of sewerage services from a regional growth management perspective is to support: urban containment; the protection of Agricultural, Rural and Conservation and Recreation designated lands; and the efficient provision of regional infrastructure services, which are all key tenets of *Metro 2040*. Furthermore, in accordance with subsection 445(1) of the *Local Government Act*, *Metro 2040* requires that all services undertaken by the GVS&DD be consistent with *Metro 2040*.

Specifically, Section 6.8.1 of *Metro 2040* states that:

The Greater Vancouver Sewerage and Drainage District and the Greater Vancouver Water District will not directly or indirectly supply, agree to supply, or authorize connections that enable the supply of services to a site that is developed or proposed to be developed after the date of adoption of the Regional Growth Strategy where the nature of that development is, in the sole judgment of the Greater Vancouver Regional District, inconsistent with the provisions of the Regional Growth Strategy.

While *Metro 2040* establishes the extent of urban development within the region, the provision of regional sewerage services is administered by the GVS&DD. Any requests from member jurisdictions to amend the GVS&DD sewerage area or to provide sewer services onto lands designated Agricultural, Rural or Conservation and Recreation in *Metro 2040* must be presented to the MVRD Board for consideration prior to be considered by the GVS&DD Board. These same provisions have been carried forward into the draft *Metro 2050*, the update to the regional growth strategy.

The GVS&DD regional sewerage area boundaries were drawn prior to the adoption of *Metro 2040*. As a result, there are some locations where the sewerage area and regional land use designations do not align. For properties designated Agricultural, Rural or Conservation and Recreation located outside of the sewerage area (as is the case with the subject property), the MVRD Board must first determine whether servicing is appropriate and consistent with the policies of *Metro 2040*, after which the final decision to amend the sewerage area boundary rests with the GVS&DD Board. Alternatively, for properties within the sewerage area that are designated Agricultural, Rural or Conservation and Recreation, only MVRD Board approval is required. In both cases, where the MVRD Board determines the sewerage area boundary amendment is not consistent with *Metro 2040*, the GVS&DD is obligated to deny the application.

REGIONAL PLANNING ANALYSIS

The subject property is a developed parcel designated Agricultural in *Metro 2040* and outside of both the FSA and the Urban Containment Boundary, with an existing sanitary sewer located under 224 Street across the frontage of the property. The Agricultural Land Commission has indicated that the site is not subject to the restrictions on the use of agricultural land contained in the *Agricultural Land Commission Act* (Attachment 3). Therefore, the Agricultural land use designation does not need to change to accommodate the proposed use.

Section 2.3.1 of *Metro 2040* (and *Metro 2050*) states that the GVS&DD Board will not allow connections to regional sewerage services to lands with an Agricultural regional land use designation

except where the MVRD Board determines that the new development is consistent with the provisions of that designation and where it has been determined that:

- a) *that the connection to regional sewerage services [is] the only reasonable means of preventing or alleviating a public health or environmental contamination risk; or*
- b) *that the connection to regional sewerage services would have no significant impact on the strategy to protect the supply of agricultural land and promoting agricultural viability with an emphasis on food production.*

In this case, the extension of sewer services pursuant to *Metro 2040* section 2.3.1(b) is supportable based on the following rationale:

- The Agricultural Land Commission has confirmed that the site is not subject to the *Agricultural Land Commission Act*;
- It has been determined that an on-site septic system is not feasible for the proposed restaurant expansion;
- The proposed use will not impact the surrounding agricultural uses nor impact urban containment objectives;
- Existing sewerage infrastructure is located under 224 Street, across the frontage of the property; and
- The proposed connection will only be sized to accommodate the existing businesses on the site and the proposed restaurant expansion such that the required connection will have limited potential for prompting additional regional sewerage connection requests in the surrounding area.

In preparing the above rationale, staff considered the criteria identified in *Metro 2040 Implementation Guideline #7: Extension of Regional Sewerage Services*, which outlines the application process and review criteria for member jurisdictions requesting a connection to regional sewerage services (Reference). The Implementation Guideline also indicates a requirement that applications for connection to regional sewerage services must be initiated by a resolution of the respective municipal council. Maple Ridge Council passed a resolution at its meeting on October 22, 2019 and forwarded it by letter to Metro Vancouver Liquid Waste Services staff (Attachment 1).

While it is recognized and anticipated that other owners of Rural or Agriculturally-designated properties outside the FSA may continue to make similar requests for servicing extension over time, any future applications will be considered on a case-by-case basis based on the provisions of the regional growth strategy. As such, should this servicing extension request be supported by the MVRD Board, staff do not anticipate a significant impact to the *Metro 2040* (or *Metro 2050*) objectives for urban containment or related regional land use designations, goals and strategies.

ALTERNATIVES

1. That the MVRD Board:

- a) resolve that the extension of GVS&DD sewerage services to an existing restaurant and three additional existing businesses at 13179 224 Street in the City of Maple Ridge is consistent with the provisions of Metro Vancouver 2040: Shaping our Future, and
- b) forward the requested Fraser Sewerage Area extension application to the GVS&DD Board for consideration.

2. That the MVRD Board resolve that the extension of GVS&DD sewerage services to an existing restaurant and three additional existing businesses at 13179 224 Street in the City of Maple Ridge is not consistent with the provisions of *Metro Vancouver 2040: Shaping our Future* and direct staff to notify both the City of Maple Ridge and the GVS&DD Board.

FINANCIAL IMPLICATIONS

There are no financial implications to this report from a Regional Planning perspective. Any financial implications related to the proposed servicing connection will be considered within the GVS&DD's application review process. If the MVRD Board chooses Alternative 1, as the property is located outside of the FSA, GVS&DD Board approval is still needed. The MVRD Board decision would be forwarded to Metro Vancouver's Liquid Waste Services staff who would then undertake the technical considerations of the sewerage connection application and report to the GVS&DD Board for consideration. If the MVRD Board chooses Alternative 2, the decision would be forwarded to Liquid Waste Services staff and the GVS&DD Board, and the City of Maple Ridge would be notified. The GVS&DD would be required to decline the application.

CONCLUSION

The GVS&DD has received an application from the City of Maple Ridge to extend a sanitary service connection to a property at 13179 224 Street to allow for an expansion to an existing restaurant. The parcel is proposed to be located within an adjusted FSA boundary. However, since the subject property is designated Agricultural in *Metro 2040* the MVRD Board must first determine if the proposed extension is consistent with the provisions of *Metro 2040* and will not impact urban containment objectives nor the protection of agricultural land.

Given that there is an existing sewer service across the frontage of the property, the Agricultural Land Commission has indicated that it is not subject to the *Agricultural Land Commission Act*, the construction of an expanded on site septic system is not feasible, the site is currently home to an existing auto repair shop, a dog grooming business, and a convenience store, and the proposed connection will be sized to only service the existing businesses and proposed to be expanded restaurant on the site, the extension of sewer service can be considered consistent with the provisions of *Metro 2040*. Staff therefore recommend Alternative 1.

Attachments

1. Letter from the City of Maple Ridge dated November 4, 2019 to Metro Vancouver Liquid Waste Services staff requesting a sanitary sewer service connection for 13179 224 Street.
2. Letter from the Agricultural Land Commission dated December 14, 2021.

Reference

[Implementation Guideline #7: Extension of Regional Sewerage Services](#)

November 4, 2019

Fred Nenninger
Director, Policy Planning and Analysis
Metro Vancouver
4330 Kingsway
Burnaby BC V5H 4G8

Dear Mr. Nenninger:

Re: Urban Containment Boundary – Request for Sanitary Service Connection
13179 224 Street, Maple Ridge
Our File: 11-5340-01

On October 29, 2019, City of Maple Ridge staff presented a report to Council for the request to provide a sanitary service connection to 13179 224 Street. The identified area is defined and described in the attached Council report and map.

Maple Ridge Council adopted the following resolution:

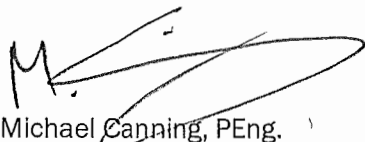
Resolution 1112 – October 29, 2019

THAT the request to provide a sanitary service connection to 13179 224 Street be supported and forwarded to the Greater Vancouver Sewerage and Drainage District Board for consideration.

As such, this letter is our formal request to allow the subject property connection to the sanitary sewer system.

We would appreciate if you could acknowledge receipt of this request. Should you have any questions or require further information, please contact the undersigned at mcanning@mapleridge.ca or 604-467-7465.

Yours truly,



Michael Canning, PEng.
Manager of Infrastructure Development

/mi

Att.

That the request to provide a sanitary service connection to 13179 224 Street be supported and forwarded to the Greater Vancouver Sewerage and Drainage District Board for consideration.


~~CARRIED~~ DEFEATED DEFERRED "Mike Morden" _____ MAYOR

ACTION NOTICE

- TO: Chief Administrative Officer _____
 Dir - Corporate Administration _____
 Chief Financial Officer _____
 Dir - Human Resources _____
 Dir - Economic Dev & Civic Properties _____
 Corporate Controller _____
 Chief Information Officer _____
 Mgr - Communications _____
 RCMP _____
 Fire Chief _____
 Gen Mgr - Planning & Development _____
 Dir - Planning _____
 Mgr - Bylaws & Licences _____
 Gen Mgr - Engineering Services _____
 Municipal Engineer _____
 Dir - Engineering Operations _____
 Gen Mgr - Parks, Rec & Culture _____
 Dir - Parks & Facilities _____
 Dir - Recreation & Com. Engagement _____
- Clerk's Section
 Corporate Officer _____
 Deputy Corporate Officer _____
 Risk & Insurance _____
 Front Desk Reception _____
 Legislative Clerk _____
 Committee Clerk _____
 Confidential Secretary _____
 Conveyancing Clerk _____

The above decision was made at a meeting of the City Council held on the date noted above and is sent to you for notation and/or such action as may be required by your Department.

October 29, 2019
Date



Corporate Officer

TO: His Worship Mayor Michael Morden MEETING DATE: October 22, 2019
and Members of Council FILE NO: 11-5340-01
FROM: Chief Administrative Officer MEETING: COW
SUBJECT: 13179 224 Street – Request for Sanitary Service Connection Outside Urban
Containment Boundary

EXECUTIVE SUMMARY:

The owners at 13179 224 Street are in the preliminary stages of a building permit application to expand the existing restaurant on the property as permitted by the current zoning. The subject property is located outside the Urban Containment Boundary (UCB) and the existing structure is serviced via an onsite septic system.

Under current Metro Vancouver regulations, any extension or amendment of sanitary servicing (including on-site changes in use or capacity) to properties outside of the UCB requires approval of the Greater Vancouver Sewerage and Drainage District (GVS&DD) Board. Applications require a municipal Council resolution prior to consideration by the Board, as identified in the Metro-Vancouver Implementation Guideline #7.

The additional connection to the sanitary system does not represent a significant change in the sanitary capacity requirement and does not increase the pressure to provide sanitary services for development properties outside of the UCB, as such the application can be supported under Section 2.3.2 of Implementation Guideline #7.

It is recommended that Council support the request to seek approval from Metro Vancouver to provide a sanitary service connection to the property.

RECOMMENDATION:

That the request to provide a sanitary service connection to 13179 224 Street be supported and forwarded to the Greater Vancouver Sewerage and Drainage District Board for consideration.

DISCUSSION:

a) **Background Context:**

The owners at 13179 224 Street are in the preliminary stages of a building permit application to expand the existing restaurant on the property as permitted by the current zoning. The proposed sanitary service connection would provide service for the entire site, not just the restaurant. Other uses on the site include an auto repair shop, a dog grooming business, and a corner store. The property is outside the Urban Containment Boundary (UCB) and the existing structures are serviced with an onsite septic system.

Under the current Metro Vancouver regulations any extension or amendment of sanitary servicing (including on-site changes in use or capacity) to properties outside of the UCB requires approval of the Metro Vancouver GVS&DD Board. Applications require a municipal Council resolution prior to consideration by the Board, as identified in the Metro Vancouver Implementation Guideline #7.

The addition of these structures to the sewer system does not represent a significant change in the sanitary capacity requirement and does not increase the pressure to provide sanitary services for development properties outside of the UCB and as such the application can be supported under Section 2.3.2 of Implementation Guideline #7.

The sanitary sewer in 224 Street fronting this property is a pressurized sanitary forcemain that provides sanitary service for the Blaney Hamlet area of Silver Valley. This forcemain conveys sanitary wastewater from the 136 Avenue / Foreman Drive Pump Station along 224 Street to the North Slope Sanitary Interceptor Trunk Main at 127 Avenue. Service connections to pressurized forcemains are much more complex than a typical gravity service connection and require multiple shut off valves and backflow check valves to reduce the chance of a failure of the service connection. Additionally the consequences of a failure of a pressurized connection are much higher than for a typical gravity connection as the pressurized wastewater would discharge on the site.

As this proposed service connection would utilize a pressurized sanitary forcemain a restrictive covenant will be registered on title indemnifying the City from liability as a result of the service connection operation.

b) Desired Outcome:

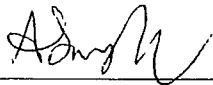
That Metro Vancouver approve the property owner's request for a sanitary service connection to the regional collection system. The service connection shall be sized to accommodate a capacity no greater than necessary to service the proposed building.

c) Alternatives:

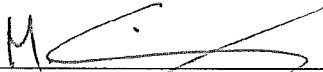
Not supporting the request would prevent the applicant from connecting to the regional collection system and require an upgrade of the existing on-site septic system. There are logistical issues of upgrading the existing septic system as this would require a larger septic tank and septic field and land space is already limited. Also, the area is susceptible to flooding and having a large septic field nearby the restaurant poses a potential health risk.

CONCLUSION:

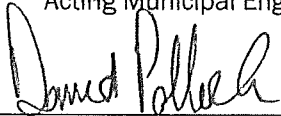
The application to seek Metro Vancouver approval to connect to the regional sewer system is consistent with Section 2.3.2 of Metro Vancouver's Implementation Guideline #7, represents a minimal increase to the sanitary flows and does not result in any decrease in the service levels of the existing sanitary sewer system. As such it is recommended that Council support the request and that the application be forwarded to Metro Vancouver for consideration and approval.



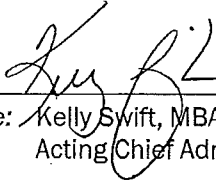
Submitted by: Amrit Kang, EIT
Engineering Technologist



Reviewed by: Mike Canning, PEng.
Acting Municipal Engineer



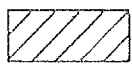
Approved by: David Pollock, PEng.
General Manager Engineering Services

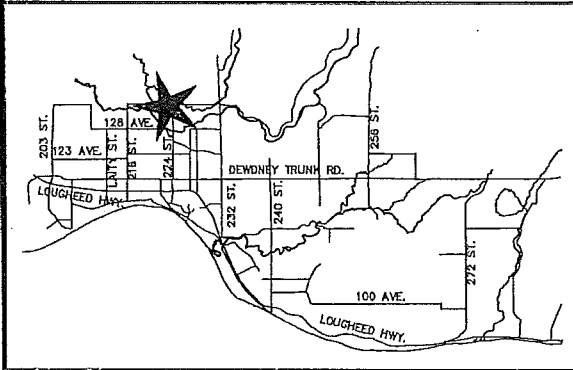


Concurrence: Kelly Swift, MBA
Acting Chief Administrative Officer

Attachments:
(A) Map




 Metro Vancouver Urban Containment Boundary



N

 SCALE:
 N.T.S.

	CITY OF MAPLE RIDGE ENGINEERING DEPARTMENT	
	13179 224 STREET URBAN CONTAINMENT BOUNDARY	
DATE:	JUNE 2019	FILE/DWG No SK0420



ATTACHMENT 2

Agricultural Land Commission
201 – 4940 Canada Way
Burnaby, British Columbia V5G 4K6
Tel: 604 660-7000
Fax: 604 660-7033
www.alc.gov.bc.ca

December 14, 2021

ALC Inquiry: 52452

Jai and Sharda Singh
12196 Dunbar St
Maple Ridge
V2X 5T6

Ronald Singh
22378 132nd St
Maple Ridge
V4R 2P6

Sent electronically to: rollenberger@mapleridge.ca

Dear Sirs/Madam:

RE: PID 006-784-801

Lot 6 Section 30 Township 12 New Westminster District Plan 10983

This letter is further to e-mail correspondence received December 13, 2021. The purpose of the correspondence was to confirm whether the above referenced property is subject to either the *Agricultural Land Commission Act* or BC Regulation 30/2019 (Agricultural Land Reserve Use Regulation) as per s.23(1) of the *Agricultural Land Commission Act* which reads:

Exceptions

23(1) Restrictions on the use of agricultural land do not apply to land that, on December 21, 1972, was, by separate certificate of title issued under the *Land Registry Act*, R.S.B.C. 1960, c. 208, less than 2 acres in area.

Based on the information provided, the Agricultural Land Commission (the "ALC") has ascertained the following facts:

1. The property is legally described as:

PID 006-784-801

Lot 6 Section 30 Township 12 New Westminster District Plan 10983

2. Lot 6 Plan 10983 was subdivided in June 1949 and was shown as 0.777 acres on the registered subdivision plan.

3. The Certificate of Title in effect for Lot 6 Plan 10983 as of December 21, 1972 was 581580E (registered July 25, 1966) and Lot 6 was the only parcel listed on the title.

This letter is to confirm that Lot 6 Plan 10983 is not subject to the restrictions on the use of agricultural land contained in the *Agricultural Land Commission Act* and BC Regulation 30/2019 (Agricultural Land Reserve Use Regulation).

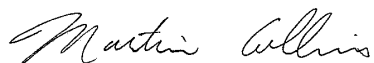
Please be advised that this does not relieve the owner or occupier of the responsibility to comply with applicable Acts, regulations, bylaws of the local government, and decisions and orders of any person or body having jurisdiction over the land under an enactment.

Also, please note that this confirmation of “exception” from the restrictions of the ALC Act does not suggest that a local government is compelled to re-designate or re-zone the property for non-agricultural uses or to permit subdivision. The ALC recommends that the local government exercise its authority to refuse to authorize incompatible uses on excepted parcels, or to minimize their impact on adjoining farmland as per advice provided in Ministry of Agriculture’s [Guide to Edge Planning](#). Any future advice provided to the local government by the ALC as part of bylaw referral process, further described in the [ALC Bylaw Reviews: A Guide for Local Governments](#), will confirm the ALC’s mandate to preserve farmland and maintain the integrity of the ALR.

Please direct further correspondence with respect to this letter to ALC.LUPRT@gov.bc.ca.

Yours truly,

PROVINCIAL AGRICULTURAL LAND COMMISSION



Martin Collins, Director of Policy and Planning

To: Metro Vancouver Housing Corporation Board

From: Linda Sabatini, Acting Director, Financial Operations

Date: April 19, 2022 Meeting Date: May 19, 2022

Subject: **Renewal of MVRD Internal Financing of MVHC Mortgages**

RECOMMENDATION

That the MVRD Board:

- a) approve continuing to provide first mortgage financing on five MVHC properties. The mortgages will be for another five-year term, and will have a variable interest rate based upon Metro Vancouver's internal rate of return on investments; and
 - b) direct the Corporate Officer to publish in the newspaper, pursuant to requirements of Section 272 of the Local Government Act, Metro Vancouver's intention to lend money to the MVHC.
-

EXECUTIVE SUMMARY

The approval of continuing to provide first mortgage financing for Semlin Terrace, Grandview Gardens, Kelly Court, Earle Adams and Euclid Square for a five-year term at a variable interest rate based on MVRD's estimated internal rate of return on investments, is recommended. The estimated rate for 2022 1.7%, well below current institutional rate of 2.52%. MVRD has provided first mortgage financing for these properties since 2017 and this will be the last renewal term for these mortgages.

As there continues to be global uncertainty in the economy, and with anticipated interest rates hikes, financing these mortgages through MVRD provides MVHC with the greatest flexibility and financial savings. The risk of rising interest rates is somewhat mitigated in that MVHC earns the same internal rate on its reserve funds held by MVRD.

PURPOSE

To seek MVHC Board approval to continue providing first mortgage financing for the Semlin Terrace, Grandview Gardens, Kelly Court, Earl Adams and Euclid Square properties. All of these properties are owned by the MVHC.

BACKGROUND

The MVRD has provided first mortgage financing for 5 MVHC properties (Semlin Terrace, Grandview Gardens, Kelly Court, Earl Adams and Euclid Square) since 2017. The current mortgage arrangement covers five year terms with a variable interest rate, charged annually, based on MVRD'S estimated internal rate of return on investments.

Previously, the mortgages were held by CMHC. In 2017, the Federal Government provided funds to allow prepayment of long-term debt held by CMHC without penalty so that social housing providers could access financing from the private market at lower interest rates. MVRD took over the financing of these mortgages at that time.

These properties are on 60-year City of Vancouver leased lands that have approximately 15 years remaining.

Semlin Terrace is a 36-unit complex and Grandview Gardens is a 20-unit complex. Both were built in 1977. Kelly Court is a 45-unit complex, Earl Adams Village has 105 units and Euclid Square has 33 units. These 3 were built in 1979. All 5 of these properties are in the City of Vancouver. The current 5-year financing terms for these 5 properties are set to expire on June 1, 2022. This report brings forward the options for renewal.

FINANCING DETAILS

Details on the existing financing arrangement, as at February 28, 2022 are as follows:

Semlin Terrace

Remaining Principal	\$479,051
Amortization Period	10 years, beginning June 1, 2017
Interest Rate	Variable, based on MVRD's estimated weighted internal rate of return. (this represents the rate of interest had the monies been invested rather than loaned to the MVHC). The estimated internal rate for 2022 is 1.70%.
Term	5 years
Annual Principal Payment	\$82,123

Grandview Gardens

Remaining Principal	\$324,158
Amortization Period	10 years, beginning June 1, 2017
Interest Rate	Variable, based on MVRD's estimated weighted internal rate of return. (this represents the rate of interest had the monies been invested rather than loaned to the MVHC). The estimated internal rate for 2022 is 1.70%.
Term	5 years
Annual Principal Payment	\$55,570

Kelly Court

Remaining Principal	\$643,286
Amortization Period	10 years, beginning June 1, 2017
Interest Rate	Variable, based on MVRD's estimated weighted internal rate of return. (this represents the rate of interest had the monies been invested rather than loaned to the MVHC). The estimated internal rate for 2022 is 1.70%.
Term	5 years
Annual Principal Payment	\$110,278

Earle Adams

Remaining Principal	\$1,546,268
Amortization Period	10 years, beginning June 1, 2017
Interest Rate	Variable, based on MVRD's estimated weighted internal rate of return. (this represents the rate of interest had the monies been invested rather than loaned to the MVHC). The estimated internal rate for 2022 is 1.70%.
Term	5 years
Annual Principal Payment	\$265,074.

Euclid Square

Remaining Principal	\$454,210
Amortization Period	10 years, beginning June 1, 2017
Interest Rate	Variable, based on MVRD's estimated weighted internal rate of return. (this represents the rate of interest had the monies been invested rather than loaned to the MVHC). The estimated internal rate for 2022 is 1.70%.
Term	5 years
Annual Principal Payment	\$77,865

The balance outstanding on the mortgages at renewal date of June 1, 2022 are:

Property	Address	Projected Mortgage Balance as at June 1, 2022
Semlin Terrace	100, 150, 200 Semlin Drive, Vancouver, BC	\$ 458,520
Grandview Gardens	2535 N. Grandview Hwy, Vancouver, BC	310,265
Kelly Court	2929 Nootka Street, Vancouver, BC	615,717
Earle Adams Village	7550 Northumberland Avenue, Vancouver, BC	1,479,999
Euclid Square	3485 Foster Avenue, Vancouver, BC	434,744
	Total	\$ 3,299,245

FINANCING OPTIONS

Financing renewal options are as follows:

1. MVRD Internal Financing - The MVRD can continue to provide MVHC with financing under its general corporate powers, under subsection 263(1)(c) of the *Local Government Act*, in that it "provides assistance for the purpose of benefiting the community or any aspect of the community". The form of security would be first mortgages under terms consistent with the current arrangement.

The mortgages would be fully paid off in five years, and would provide the MVHC with good interest rates and administrative flexibility. The mortgages would be registered on title with the Land Titles Office.

2. MFA Debenture Financing - MVHC cannot borrow directly from MFA, but could borrow through the conduit of MVRD, similar to GVWD and GVS&DD. The interest rate would be higher (current rate is 2.52%) and the security for MVRD is the same. However, there is limited flexibility with debenture debt to change terms, or pay off debt early.
3. Market Financing – traditional commercial mortgages could be obtained, however the up-front costs of this option are significant. Lenders require surveys, property appraisals and environmental and building assessments to be completed on each property. In addition, there are legal fees, possible mortgage insurance underwriting fees and an application fee. The application fee is estimated at 1% of each loan (\$25,000 total) with \$60,000 total estimated for the closing costs. The market rate for these first mortgages would likely be 0.75 - 1.25% higher than the MVRD rate.

ALTERNATIVES

1. That the MVRD:
 - a) approve continuing to provide first mortgage financing for the five MVHC properties. The mortgages will be for a five-year term, and will have a variable interest rate based upon Metro Vancouver's internal rate of return on investments; and
 - b) direct the Corporate Secretary to publish in the newspaper, pursuant to requirements of Section 272 of the Local Government Act, Metro Vancouver's intention to lend money to the MVHC
2. That the Metro Vancouver Housing Committee receive for information the report dated April 19, 2022, titled "Renewal of MVRD Internal Financing of MVHC mortgages" and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

The approval of Alternative one as presented will have no impact on the current financial position of the MVRD. As debt servicing costs in the 5-year financial plan were assuming a renewal of the current arrangement, there will be no impact on the MVHC's 5-year financial plan. Ensuring the lowest servicing costs for MVHC long-term debt, financial flexibility and the mitigation of current and future financial risk are objectives the *Financial Management Policy*. The approval of Alternative one is consistent with these objectives.

Should option two or three be selected and financing outside of MVRD be pursued there would be little direct financial impact on the MVRD; however, the MVHC may incur additional legal and administrative fees and likely pay higher interest rates. These additional costs could place additional pressure on the annual rents generated by these properties.

SUMMARY/ CONCLUSION

As presented under Alternative one, the approval of continuing to provide first mortgage financing for Semlin Terrace, Grandview Gardens, Kelly Court, Earle Adams and Euclid Square for a five-year term at a variable interest rate based on MVRD's estimated internal rate of return on investments, is recommended.

Financing through the MVRD presents little financial burden on the MVRD while providing the MVHC with financial savings in terms of lower legal and administrative fees as well as interest rates. The approval of alternative one is consistent with the objectives of the *Financial Management Policy*.

49485027

To: MVRD Board of Directors

From: Chris Plagnol, Corporate Officer, Board and Information Services

Date: May 16, 2022 Meeting Date: May 27, 2022

Subject: **Metro Vancouver External Agency Activities Status Report – May 2022**

RECOMMENDATION

That the MVRD Board receive for information reports from Metro Vancouver representatives to the following external organizations:

- a) Board of Trustees of the Sasamat Volunteer Fire Department;
- b) Delta Heritage Airpark;
- c) Fraser Basin Council, Lower Mainland Flood Management Strategy Leadership Committee;
- d) Katzie Treaty Negotiation Table;
- e) Lower Mainland Local Government Association;
- f) Municipal Finance Authority of BC;
- g) Ocean Watch Action Committee;
- h) Pacific Parklands Foundation;
- i) Union of British Columbia Municipalities (UBCM);
- j) Western Transportation Advisory Council; and
- k) Zero Emission Innovation Centre Board of Directors;

as provided in the report dated May 16, 2022, titled “Metro Vancouver External Agency Activities Status Report – May 2022”.

EXECUTIVE SUMMARY

During this period, activities from the various external agencies are summarized.

PURPOSE

To update the Board on the recent activities of external agencies to which representatives have been appointed.

BACKGROUND

Each year the Board appoints representatives to various external organizations. In accordance with the Board’s External Agency Appointee Reporting Requirements policy, appointees are required to provide the Board semi-annually (May and October) with written summaries of key current and planned activities on the external agency to which they have been appointed.

Reports outlining the recent activities of the various external agencies are attached for the Board’s information.

Attachments

- A. “External Agency Status Report for the Board of Trustees of the Sasamat Volunteer Fire Department”, dated April 27, 2022;

- B. “External Agency Status Report for the Delta Heritage Airpark”, dated April 27, 2022;
- C. “External Agency Status Report for Fraser Basin Council Society, Lower Mainland Flood Management Strategy Leadership Committee”, dated May 18, 2022;
- D. “External Agency Status Report for the Katzie Treaty Negotiation Table”, dated May 2, 2022;
- E. “External Agency Status Report for the Lower Mainland Local Government Association”, dated May 14, 2022;
- F. “External Agency Status Report for the Municipal Finance Authority of BC”, dated May 13, 2022;
- G. “External Agency Status Report for the Ocean Watch Action Committee”, dated May 4, 2022;
- H. “External Agency Status Report for the Pacific Parklands Foundation”, dated May 1, 2022;
- I. “External Agency Status Report for the Union of British Columbia Municipalities (UBCM)”, dated May 11, 2022; and
- J. “External Agency Status Report for the Western Transportation Advisory Council”, dated May 12, 2022; and
- K. “External Agency Status Report for the Zero Emission Innovation Centre Board of Directors”, dated May 11, 2022.

To: MVRD Board of Directors

From: Darrell Penner, Alternate Director

Date: April 27, 2022 Meeting Dates: May 27, 2022

Subject: **External Agency Status Report for Sasamat Volunteer Fire Department Board of Trustees**

RECOMMENDATION

That the MVRD Board receive for information the report dated April 27, 2022, titled “External Agency Status Report for Sasamat Volunteer Fire Department”.

PURPOSE

To report to the Board of Directors on the activities of the Sasamat Volunteer Fire Department.

BACKGROUND

Board policy requires the reporting of activities twice annually in May and October.

KEY ACTIVITIES

The Board of Trustees reviewed the 2021 year-end financials for the SVFD service, note this is the second close to the financials and minor adjustments will take place at the final close. On a budget with total expenditures of \$849,140, the function was under budget by \$632,421, or 74%. This was primarily due to a deferment of the Engine 3 replacement.

The Board of Trustees accompanied Mayor McEwen on a tour of Bowen Island Fire Halls on April 21, 2022.

The Sasamat Fire Protection Service is a Metro Vancouver Regional District (MVRD) function that includes the Villages of Anmore and Belcarra. The service has two fire halls and five trucks, staffed by approximately 40 trained volunteers. In addition to providing emergency response services, the Sasamat Fire Protection Service issues burning permits for both municipalities, and fire inspection services to the Village of Anmore and Belcarra.

The Sasamat Fire Protection Service initiatives planned over the next five years are guided by direction provided in the Board Strategic Plan, specifically:

- Continue to engage with members on processes and initiatives that contribute to an effective and well functioning organization

Sasamat Fire Protection Service

- Build resilience in communities to prepare for and adapt to changing physical and environmental conditions
- Develop and implement financial plans and policies that reflect a commitment to sound financial management and long-term planning, in consideration of current and future ratepayers
- Enhance relationships between Metro Vancouver and other orders of government, First Nations, adjacent regional districts, and key stakeholders.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

There are no unplanned/unbudgeted financial implications associated with these activities to-date.

SUMMARY / CONCLUSION

The Sasamat Fire Department Board of Trustees continues to oversee the planning, budgeting, and operation of the fire department through regular meetings and ongoing communication with the Fire Chief and Metro Vancouver SSEM staff.

To: MVRD Board of Directors

From: Councillor Lois E. Jackson, Metro Vancouver Appointed Representative

Date: April 27, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for the Delta Heritage Air Park Management Committee**

RECOMMENDATION

That the MVRD Board receive for information the report dated April 27, 2022, titled "External Agency Status Report for the Delta Heritage Air Park Management Committee".

EXECUTIVE SUMMARY

This report provides a summary of activities of projects at the Delta Heritage Air Park by the Recreational Aircraft Association (RAA) Chapter 85. The Association operates the Air Park for its members and for the enjoyment of the general public. This report provides an update on the past six months of operations at the Delta Heritage Air Park.

PURPOSE

To provide the MVRD Board with an update on the activities of the Delta Heritage Air Park Management Committee.

BACKGROUND

Delta Heritage Air Park (DHAP) is owned by Metro Vancouver and operated by Recreational Aircraft Association Chapter 85 by way of a License Agreement. The License Agreement defines a Management Committee membership comprising of representatives from Air Park Neighbours, Province of British Columbia, nonprofit organizations, Recreational Aircraft Association, Metro Vancouver staff and staff from the City of Delta. The Management Committee formulates operation rules governing the Air Park and advises Metro Vancouver on policy matters. The Committee meets a minimum of two times per year.

MANAGEMENT COMMITTEE MEETING

The Fall 2021 Delta Heritage Air Park Management Committee meeting was held on October 21, 2021 and conducted via videoconference. At the meeting the Committee reviewed the financial reserve statement, and they received for information the DHAP Capital Project Plan Update or Changes, Flight Incidents, RAA Chapter 85 Events Update, DHAP Operating Update, DHAP Activities Update and adopted the Wildlife Management Plan.

DELTA HERITAGE AIR PARK OPERATIONS**Flying Activities**

The Flight Monitoring Sub-Committee Reports on various incidents related to flight safety issues at the Air Park to ensure compliance with federal regulations. A seizure and sale of an aircraft was

executed by RAA to remove a derelict aircraft from the air field that failed to pay rent over a number of months.

Activities Update

Activities were curtailed at the Air Park due to the COVID-19 pandemic; however, tenants of the Air Park were still permitted to fly and work on their aircraft within their hangers. Mary's Place, which is an onsite café, served the first pancake breakfast since the beginning of the pandemic. There were approximately 50 visitors present. In April 2022 the RAA Chapter 85 held its first onsite meeting since the pandemic started. On Saturdays the Air Park parking lot is used by BC Auto Club.

Improvements to Delta Heritage Air Park

The first phase of the hedgerow project was completed on the north side of the east west ditch. Volunteers planted 400 plants. A grant from the Pacific Parkland Foundation was received to provide funding for a second hedgerow phase of planting that will begin soon. This is a cooperative environmental project with Metro Vancouver Regional Parks. Other improvements included installing a heater installed by volunteers in the tractor shed.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

There are no financial implications.

CONCLUSION

This report provides a summary of activities of the Delta Heritage Air Park Management Committee and the Recreational Aircraft Association (RAA) Chapter 85 for the past six months. The Management Committee meets a minimum of twice per year. The next management committee meeting is scheduled Thursday, May 26, 2022. At this meeting the Committee will review the financial reserve statement, the 5-year Capital Plan, the activities and operating updates, as well as other regular business items.

To: MVRD Board of Directors

From: Sav Dhaliwal, MVRD Chair
David Hocking, MVRD Director
Craig Hodge, MVRD Director

Date: May 18, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for Lower Mainland Flood Management Strategy Leadership Committee**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 18, 2022, titled “External Agency Status Report for Lower Mainland Flood Management Strategy Leadership Committee”.

EXECUTIVE SUMMARY

The Lower Mainland Flood Management Strategy Leadership Committee provides guidance and direction for the development of the Lower Mainland Flood Management Strategy (LMFMS) and the engagement with stakeholders and First Nations. Since the October 2021 update, the Leadership Committee met twice to focus on the scope and process for priorities under the LMFMS, First Nations participation and engagement, and funding and decision-making options for implementation of the LMFMS. In addition, Chair Dhaliwal created the Metro Vancouver Flood Resiliency Task Force to provide advice and recommendations to the Metro Vancouver Board and to the Board members appointed to the Leadership Committee of the Lower Mainland Flood Management Strategy on issues related to flood resiliency.

PURPOSE

To provide the Board with an update on the Lower Mainland Flood Management Strategy Leadership Committee

BACKGROUND

The Fraser Basin Council is facilitating the development of the Lower Mainland Flood Management Strategy (LMFMS), which is aimed at reducing flood risk and improving the flood resilience of communities along BC's lower Fraser River and south coast. The LMFMS is a collaborative initiative involving lower mainland organizations that have responsibilities or interests related to flood management and include the Government of Canada, the Province of British Columbia, Lower Mainland local and regional governments, First Nations governments, and non-governmental and private sector entities in the region.

Chair Dhaliwal, Director Hocking and Director Hodge are appointed by the MVRD Board to serve on the LMFMS Leadership Committee to provide regional input to the Leadership Committee and periodically report back to the MVRD Board.

Since the last update to the Board, the Leadership Committee met on November, 8, 2021 and February 7, 2022. The Local Government Caucus (Leadership Committee members representing local governments in the MVRD and Fraser Valley Regional District) met on December 9, 2021. The focus of the Leadership Committee has been on the scope and process for priorities under the strategy, First Nations participation and engagement, and funding and decision-making options for implementation of the strategy.

In addition, Chair Dhaliwal created the Metro Vancouver Flood Resiliency Task Force to provide advice and recommendations to the Metro Vancouver Board and to the Board members appointed to the Leadership Committee of the Lower Mainland Flood Management Strategy on issues related to flood resiliency.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

There are no financial implications associated with receiving this report for information. Metro Vancouver provides the Fraser Basin Council with \$300,000 per year under an agreement approved by the Board. This contribution supports a diversity of FBC projects and activities of direct relevance to Metro Vancouver, including the LMFMS. Significant additional resources are leveraged.

As seen by the catastrophic floods experienced in the province in late 2021, including the impacts to the lower mainland, the costs of the damage and disruption of the flooding far outweigh the costs associated with flood mitigation. An effective and coordinated flood management strategy for the lower mainland can mitigate or prevent the impacts of expected future flooding. The governance and the costs of strategy implementation are still being developed and the federal and provincial governments will be expected to contribute substantial funding to fulfil their mandates.

CONCLUSION

The Fraser Basin Council is facilitating the development of the Lower Mainland Flood Management Strategy (LMFMS) aimed at reducing flood risk and improving the flood resilience of communities along BC's lower Fraser River and south coast. Chair Dhaliwal, Director Hocking and Director Hodge are appointed by the MVRD Board to serve on the LMFMS Leadership Committee. Since the October 2021 update, the focus of the LMFMS Leadership Committee has been on the scope and process for priorities under the LMFMS, First Nations participation and engagement, and funding and decision-making options for implementation of the LMFMS. Metro Vancouver also created the Flood Resiliency Task Force to provide advice and recommendations to the Metro Vancouver Board and to the Board members appointed to the Leadership Committee of the Lower Mainland Flood Management Strategy on issues related to flood resiliency.

References

Lower Mainland Flood Management Strategy - <https://floodwise.ca/flood-strategy/>

To: Indigenous Relations Committee

From: Councillor Steve Ferguson, Township of Langley

Date: May 2, 2022 Meeting Date: May 11, 2022

Subject: **External Agency Status Report for the Katzie Treaty Negotiation Table**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 2, 2022, titled “External Agency Status Report for the Katzie Treaty Negotiation Table.”

EXECUTIVE SUMMARY

This information report provides an overview of the Katzie treaty table negotiation efforts over the past six months including: background on Katzie First Nation, information on the First Nation’s Statement of Intent area, the status of negotiations, and the roles and responsibilities of the local government representative sitting at the treaty table.

PURPOSE

To provide the MVRD Board with a status report from the appointed local government representative at the Katzie treaty negotiations table.

BACKGROUND

As a representative appointed by Metro Vancouver to various external organizations, under Board policy, a report is to be provided to the Board of Directors on the activities of the external agency, twice annually in May and in October.

The *Memorandum of Understanding between the Union of British Columbia Municipalities and the Ministry of Indigenous Relations and Reconciliation*, renewed on September 14, 2021 at the Union of BC Municipalities Convention, includes a process for local government participation in the negotiation and implementation of treaties. Local government representatives have a seat at the Katzie treaty table as part of the provincial negotiation team.

KATZIE TREATY NEGOTIATION TABLE

Katzie First Nation, with a current total population of 629 members, has five Indian Reserves in four different local government jurisdictions: Pitt Meadows, Township of Langley, Maple Ridge, and two within Metro Vancouver’s Electoral Area A.

Katzie has been operating under a Land Code since 2017. A Land Code is a comprehensive law created by a First Nation to replace 44 sections of the *Indian Act* that relate to land management.

Since 2005, Katzie has also entered into a number of Forest and Range Consultation and Revenue Sharing [agreements](#) with the provincial government.

Katzie has been involved at the treaty negotiation table since 1994. Its Statement of Intent area (equivalent to the First Nation's traditional territory) envelopes the following local government jurisdictions: Burnaby, Coquitlam, Delta, City of Langley, Township of Langley, Maple Ridge, Metro Vancouver's Electoral Area A, New Westminster, Pitt Meadows, Port Coquitlam, Richmond, Surrey, and White Rock (Attachment 1).

UPDATE ON TREATY TABLE ACTIVITIES

The Katzie treaty table is in Stage 4 of the six-stage BC Treaty Process (Agreement-in-Principle stage). Katzie is pursuing a new approach to self-government that focuses on the needs and priorities of the Nation. This new process, called incremental self-government, is being outlined in a Memorandum of Understanding (MOU) negotiated between Katzie, BC, and Canada.

Katzie First Nation's new approach to treaty negotiations focuses on key principles such as:

- negotiations are based on the recognition of Indigenous title and rights;
- support for Indigenous self-government;
- treaties and agreements seen as flexible and living partnerships and as mechanisms to implement the United Nations Declaration on the Rights of Indigenous Peoples.

Tripartite negotiations have taken place on a monthly basis over the past six months. Katzie treaty negotiation meetings are held in-camera. As per the 2021 Memorandum of Understanding between Union of BC Municipalities and the Province, negotiation updates can only be shared in-camera by the local government representative. However, for the purposes of this report, the following information can be shared publicly as it was released by the BC Treaty Commission as part of its 2021 Annual Report.

The First Nation's leadership team, including Council members, senior management, and treaty negotiators, is also working to reinvigorate engagement efforts with Katzie community members. Katzie First Nation has also enhanced community engagement efforts, including a new digital engagement platform and is currently working on an updated Membership Code.

In addition, Treaty Related Measures funding continues to support governance planning and research on fisheries interests. Treaty Related Measures are designed to resolve matters on an interim basis and to facilitate treaty negotiations. Treaty Related Measures projects are funded by Canada.

Treaty negotiations at this table are expected to continue at the current pace in 2022.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

As this is an information report, there are no financial implications.

CONCLUSION

Katzie First Nation has been involved in treaty negotiations since 1994. Currently, in Stage 4 of the six-stage treaty process, the table is meeting on a regular monthly basis. The focus of negotiations has been on the exploration of options to recognize and protect Katzie's inherent title and rights. Katzie is pursuing an Incremental Treaty Agreement with the governments of Canada and BC. The First Nation's leadership team, including Council members, senior management, and treaty negotiators, is also working to reinvigorate engagement efforts with Katzie community members.

Attachments

1. Statement of Intent Area Map: Traditional Territory Boundary, Katzie Indian Band.
2. The Roles and Responsibilities of Table Representatives.

References

Memorandum of Understanding (MOU) between the Union of British Columbia Municipalities and the Ministry of Indigenous Relations and Reconciliation can be found here:

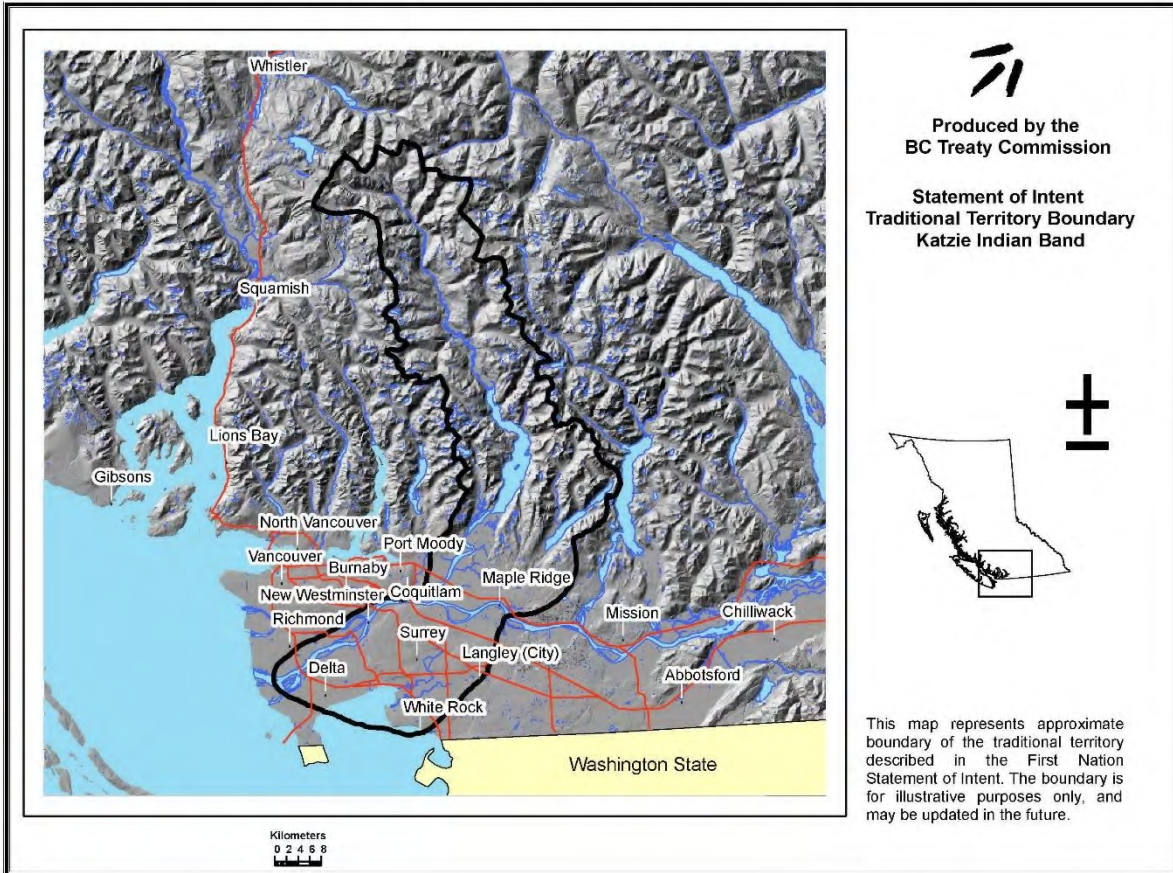
<https://www.ubcm.ca/sites/default/files/2021-09/mirr - ubcm mou 2021 - signed.pdf>

2021 Annual Report from the BC Treaty Commission can be found here:

[BCTC Annual Report 2021.pdf \(bctreaty.ca\)](https://www.bctreaty.ca/BCTC_Annual_Report_2021.pdf)

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Attachment 1



The Roles and Responsibilities of Treaty Table Representatives

Provide information to the Indigenous Relations Committee from the Treaty Table

1. Attend Metro Vancouver's Indigenous Relations Committee meetings, engage in discussion, and record outcomes.
2. Provide regular verbal information reports on table activities.
3. Provide advice and commentary on emerging issues.
4. Complete and circulate issue tracking reports.
5. Provide regular written information reports and related documentation for circulation to the Indigenous Relations Committee.
6. Regularly forward original table documentation to keep the master record updated.
7. Forward technical and other information requests from the treaty table to the Indigenous Relations Committee for action.
8. Develop a personal information records system for table specific documentation.
9. Adhere to all confidentiality requirements.

Provide information from the Indigenous Relations Committee to the Treaty Table (via BC negotiators)

1. Attend table meetings, engage in discussion, and record outcomes.
2. Keep informed on treaty issues and Indigenous relations.
3. Represent member local government interests.
4. Provide advice and commentary from a community perspective on issues impacting local government interests.
5. Report back on technical and other information requested by the treaty table.
6. Develop a personal information records system for table specific documentation.

To: MVRD Board of Directors

From: Mayor Rob Vagramov

Date: May 14 2021 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for the Lower Mainland LGA**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 14 2021 titled “External Agency Status Report for the Lower Mainland LGA”.

PURPOSE

To provide an update to the Metro Vancouver Regional District Board with an update on the activity of our Local Area Association.

LOWER MAINLAND LGA UPDATE

The Lower Mainland LGA Board has been active since October 2021, planning for its first in-person convention since the COVID-19 pandemic began.

In November 2021, the Board received an update and debrief on the LGA’s CivX event. Curiously, while the LGA saw just over 200 registrants for the event, none of the days broke 100 participants at any one time. This was likely due to the remote nature of the event, combined with the focus on flooding across the region and province. The Board directed the development of an Honorarium/Stipend Policy for future speakers and contributors, and decided that the Whistler Health Care Foundation will be the charity for the 2022 conference. A number of conference themes and potential session topics were discussed. The importance of having an Integrity Commissioner in place and decided that the LGA would advocate on this issue. [L]
[SEP]

January 2022 saw the Board decide on a conference theme: Resilient Communities / Stronger Region. Several panel topics were discussed and a subcommittee for conference planning was formed. Given the decision to hold the convention in-person, the Board decided to follow the most current provincial public health orders at the time of the conference, including vaccine and/or mask requirements. KPMG was selected for 2022 and 2023 financial review. Several Board members agreed to meet regarding potential LGA help for Fraser Valley flood recovery.

February’s meeting included a presentation from the Municipal Natural Assets Initiative. The Board reviewed the draft program to date, discussed potential conference entertainment providers, and reviewed further panel topics. The sudden departure of Port Coquitlam as an LGA member was discussed. The Board received 2021’s draft financials, and the three regional representatives were reappointed.

The March meeting was light, consisting primarily of a presentation by Emergency Management BC, an update on conference registrations to-date, and conference budget. The Board also approved a renewal of the Executive Director contract.

While the April meeting was extensive, its notes are limited, as most of the meeting was spent reviewing resolutions. The draft budget for 2022 was updated, and final conference details were updated and confirmed.

May was the month of the LGA conference. Due to the required timing of this report, details from the AGM and Conference will be highlighted in the following update, in October 2022.

To: MVRD Board of Directors

From: Malcolm Brodie, Mary-Ann Booth, Linda Buchanan, Jonathan Cote, Sav Dhaliwal, Jack Froese, George Harvie, Mike Hurley, Richard Stewart, Brad West

Date: May 13, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for Municipal Finance Authority of BC**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 13, 2022, titled “External Agency Status Report for Municipal Finance Authority of BC”.

GOVERNANCE

Board of Trustee Meetings

The Board of Trustees met with management 5 times during the period of October 1, 2021 to May 1, 2022 to review operating performance, access to the financial markets, administration, and other miscellaneous items.

In addition, the Board of Trustees held several meetings of the Investment Advisory Committee which provides oversight for Pooled Investment Funds, and Trustees and management made presentations on behalf of the MFA at various local government conferences.

2021 IN REVIEW AND LOOKING FORWARD

Meetings of the Members were held on September 13, 2021 (Semi-Annual Meeting) and March 24, 2022 (Annual General Meeting).

From a **staffing perspective**, we have recently filled the position of Manager, Client Services. Nicole Gervais started on March 16th and will be supporting the Client Services team and Chief Services Officer, Shelley Hahn. Nicole has 20 years of experience in Client Service in areas of banking and commercial credit with Coast Capital Savings. Shannon Cottrell, Senior Client Support Specialist has left the MFA to pursue other opportunities and MFA has begun the process to hire an Associate, Client Services to support Nicole’s role.

Results from operations have been very strong, and **borrowing activities and lending to Members** has continued unabated throughout the continuing Covid crisis.

RESULTS

Results from Operations – Year Ending December 31, 2021

The results for the year show a combined income from core operations of \$6.5 million, \$1.38 million unfavourable to budget (\$1.52 million favourable if the unrealized fair value loss on the Short-term Debt Fund and the Strategic Retention Fund investment portfolio assets are excluded). Core operating revenues were favourable by \$242,641, which is attributed to Financial Service Fees earned from pooled investment funds being higher than expected. Primary operating expenditures were

under budget by \$343,329 with savings mainly attributed to lower office costs and less traveling by staff due to the COVID-19 pandemic. The Strategic Retention Fund ended the year at \$102.0 million, a \$6.5 million increase from 2020. The Strategic Retention Fund and the Debt Reserve Fund form the organization's capital base which supports our AAA ratings which is in accordance with our Capital Adequacy Policy adopted by the Board of Trustees in September 2019.

Asset and Investment Management

Assets under management were \$10.5 billion at the end of 2021. Assets comprise MFA's loans to clients of \$5.4 billion, representing 1,587 outstanding long-term requests for financing through 28 regional districts and three other entities. MFA's short-term loans outstanding of \$183 million represented 94 short-term loans for financing and 364 equipment financing arrangements. Included in MFA's assets are investments of \$4.4 billion managed internally. Of these investments, \$4.2 billion are held as sinking funds which reflect payments collected from clients and invested for the future retirement of debenture obligations. MFA also manages a Debt Reserve Fund, with investments valued at \$123 million, and a Retention Fund, containing investments valued at \$102 million at the end of the year.

Results from Operations – First Quarter 2022

The results for the quarter ending March 31, 2022, show a net contribution from core operations of \$813,123 which was favourable to budget by \$99,443. Revenues were unfavourable by \$36,045 which is primarily attributed to Financial Service Fees from pooled investment funds being slightly lower than expected. Expenditures were favourable by \$135,488 which is mainly attributed to: timing differences related to funds being requested for sponsorships and external education, lower legal and consulting costs billed to date, and below budget financial forum costs.

BORROWING AND LENDING

Triple A Credit Ratings

MFA's AAA credit ratings are the best attainable and allow MFA to access capital in the markets at the most favorable interest rates. On April 20 and 21, 2022, MFA presented the annual credit update virtually by video conference to the credit rating agencies (Moody's, Standard & Poor's (S&P), and Fitch Ratings).

The conversations were constructive and very positive overall. Questions focused on local government health post the pandemic, housing affordability, the DMAC Fund, fire and flood recovery, refinancing risk, and capital adequacy. The agencies all appear comfortable with the MFA's AAA ratings. Fitch has now confirmed the MFA's AAA ratings and expects confirmation of ratings from Moody's and S&P over the coming weeks.

Borrowing in the Capital Markets and Long-term Lending

We issued \$1,995 million of **long-term bonds** in 2021 – overall a net increase in debt of about \$749 million from 2020, due to a higher funding requirement for new loans to Members and refinancing requirements that were higher than maturing market debt. MFA issued / reopened five debentures with borrowing rates of between 1.373% to 2.507% which, of course, still remain low by historical standards. Throughout 2021, MFA continued to access the lowest long-term rates in Canada when compared to its Municipal peers. This borrowing program refinanced maturing debt, underpinning both existing client loans as well as 79 new loans aggregating roughly \$1,084 million to MFA clients.

New Long-Term Loans – 2021 Full Year		
Size	Number	Aggregate Amount (\$)
Less than \$1 million	28	\$11,431,608
Between 1 & 5 million	29	67,806,596
Between 5 & 10 million	5	35,000,000
Between 10 & 15 million	5	59,579,192
Above \$15 million...	1	15,000,000
	1	20,000,000
	1	20,000,000
	1	20,600,000
	1	35,000,000
	1	40,000,000
	1	84,090,909
	1	90,000,000
	1	100,000,000
	1	104,000,000
	1	116,000,000
	1	266,000,000
Total	79	\$1,084,508,305

Note: Figures are gross of expected credit loss provisions

Long-term Debt Extension Strategy

The funds for long-term loans provided to Members are raised in the global bond markets. MFA is continuing to work with Members to measure the advantages and look for opportunities to issue longer-dated bonds (20-years or 30-years vs 10-years). This strategy is aimed at dealing with a “crowding” of MFA market debt in the front-end of the market and to allow MFA to comfortably grow its market issuance in a cost-effective fashion over the coming decade - as infrastructure needs will be growing substantially in the BC Local Government system.

In order to be able to issue 20-year bonds clients must choose amortization periods of 20-years or longer. In October of 2021, MFA issued a \$350 million 20-year debenture which was the first such issuance in many years. MFA clients were canvassed and given the option before we proceeded with this 20-year debenture in place of the traditional 10-year offering.

New loans to MFA Members have historically been funded by first issuing a 10-year debenture to the market, thereby locking-in a fixed interest rate for MFA (and the Member) for the first ten years. Members select their amortization term and may borrow for up to thirty years. Loans longer than ten years are typically refinanced every five years by MFA following the initial ten-year period.

New loan growth is set to increase over the coming years, with plans for several large hospital projects, general aging of local government infrastructure, as well as Metro Vancouver Regional District’s significant multi-year water and sewer capital plan. Opportunistically lengthening MFA’s debenture term can help ensure the continued success (low cost and reliable) of MFA’s new debenture issuance programs which is the only source of funding for MFA loans to Members.

Commercial Paper Issuance and Short-term Lending

At the end of 2021, MFA had \$500 million in commercial paper outstanding to support MFA’s current and expected growth in short-term lending. MFA issued \$3.9 billion in commercial paper throughout the year in weekly auctions. Short-term loans are refinanced weekly, allowing for flexibility and efficiency for clients. This program is primarily used to provide interim financing for capital projects during construction and lending for MFA’s equipment financing program. In 2021, new advances to clients totaled \$270.6 million. At the end of December, MFA had 458 loans outstanding aggregating \$182.3 million.

The Commercial Paper Program continues to provide low-cost short-term and equipment financing to clients. The MFA’s short-term lending rate is currently 1.40%.

In 2022, Metro Vancouver Regional District will join the short-term lending program, in turn MFA will start in June to increase commercial paper outstanding to \$675 million by the end of the year to support this increased lending activity.

Pooled Investment Funds

One Year Performance and Current Yields of the Funds as of March 31, 2022:

Fund	Money Market	Government Focused	Bond Fund	FFF Bond Fund	Mortgage Fund	DMAC
Market value (millions)	\$1,197	\$308	\$692	\$155	\$139	\$357
1-year return*	0.19%	-0.64%	-2.88%	-3.02%	-1.19%	N/A
Benchmark*	-0.01%	-0.54%	-3.51%	-3.51%	-3.56%	N/A
Current Yield**	1.00%	2.46%	3.10%	3.07%	4.00%	\$4.56%

*Portfolio and benchmark performance is net of total fees and expenses of 12.5 basis points per annum (Money Market Fund and Government Focused Ultra-Short Bond Fund), 20 basis points per annum (Bond Fund and Fossil Fuel Free Short-term Bond Fund), and 25 basis points per annum (Mortgage Fund), and 33 basis points per annum (DMAC Fund). ** Current Yield is calculated as the market weighted sum of the current yields in each portfolio. As of April 28, 2022, \$Only covers the fixed income portion of the DMAC Portfolio.

The MFA completed its work and successfully launched its new Diversified Multi-Asset Class Fund (“DMAC”) on January 17th. The DMAC is suitable for BC local government long-term reserves (not needed for 10 years or longer). We took in 2 subscriptions (Burnaby \$350 ml and CRD \$15 ml) totaling \$365 million. Staff continue to work with other local governments as they complete the entrance requirements.

ESG (ENVIRONMENT, SOCIAL & GOVERNANCE) DISCLOSURES

Investment activities that take into account ESG factors have been a topic of growing interest to many investors around the world. In fact, it has become a topic of much interest to many local government investors in BC.

The ESG landscape is quite complex and continues to evolve at a rapid pace without much clarity or agreement on best practices. In this fast evolving and undefined landscape, “greenwashing”, or untruthful marketing of the environmental benefits of a given investment, is rampant. The MFA urges Members to be suspect of the marketing campaigns employed by financial institutions and brokers selling “green” products. Local government finance staff are quite diligent at carefully analyzing investments, but the MFA is seeing a rising pressure from brokers or even council members in considering inferior investments that have limited ESG merit.

The biggest hurdle to ESG investing by investors is a lack of standardized reporting by companies or other organizations, such as the MFA, raising money in the public capital markets. For responsible investing to be of value, one must have comparable data. North American entities have been laggards in producing ESG disclosures over the last decade or so, while corporations and public sector entities in Europe are far ahead. Government entities similar to the MFA (infrastructure banks) as well as federal and regional governments in Europe have been making these disclosures for a long time now. This is one of the reasons the MFA, which competes for global capital with these entities, will also start disclosing what it can and refine those disclosures over time.

2022 BUSINESS PLAN

Over the last 5 years, the MFA has been on a transformational journey as we modernize and add even greater value for clients.

- Increasing education and sponsorship support as the third pillar of services we offer
- Building resilience by strategically adding additional team members while increasing and formalizing cross-training
- Implementing new tools and processes in financial management systems to reduce risk and manual effort
- Launching new investment products to meet evolving client needs and market changes
- Updating technology systems and increasing cybersecurity through cloud-based solutions

The 2022 business plan is driven by 5 key strategic focus areas:

- ❖ **STAKEHOLDER ENGAGEMENT** - Increase connectivity with MFA stakeholders through collaboration, communication, and education to better understand their needs, add value, and enhance MFA's reputation as a trusted partner and a thought leader on finance-related issues
- ❖ **RESILIENCE & CAPACITY**– Ensure stability of the organization and its ability to serve stakeholders at all times while responding to external events that may impact business
- ❖ **PROFESSIONAL FINANCIAL MANAGEMENT** - Enhance MFA's own professional practices in finance and accounting for improved efficiency, reduction of manual effort, and increased transparency
- ❖ **PROGRAM DEVELOPMENT & IMPROVEMENT** - Ensure MFA products suite offers the best options for clients through active collaboration and continuous development
- ❖ **TECHNOLOGY SUPPORT & SECURITY** – Continuous enhancement of MFA's technology systems and practices to reduce risks and add business value

SPONSORSHIP & EDUCATION SUPPORT

The MFA is a major, non-commercial supporter of BC's local government elected official and staff events and conferences each year. The MFA primarily supports financial education, in direct line with its mandate. The MFA also supports training in management, leadership, and cybersecurity, which has become a major operational and financial issue in the Local Government sector globally. The total education and sponsorship contribution for 2021 was \$148,000, while the budget for 2022 is \$233,000.

The MFA remains committed to the provision of education focused on finance and business best practices for clients and refer to this as the 'third pillar' alongside MFA's lending and investment programs. This practice builds financial and operational strength for clients and expands and benefits the MFA's reputation as being part of the local government system as opposed to a 'commercial' service provider. This is a keyway the MFA differentiates itself from for-profit competitors and demonstrates its value for BC local governments.

To: MVRD Board of Directors

From: Jen McCutcheon, Director, Electoral Area A

Date: May 4, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for Ocean Watch Action Committee**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 4, 2022, titled “External Agency Status Report for Ocean Watch Action Committee”.

EXECUTIVE SUMMARY

At its January 28, 2022 meeting, the MVRD Board appointed Electoral Area A Director Jen McCutcheon as the Metro Vancouver representative to the Ocean Watch Action Committee for 2022. The Ocean Watch Action Committee brings together local elected officials and others to advance actions identified in the Ocean Wise Report - Ocean Watch Átl'ka7tsem/Txwnéwu7ts/Howe Sound Edition 2020 (Reference 1). Metro Vancouver is the local government for Electoral Area A, portions of which are located in the Howe Sound region.

PURPOSE

This report provides the MVRD Board with a status report related to the Ocean Watch Committee.

BACKGROUND

At its January 28, 2022 meeting, the MVRD Board appointed Electoral Area A Director Jen McCutcheon as the Metro Vancouver representative to the Ocean Watch Action Committee for 2022. To date in 2022, two meetings of the Ocean Watch Committee have been held, highlights of which are provided in this report.

OCEAN WATCH ACTION COMMITTEE

The Ocean Watch Action Committee brings together elected officials, government staff, and advisors to advance government actions identified by the Ocean Wise Report - Ocean Watch Átl'ka7tsem/Txwnéwu7ts/Howe Sound Edition 2020 (Reference 1).

The report highlights seven key action areas:

1. **Research:** Increase knowledge of the local area and species through research.
2. **Protect and Restore:** Protect and restore marine species, habitats and ecosystem services.
3. **Educate and Engage:** Increase awareness and education and ensure consistent messaging on environmental issues.
4. **Legislation:** Drive high-level change using official channels (e.g., guideline, policy, bylaw) appropriate to the circumstances.
5. **Funding:** Financially support conservation actions and ensure stricter enforcement.
6. **Monitor:** Collect long-term data to identify trends, support decision making, and evaluate the outcome of actions taken.

7. **Greenhouse Gas Reductions:** Decrease greenhouse gas emissions and move towards zero carbon municipalities to align with recommended reductions in global greenhouse gas emissions.

The Ocean Watch Action Committee seeks to advance those actions and keep track of progress. The Howe Sound Biosphere Region Initiative Society is the coordinator and convener of this Committee.

January 14, 2022 Meeting (Reference 2)

The Ocean Watch Committee met virtually on January 14, 2022. Key highlights of the meeting include:

- Updates from local governments and other stakeholders on recent actions taken that support the seven key action areas.
- Presentation on the Town of Gibsons' Healthy Harbour Project
- Succession update for the Marine Reference Guide (now called the Marine Stewardship Initiative)
- Discussion regarding the Howe Sound Biosphere Region Initiative's Management Planning

March 25, 2022 Meeting (Reference 3)

The Ocean Watch Committee met virtually on March 25, 2022. Key highlights of the meeting include:

- Updates from local governments and other stakeholders on recent actions taken that support the seven key action areas.
- Presentation on the European Green Crab invasion and monitoring in Howe Sound
- Update from DFO on the Glass Sponge Reef closures and next steps
- Update on initial work on the Nchu'ú7mut/Unity Plan

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

If there are no financial implications, make a comment to that effect. Do not put N/A.

CONCLUSION

The ongoing work of the Ocean Watch Action Committee broadly aligns with Metro Vancouver's environmental, climate change, and reconciliation goals. Local governments from around Howe Sound, including three MVRD member municipalities (Bowen Island Municipality, the Village of Lions Bay, and District of West Vancouver) actively participate in this ongoing work, have appointed representatives to the Ocean Watch Action Committee. Metro Vancouver's role as the local government for Electoral Area A, a portion of which is located in Howe Sound, is one of the main reasons why there has been long-standing participation from the Electoral Area A Director and Electoral Area Services staff in Howe Sound initiatives such as the Ocean Watch Action Committee.

References

1. [Ocean Wise Report - Ocean Watch Átl'ka7tsem/Txwnéwu7ts/Howe Sound Edition \(2020\)](#)
2. [January 14, 2022 Meeting Notes of the Ocean Watch Action Committee](#)
3. [March 25, 2022 Meeting Notes of the Ocean Watch Action Committee](#)

To: MVRD Board of Directors

From: Director John McEwen and Director Ron McLaughlin

Date: May 1, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for Pacific Parklands Foundation – Update from October 1, 2021 to May 1, 2022**

RECOMMENDATION

That MVRD Board receive for information the report dated May 1, 2022: “External Agency Status Report for Pacific Parklands Foundation – Update from October 1, 2021 to May 1, 2022”.

EXECUTIVE SUMMARY

Reports on two regular meetings and an AGM held by Pacific Parklands Foundation over a six- month period are provided. Changes in staff and volunteer positions are shared. The Foundation’s general operations are described.

PURPOSE

To provide the MVRD Board with an update on Pacific Parklands Foundation activities and highlights for the period May 1, 2021 to October 1, 2022.

BACKGROUND

Formed in 2000, Pacific Parklands Foundation is a registered charity with a mission to support Metro Vancouver Regional Parks with a goal to conserve, preserve and enhance Metro Vancouver’s Regional Parks system. The Foundation raises funds to help augment government funding for special projects and programs in Metro Vancouver’s regional parks.

An independent board of volunteer directors meets a minimum of four times per year to oversee the management and operation of the Foundation. Since 2007, the Pacific Parklands Foundation has received annual contribution funding from Metro Vancouver.

In addition, the Foundation ensures that it remains both a society and a registered charity in good standing. Its fiscal year runs from October 1 to September 30, and each year its financial statements are audited. Pacific Parklands Foundation strives to provide a strong return on investment to Metro Vancouver and through its contribution funding, is able to ensure that donations received are directed to the projects and programs it supports.

HIGHLIGHTS

On November 16, 2022 and February 10, 2022 regular meetings of Pacific Parklands Foundation board were held and updates were provided regarding the Foundation progress on the strategic plan, ongoing program support of CTS Youth Society, and fundraising initiatives. The Foundation’s Annual General Meeting was held on February 10, 2022.

Annual General Meeting

At the AGM held on February 10, 2022, three directors completed their service on the board, Ryan Lee, David Pohl, and Richard (Rich) Hankin. Ryan Lee joined PPF in 2018 and served as member at large on the executive for the past two years. David Pohl was a founding director of the Foundation, he was the first Vice Chair from 2000- 2007 and the second Chair from 2007 to 2020. David Pohl retired from the board this February having served as Past Chair. Rich Hankin also retired from the Board. Rich Hankin was a key part of conceiving the Foundation, he continues to serve on the Program and Fundraising committees.

Three new board members joined the Foundation board: Liyan Wan, a candidate member of the Canadian Institute of Planners and Junior Planner at Happy Cities. Smiely Khurana, Reel Green™ Sustainability Lead at Creative BC, and Mike Jerowsky a PhD Candidate and researcher in the UBC Geography Department and previous President of the Pacific Spirit Park Society.

The new Foundation Executive was elected: Sarah Marsh, President; Mark van der Zalm, Vice President; Kevin O’Callaghan, Past President; Terri van Sleuwen, Treasurer; and Lindsey Fryett Jerke, Secretary.

The audited financial statements were presented and approved. The Foundation’s Annual report was presented and can be found on the Pacific Parklands Foundation website (Reference).

Fundraising

The Foundation has received \$12,000 in funding from the Healthy Communities Initiative and \$5,000 from Epic Homes for the Kanaka Creek Regional Park Interpretive Art Mural, a Metro Vancouver Regional Parks Community Partnership. Grouse Mountain Resorts donated \$6,000 from mask sales in addition to the \$12,000 received previously.

In December the Foundation leveraged funding from the George Ross Legacy Fund for fundraising campaigns including a direct mail campaign and matching fund campaign with Park Partners.

The 2nd Annual Reel Earth Day Challenge, from April 1 – April 24th raised \$108,785 in partnership with Reel Green TM at Creative BC. These funds will support 7 transformative park projects which will:

- Create a new free transit program connecting young people from Tsleil-Waututh Nation with programs in t̓əmtə́míxʷt̓ən/Belcarra Regional Park
- Support free Mishkoopitum Youth Summer Camps, led by local Métis Leaders, where young people will learn to connect with nature and each other through life-changing outdoor experiences.
- Restore creek-side habitat in Capilano River Regional Park
- Bring nature-based climate action to Acadia Beach in Pacific Spirit Regional Park
- Increase Indigenous Visibility in t̓əmtə́míxʷt̓ən/Belcarra Regional Park
- Protect newts and other creatures in Capilano River Regional Park
- Develop new collaborative learning programs supporting Reconciliation in Campbell Valley Regional Park.

Programs and Grants

The Foundation provides grants of \$500 for schools and community groups to charter a bus for field trips to regional parks. While there were very few bus grants made for the 2020-21 school year, the Foundation is seeing increased applications and interest from schools and community groups.

In October 2021 the Foundation made a grant of \$10,000 to the Pacific Spirit Park Society to continue their work on restoring the Oregon Fairy Shrimp Habitat. A grant of \$2,500 was also made to the Colony Farm Park Association for bat monitoring and habitat stewardship.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

There are no financial implications.

CONCLUSION

Pacific Parklands Foundation continues to deliver on their mission under the direction of its volunteer Board. In collaboration with Regional Parks staff and park partners and volunteers, the Foundation remains active in its commitment in fundraising for Regional Parks programs and projects.

REFERENCES

[Pacific Parklands Foundation Annual Report 2021](#)

To: MVRD Board of Directors

From: Director Craig Hodge

Date: May 11, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for the Union of BC Municipalities (UBCM)**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 11, 2022 titled “External Agency Status Report for the Union of BC Municipalities (UBCM)”.

PURPOSE

To report to the Board of Directors on the activities of the Union of BC Municipalities (“UBCM”).

BACKGROUND

The Union of B.C. Municipalities (UBCM) represents the common interests of local governments in dealings with the provincial and federal governments. UBCM is a non-partisan, members-based organization. The policy basis for the organization is developed through resolutions endorsed at its annual meeting, complemented by direct consultation and a range of working groups and committees. The Executive of UBCM, to which the GVRD provides a direct appointment, meets quarterly.

UBCM’s Recent Activities

- Released a [statement](#) on housing supply to counteract persistent messaging that the growth in housing supply was failing to keep pace with population growth; and that slow local government approval processes are the primary cause of this perceived lack of supply. UBCM’s statement showed that: a) local governments have approved record amounts of supply over the past five years; b) that these increases in supply closely align with the actual growth in B.C.’s population; c) that the demand for housing is distorted by excessive investor demand; and d) that other factors, such as strained supply chains and labour shortages are playing a significant role in the completion of new homes.
- Worked with the Ministry of Public Safety to establish the Local Government Policing Modernization [roundtable](#). The roundtable’s work will include analysis and work related to the recommendations in the recently released [report](#) by the Special Committee on Reforming the Police Act.
- UBCM also facilitated three meetings between local governments and Public Safety Canada and the RCMP to discuss the impacts of costs arising from the federally negotiated RCMP collective agreement. UBCM and FCM are united in advocating for the federal government to absorb 100% of the retroactive costs to implement the collective agreement.
- UBCM is also working with the Ministry of Public safety to host a policing [town hall](#) for local governments to take place on May 31.

ALTERNATIVES

This is an information report. No alternatives are presented.

To: MVRD Board of Directors

From: Director, Darryl Walker

Date: May 12, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for Western Transportation Advisory Council (WESTAC)**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 12, 2022, titled “External Agency Status Report for Western Transportation Advisory Council (WESTAC).”

EXECUTIVE SUMMARY

This report provides the MVRD BOARD with an update related to WESTAC activities since the fall 2021. This includes information related to the ministerial roundtables that took place with freight transportation executives to effect improvements across the system, the 2021 Fall Member Forum, WESTAC’s 2022-2024 Strategic Plan, and the Quantum Computing workshops to address transportation challenges. In addition, it provides updates related to Phase II of the British Columbia Sector Labour Market Partnership Program carried out by WESTAC to examine best practices and draw lessons for BC, and WESTAC’s expression of interest submission to Transport Canada for funding under the NTCF program to develop a collaborative plan for a Western Transportation Strategy. The report provides follow up on WESTAC’s recent Spring Forum and shares the WESTAC Compass Report Leaders Survey Highlights following its annual survey of transportation executives conducted in September 2021.

PURPOSE

To provide the MVRD Board with an update on the activities of the Western Transportation Advisory Council (WESTAC) since October 14, 2021.

BACKGROUND

This report is being presented pursuant to the Board policy related to Metro Vancouver Board member appointments on external agencies and the requirement to produce bi-annual reports. WESTAC is a council of organizations in the transportation sector represented by senior decision-makers spanning all aspects of freight transportation in Canada. This includes carriers and logistics providers, ports and terminals, shippers, labour unions, and the three levels of government. Members represent a significant share of the western Canadian economy. The council is focused on critical issues that affect Western Canada’s freight transportation network to ensure that it is safe, efficient, reliable and competitive.

ALTERNATIVES

This is an information report. No alternatives are presented.

ROUNDTABLES: ALBERTA, MANITOBA AND TRANSPORT CANADA

In November 2021, WESTAC held a roundtable with the Honourable Rajan Sawhney, Minister of Transportation, Government of Alberta. In December 2021, a further roundtable was held with the Assistant Deputy Minister, Policy, Serge Bijimine, Transport Canada. And most recently, in April 2022, a

third roundtable was held in Winnipeg with the Honourable Doyle Piwniuk, Minister of Transportation & Infrastructure, Government of Manitoba. These roundtables provided an opportunity for Ministers Sawhney, Piwniuk and Deputy Minister Serge Bijimineto to hear from a diverse group of freight transportation executives across the Western Canadian transportation industry. Discussion focused on strategic issues facing the sector and opportunities for improvement across the system.

2021 FALL MEMBER FORUM

In December, WESTAC held its first in-person forum in two years at the Westin Bayshore in Vancouver. The theme was “A Legacy in the Making: The Impact of Critical Decisions on Canadian Prosperity,” and delved deeply into resiliency from two aspects: ensuring infrastructure is resilient from climate change and cyber risks. The forum also provided the opportunity to hear from members on developments affecting the transport of Canada’s exports and imports. During the Leaders Council, a closed session for official representatives to WESTAC, the Honourable Omar Alghabra, Federal Minister of Transport, announced a new call for proposals under the National Trade Corridor Fund (NTCF).

STRATEGIC PLANNING

The Board approved the 2022 – 2024 Strategic Plan in December. The Strategic Plan was developed based on a member survey that provided insight into expectations and needs and to drive future activities. A planning session was held in June 2021 with 11 members to confirm the strategic objectives for the coming years.

QUANTUM COMPUTING WORKSHOPS

Over 50 people registered for a virtual workshop held in partnership with the Quantum Algorithms Institute (QAI) on quantum computing for the transportation & logistics sector. In December, a second hybrid workshop was geared towards participants focused on operational issues and those with technical knowledge. In addition, QAI expressed interest in demonstrating how quantum computing can address transportation challenges through partnership and financial support.

COMPASS LEADER SURVEY 2021

WESTAC deployed its 5th annual survey of transportation executives in September 2021. Like past surveys, leaders were asked to share their views on key business, economical, supply chain and technological challenges and opportunities for the Western transportation system. This edition provided an interesting comparison of changes in the industry over the past five years. The report was released publicly in January 2022 (Attachment 1). It can also be found at [WESTAC Compass Report Leaders Survey Highlights 2022](#).

ADAPTING TO AUTOMATION & TECHNOLOGY—INTERNATIONAL BEST PRACTICES AND LESSONS FOR BC’S FREIGHT TRANSPORTATION WORKFORCE

In 2019, the British Columbia Sector Labour Market Partnership Program (SLMP) awarded WESTAC a contract to validate the human resources/labour markets issues transportation executives raised in its 2018 Compass Leader Survey. The project’s goal was to work with industry, labour, educational institutions, and governments to develop programs, pilots, and training to provide a qualified workforce that allows the Western Transportation Corridors to remain competitive and flourish.

In March 2021, the BC SLMP awarded WESTAC a second contract to carry out Phase II of the project. This phase examines international best practices and draw lessons for British Columbia. Extensive

primary and secondary research will be conducted, and a broad range of stakeholders will be involved, including employers, labour unions, educational institutions, and Indigenous communities.

Thirty interviews have been carried out to understand how other industries or transportation firms in other jurisdictions are preparing workers to work with new technologies. These interviews informed six case studies, with findings and recommendations discussed at two roundtable sessions in February 2022. The final report for this project will be submitted in June 2022.

WESTERN CANADA TRADE INFRASTRUCTURE INITIATIVE (WCTII)

In 2019, WESTAC undertook an initiative to identify infrastructure projects of trade-enhancing significance across Western Canada. Key WESTAC members were interviewed in late 2020 to determine such projects, and a preliminary list was circulated to all members in the summer of 2021. As an extension of this initiative, in March 2022, WESTAC submitted an expression of interest (EOI) to Transport Canada for funding under the NTCF program to develop a collaborative plan for a Western Transportation Strategy. As a result, Transport Canada has invited WESTAC to proceed to the next phase of the application process. Support for continuing with the process will be sought from the Executive Committee and Board of Directors.

2022 SPRING MEMBER FORUM

WESTAC held the 2022 Spring Member Forum on April 21 & 22 at the Hotel Saskatchewan in Regina. The theme for the Forum was “Rethinking & Reimagining Canada,” and focused on envisioning a new economic plan for Canada—one that supports sustainable growth to build a better quality of life for all Canadians and support stronger communities. As part of the program’s focus on Saskatchewan, Premier Scott Moe presented as a keynote speaker and outlined Saskatchewan’s future growth plan to build a stronger province.

FINANCIAL IMPLICATIONS

There are no financial implications.

SUMMARY / CONCLUSION

This report provides information on the activities of Western Transportation Advisory Council (WESTAC).

ATTACHMENTS

1. WESTAC Compass Report Leader Survey Highlights 2022

WESTAC COMPASS REPORT

LEADER SURVEY HIGHLIGHTS

2022

WE HEARD FROM:



Carriers & Logistics Providers: **31%**



Ports & Terminals: **27%**



Shippers: **17%**



Government: **11%**



Labour: **5%**



Others: **10%**

ABOUT THE COMPASS REPORT

The annual *Compass* survey is a unique WESTAC product that highlights critical insights, expectations and plans articulated by leaders and executives of Western Canada's transportation sector. We revise the survey annually to reflect shifting trends and events while building on data from previous surveys.

Data in this report is identified by the year in which it was gathered. The *2022 Compass Report* is the 5th annual report. The data reported were gathered from an online survey conducted from September 8 to 25, 2021. Figures have been rounded up or down to the nearest digit.

EXECUTIVE OBSERVATIONS

With the publication of its fifth annual *Compass Report*, WESTAC has reached a milestone. Five years of polling provide a substantial dataset we can now use to evaluate the changing attitudes and priorities within Canada's supply chains. It offers unique insights and network-wide intelligence from decision-makers and policy-makers at the most senior levels.

The perspectives shared in the survey were coloured by the COVID-19 pandemic again this year. It showed us that no institution or individual alone could address the complex and interdependent economic, environmental, social and technological challenges that characterize our world today. The pandemic has accelerated systemic changes that were becoming apparent before its inception. The challenges that emerged in 2020 are now at a critical crossroads, and the time to collaborate and make crucial decisions is now. There is an urgent need to reset priorities and reform systems, so they are positioned for strength and sustainability.

This year's survey contained signs of optimism. The business environment outlook is almost twice as positive as last year's, with more organizations looking to increase their workforces now than in any previous year. Although the business investment climate is brightening, it is not seen to be markedly improving. Insufficient capacity and aging infrastructure remain the top transportation challenges. The ability to address these problems is hindered by regulatory uncertainty and lack of coordination.

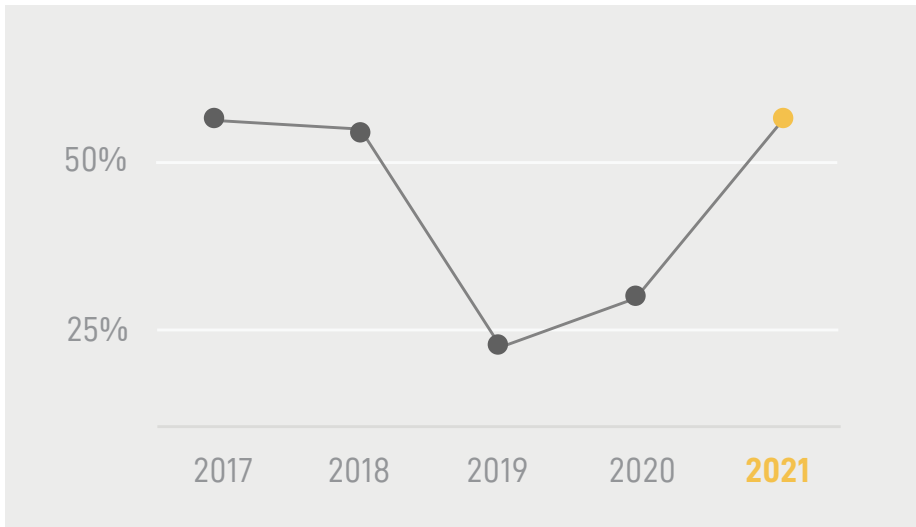
It is essential for leaders from all segments of the industry to work together for a more collaborative, cohesive, and sustainable future. Four in 5 executives surveyed indicated that a new comprehensive strategy should be developed for Western Canada's trade corridor.

For almost 50 years, WESTAC has served as a trusted platform where leaders from business, government, and labour convene to address critical issues. Given the need for cohesion and continued progress, it is clear that our role remains more important than ever.

Leaders are **optimistic about 2022**

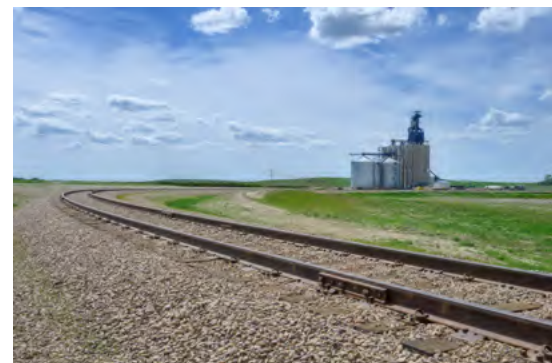


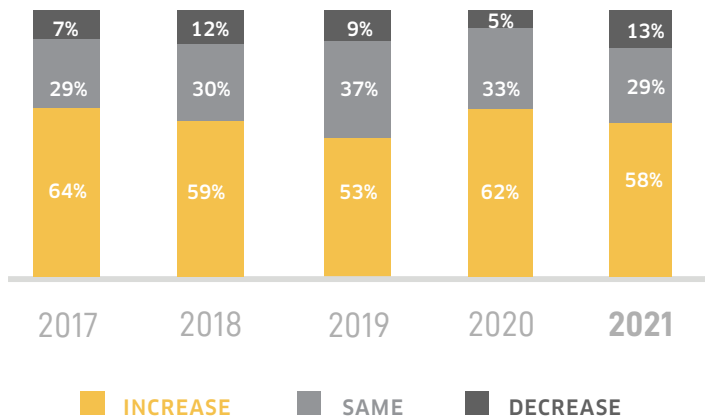
The outlook on the overall business environment has rebounded over the past year.



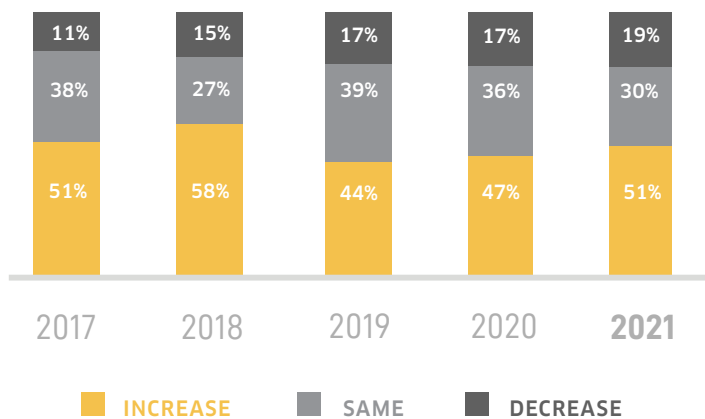
This year's **business environment outlook** is almost **twice as positive** as last year's and has nearly returned to the high levels of optimism that we saw 5 years ago.

The more positive outlook reflects increasing vaccination rates and decreases in the pandemic restrictions that hindered economic performance.

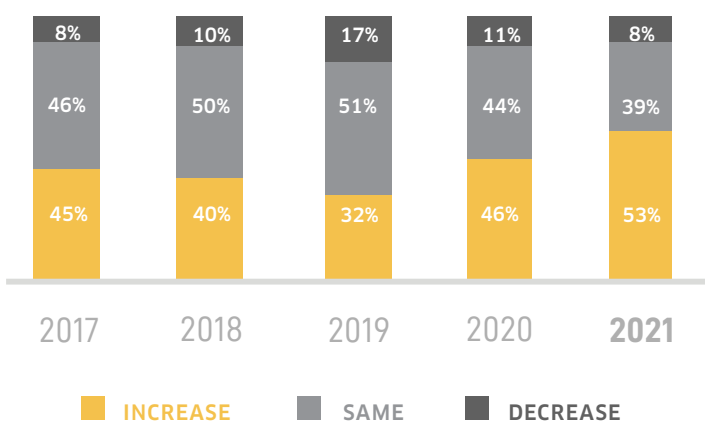




More than half of the organizations anticipate **revenue growth** in the next year, while only 1 in 10 expect a decrease.

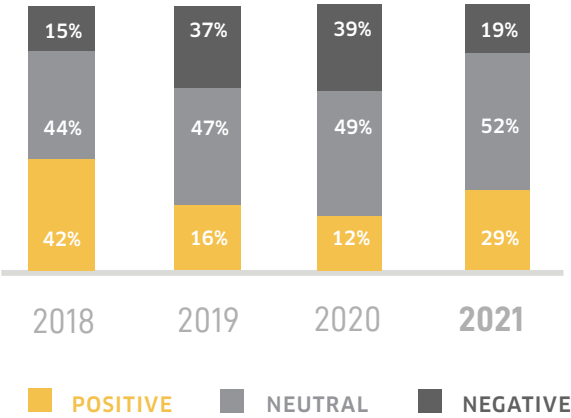


While some fluctuations can be observed, **capital spending** has been on an upward trend over the past 3 years.

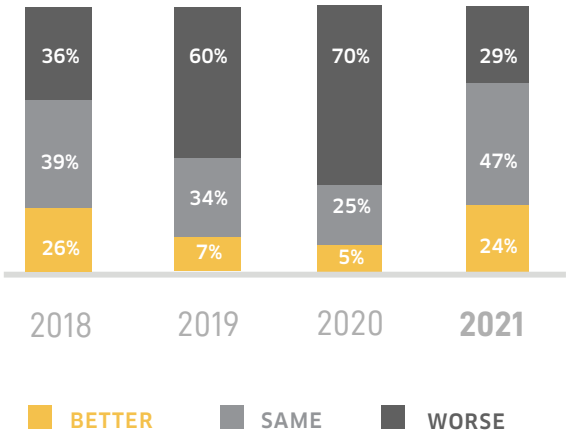


There are more organizations looking to increase their **workforces** now than in any previous year.

Leaders' views on Canada's **investment climate** have brightened, but have not rebounded to the level seen in 2018.



Nearly half of respondents believe the investment climate **has not improved** over the past year.



“ COVID-19 challenges continue to affect Canada’s business climate. Also, the effects of inflation and rising government debt are keeping the Canadian economy from recovering more quickly. ”

– RAILWAY

“ There is not a lot of movement with respect to regulatory hurdles in advancing projects in Canada versus other countries. We are not competitive enough to meet expected returns and timelines. Further, there is continued division within the country regarding natural resources and supporting made-in-Canada solutions. ”

– MARINE CARRIER

“ The same challenges of the past remain: port governance modernization remains unsolved, government regulatory processes continue to have moving goalposts, and Indigenous reconciliation has still not meaningfully advanced. ”

– TERMINAL OPERATOR

“ [The investment climate] could be excellent, but is held back by political uncertainty and the lack of qualified Canadian labour. ”

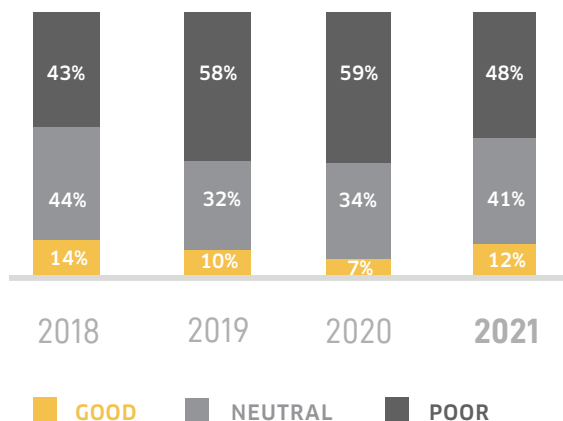
– LOGISTICS PROVIDER

“ I think it is very much a wait-and-see attitude at the present time among investors looking for growth potential. There has been a lack of confidence in the international community for major project investments for the past few years. ”

– PORT AUTHORITY

Industry leaders continue to perceive the **regulatory environment** negatively.

Half (48%) of the industry leaders rate the overall regulatory environment in Canada as poor.



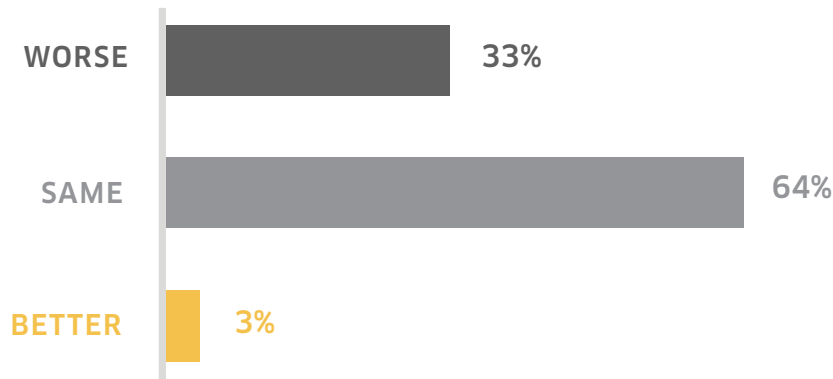
“ Regulatory processes change without explanation or recognition of the impact to competitiveness. There is a lack of government position on strategic priorities. ”

– **PORT AUTHORITY**

“ There is no cooperation between the provinces. We are in the transport business, and every province has a different set of rules, making it expensive to operate. This has not changed over the years despite the recognition that we need this change, especially with supply chain issues between the railways, ocean liners and ports. ”

– **LOGISTICS PROVIDER**

While more than **3 in 5 respondents (64%)** believe that the regulatory environment has remained unchanged over the past 12 months, a third (**33%**) say it has worsened, fuelling a downward trend in perceptions of the regulatory environment overall.

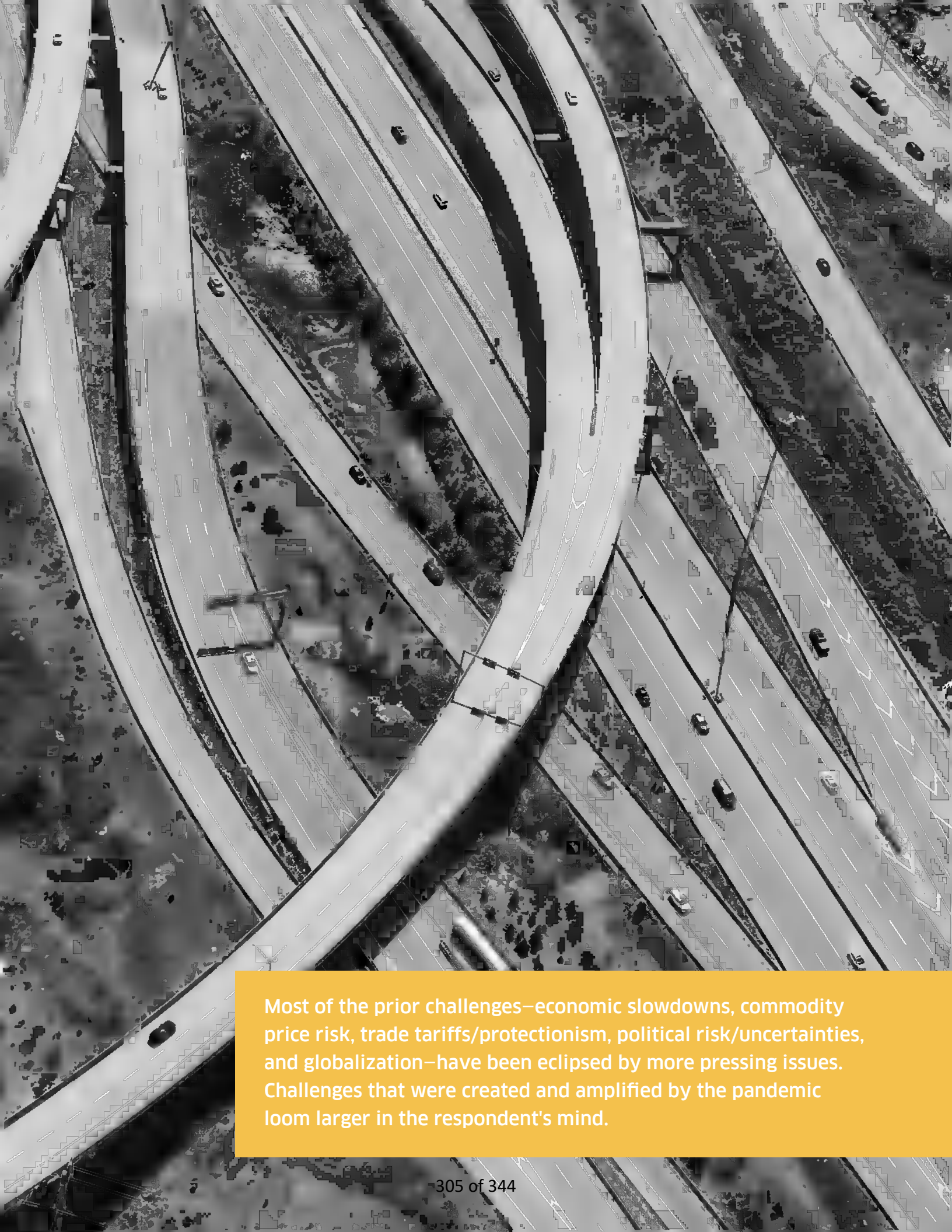


“ The regulatory environment has not responded to the climate change emergency and is stuck in a late-20th-century model of regulation. The case for urgent updates and reorientation is clear. ”

– **LABOUR**

“ The current regulatory approval process for all sizes of projects, especially in BC, has businesses looking elsewhere to spend their capital. Recent projects have taken 10 years to get approved, and with the new layer of approvals required from First Nations, it is unclear how this will be managed, creating uncertainty. Government has to find a way to enhance growth, not just get in the way of it. ”

– **MARINE CARRIER**



Most of the prior challenges—economic slowdowns, commodity price risk, trade tariffs/protectionism, political risk/uncertainties, and globalization—have been eclipsed by more pressing issues. Challenges that were created and amplified by the pandemic loom larger in the respondent's mind.

TOP 5 BUSINESS CHALLENGES

1

COVID-19

Two thirds of respondents (down from 80% last year) are concerned about the lingering effects of the pandemic and when things will return to “normal.”

2

BUSINESS DISRUPTIONS

Executives are increasingly concerned about the effects of disruptors on business operations such as blockades and extreme climate events.

3

LABOUR SHORTAGES

More than 3 in 5 organizations (63%) are facing some labour shortages—the largest number in the past 4 years.

4

REGULATORY / LEGISLATIVE CHANGES

Uncertainty about regulatory processes, costs and timeliness continues to inhibit business investment and competitiveness.

5

CLIMATE CHANGE

For the first time, survey respondents have identified climate change as a top challenge. Wildfires, droughts and other catastrophic weather events have tested carriers' abilities to move goods.

Spotlight on the **COVID-19** pandemic

In keeping with being the top business challenge, the COVID-19 pandemic has had a major impact on Western Canada's supply chains.

45% of survey respondents said they believe COVID-19 has had a **significant or critical impact on supply chains overall**, double the number who felt this way last year.

35% believe that the impact of COVID-19 on supply chains was moderate.

“ COVID-19 remains a major issue that all organizations and governments are grappling with. Although adaptive and mitigating measures have been undertaken, its impact on daily life remains widespread. ”

– **PORT AUTHORITY**

“ The pandemic has affected the timeliness of deliveries, predictability and costs, but also the fundamental supply chain business model. ”

– **INDUSTRY EXPERT**

“ COVID-19 has had a significant impact on supply chain resilience versus lean logistics and just-in-time models of supply chain management. Sourcing networks are being reviewed at the foundation. ”

– **LOGISTICS PROVIDER**

“ In the face of COVID-19, there is still strong consumer demand and an expectation of government stimulus to restart the economy as it opens up after pandemic lockdown measures. However, this should be tempered with inflationary concerns and swelling government debt. ”

– **SHIPPER**

Sustainability emerges as a priority



Sustainability is top of mind, with half of organizations having commitments to lower emissions.

New this year, industry leaders were asked about their sustainability practices. More than half (52%) indicated that they had made commitments to reduce emissions.

- 34% have commitments to reduce emissions by a certain percentage.
- 18% have a net-zero commitment.

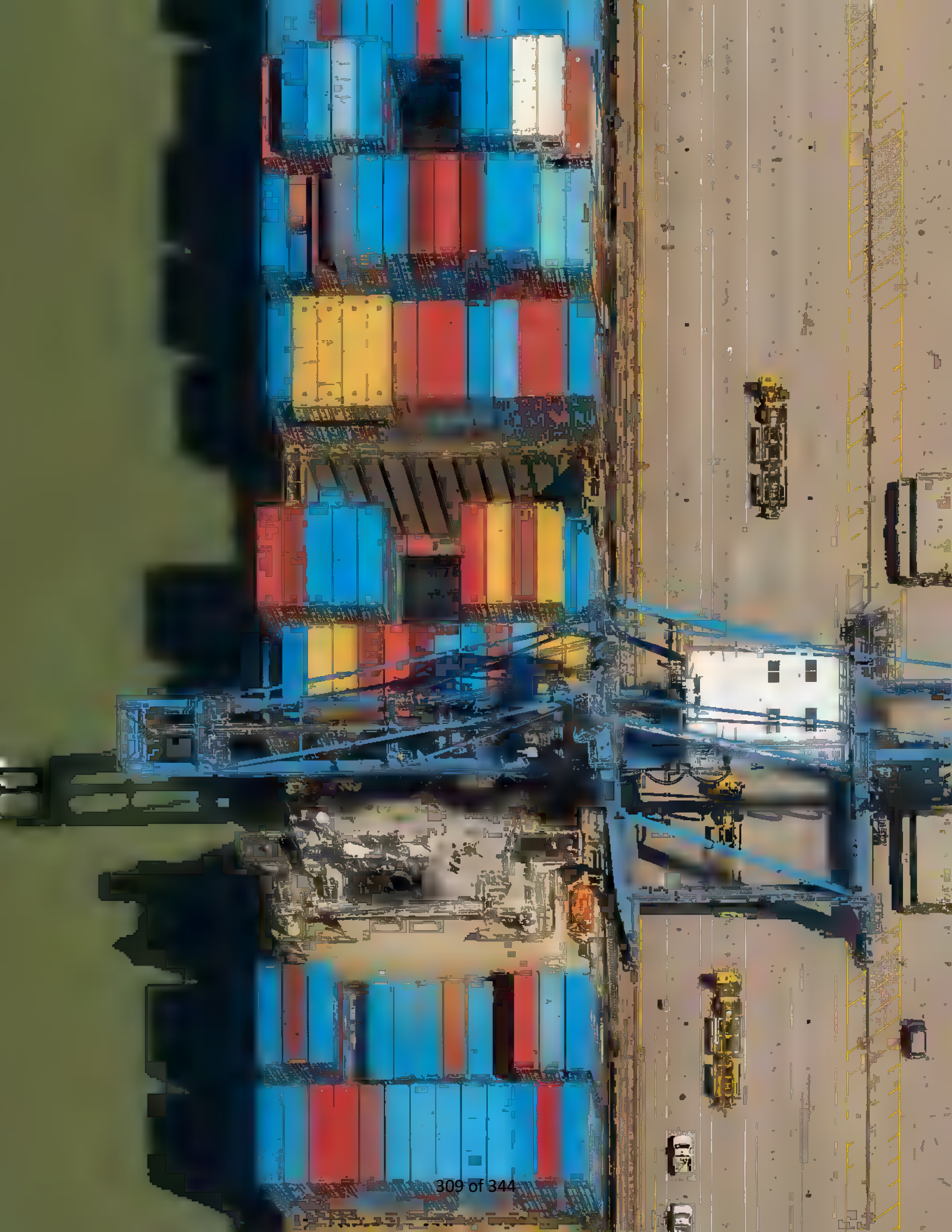


“ Western Canada is well positioned to enjoy the economic benefits of a post-COVID-19 recovery while reaping the benefits of the transformation to a net-zero carbon economy. The question is, are our business and political leaders willing to do so? ”

– **TERMINAL OPERATOR**

“ Addressing climate change seriously and effectively will require shifting priorities for capital investment. ”

– **LABOUR**



TOP 3 TRANSPORTATION CHALLENGES

1

INFRASTRUCTURE AND CAPACITY

This continues to be a top challenge for the 5th consecutive year. More than 90% of respondents are most concerned about insufficient capacity and aging infrastructure. Other significant concerns included shipping and container challenges, coupled with lack of reliable forecasting.

2

WORKFORCE

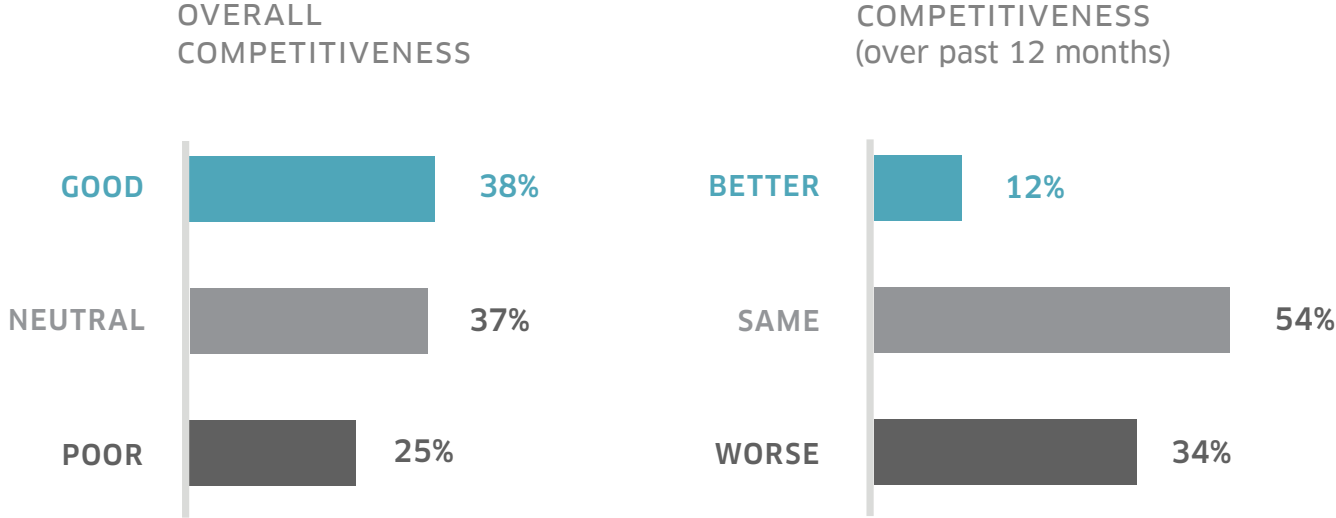
While pandemic-related impacts on the workforce are the most immediate concerns, displacement of workers due to technology, lack of suitable training programs and unclear work/rest rules were rated as significant concerns. These concerns are particularly high among carriers, logistics providers and shippers.

3

OPERATIONAL ISSUES

Mitigating the risks of COVID-19 dominate the short-term operational difficulties. More than 80% of respondents cite congestion, reliability and lack of data sharing as ongoing concerns.

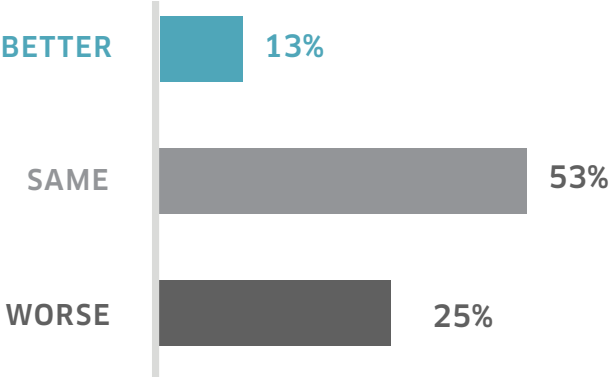
Respondents have mixed views on Western Canada's supply chains.



Half of industry leaders consider competitiveness unchanged over the past year, while **1 in 3 believe it has worsened**. Port authorities and terminal operators are most likely to believe competitiveness has worsened, whereas labour leaders consider it to be somewhat improved.

Shippers, retailers, carriers and logistics providers are most inclined to rate cost-competitiveness negatively compared to other sectors.

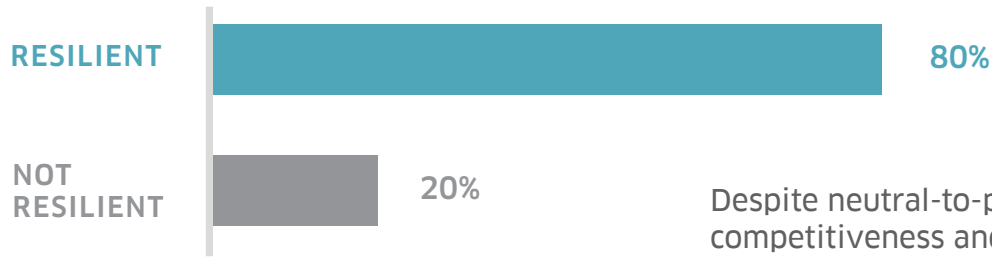
REPUTATION



One in 3 industry leaders believe that the reputation of Western Canada's supply chains has worsened over the past year, while **only 1 in 10 think it has improved**.

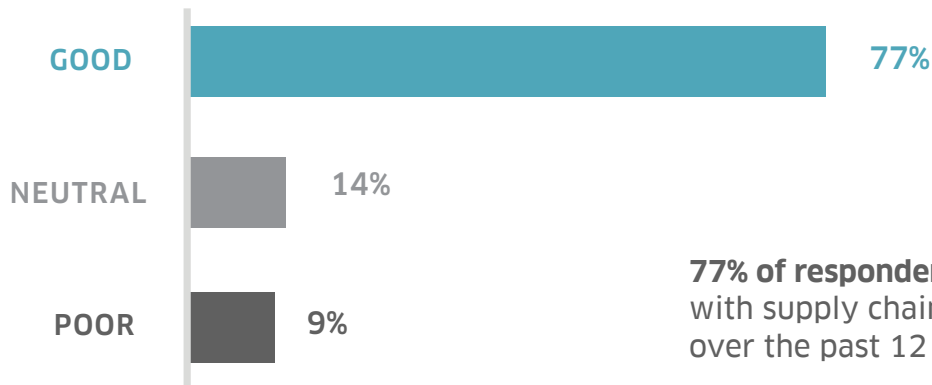
The reputation of Western Canada's supply chains depends on reliability. Frequent disruptions, delays, wait times and congestion all affect reputation negatively.

RESILIENCE



Despite neutral-to-poor perceptions of competitiveness and reputation, **most industry leaders (80%)** rate Western Canada's supply chains as resilient.

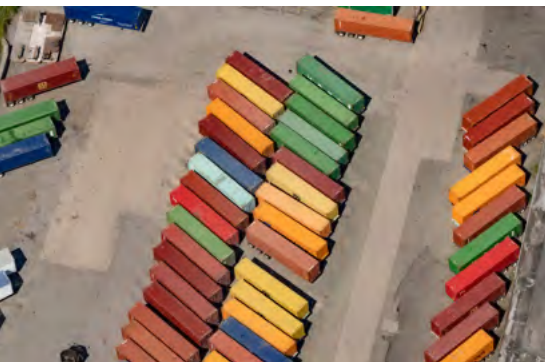
COLLABORATION



77% of respondents rated their relationships with supply chain partners **very positively** over the past 12 months.



To enhance competitiveness—and ultimately, Western Canada's reputation within the global marketplace—the transportation sector can leverage collaboration among stakeholders to improve supply chain performance and reliability.





78% of respondents believe a new strategy is needed for Western Canada's trade corridors.



Four in five executives surveyed want to see a **comprehensive new strategy** developed for Western Canada's trade corridors.

Western Canada's supply chains are managing disruptions related to the COVID-19 pandemic, despite the underlying conditions that have hindered the optimization of these critical trade corridors. A broader strategy is needed to address continued bottlenecks in our rail, port and pipeline infrastructure, improve visibility across systems, coordinate and stabilize inter-jurisdictional regulatory systems, and balance investments to increase fluidity across the network.

“ Commodities for energy transition will see increased demand in the coming years. Some of these commodities are hazardous and can only be moved with full cooperation of the federal, provincial and municipal governments along with the private sector. We have to rethink how our transportation routes are established and operated to support the transition. ”

– **SHIPPER**

“ We need a national conversation about true supply chain priorities and needs that connect from production to the consumer or export channel. There needs to be a shared understanding of current capacities and investment priorities, without the cloud of secrecy and suspicion that some stakeholders bring to the table. ”

– **GOVERNMENT**

“ Our approach is not forward-thinking enough, and as a result, we are already far behind the growth curve. As other global economies emerge, we need to ensure Canada remains competitive and relevant. ”

– **TERMINAL OPERATOR**

“ Corridor strategies to date have been developed to support regional government investment in the absence of a comprehensive transportation strategy. ”

– **PORT AUTHORITY**

“ Demand is growing and shifting, and climate change is a reality. Therefore, we need a new strategy that incorporates these new challenges and opportunities. ”

– **RAILWAY**

“ There has to be more focus on addressing the concerns and interests of Indigenous people and greater consideration of climate change. ”

– **LABOUR**

Technology adoption is important to improve supply chains—but there are barriers to overcome.

BARRIERS TO TECHNOLOGY ADOPTION:



Budgetary constraints: **53%**



Uncertain return on investment: **38%**



Lack of relevant skills and competencies: **37%**



Resistance to new or unfamiliar technologies: **33%**



Implementing technology without disrupting operations: **32%**

Increasing productivity and competitiveness and improving supply chain efficiency and transparency are the factors driving the adoption of technology.

“ Further investments in infrastructure and technology [will] reduce dwell times at ports and terminals. ”

— RAILWAY

How can we **improve** Western Canada's **supply chains**?

“ Increased transparency and communication between all supply chain participants is needed. ”

– **SHIPPER**

“ Continue to improve infrastructure across Western Canada. Traffic has been disrupted this year, but the highways from the Ontario border to Vancouver all have major improvements going on. ”

– **GOVERNMENT**

“ We need a more efficient environmental process to get the required major capital to the building stage in half the present time. We need additional rail capacity and sufficient resources to deal with severe winter conditions. ”

– **INDUSTRY EXPERT**

“ Priorities should focus on innovation, data exchange and management of the logistics infrastructure as a system. ”

– **TERMINAL OPERATOR**

TAKE-AWAY MESSAGES

Prioritize People

For the first time in our survey history, respondents cited workforce issues as one of the top 3 transportation challenges. Many anticipate a great exodus from the labour force as baby boomers retire or shift their priorities because of the pandemic. Organizations need to pay greater attention to their workforces to build resilience and make transportation the industry of choice. This includes training today's staff for the jobs of tomorrow.

Resolve Uncertainty

Organizations understand the importance of regulation, but they also need clarity so they can plan for and meet requirements. Uncertainty combined with continual change in the regulatory environment is negatively affecting Canada's reputation and competitiveness. Leaders also noted that reconciliation with Indigenous peoples has not meaningfully advanced as much as it should have. The pace and outcome of agreements between Canada, the provinces and First Nations is lagging far behind the pace of investment opportunities.

Tackle Supply Chain Crises

The industry collaborated and adapted to minimize the impact of the COVID-19 pandemic on transportation networks. It needs to adopt the same tenacity and spirit of cooperation to resolve other long-standing challenges, such as the lack of inter-jurisdictional coordination, lack of transparency, and capacity constraints that have resulted in today's supply chain crisis. We need inclusive consultation with all transportation stakeholders to develop a new Western Canadian trade corridor strategy. The strategy should focus on investments that enhance system-wide fluidity through increased data-sharing and new strategic infrastructure that is also climate-resilient.

Reduce Emissions and Make Climate Action a Priority

A growing number of transportation providers are committed to reducing greenhouse gas emissions and are working toward net-zero. However, this is not enough. To achieve the greatest impact, all firms should strive to reduce emissions on an accelerated timeline with quantifiable metrics. Beyond this, organizations need contingency plans for climate-related incidents in order to remain resilient and competitive.

HOW WILL WESTAC HELP?

→ Convene

We play a convening role across sectors and governments. Our responsibility is to bring parties together and develop a common understanding of the events and issues that affect the business of transportation.

→ Broker Information

We continuously gather critical industry research and findings to share with transportation stakeholders.

→ Voice Concerns

We raise awareness of critical transportation issues and act as a catalyst to stimulate discussion and search for solutions.

→ Engage

We bring individuals, transportation leaders and governments together, ensuring they're engaged and moving forward collectively to improve Western Canada's transportation industry.

Transportation Leaders Catalyzing Change

WESTAC is a not-for-profit, non-partisan forum composed of leaders from the private sector, government and labour. Our members work together to resolve the constraints and inefficiencies that undermine the performance of Western Canada's supply chains and transportation sector. Trade continues to be a cornerstone of Canada's economic growth. Getting goods to market reliably and competitively has never been more essential.



Please feel free to use the survey results in your reports and presentations. You can also request additional resources, including infographics, presentation slides and print or digital copies of Compass Reports.

To order, contact **Marzia Rizvi**, WESTAC's Manager, Program Development and Communications, at mrizvi@westac.com or **604-687-8691**.



225–1130 West Pender Street
Vancouver, BC V6E 4A4
(604) 687 8691

westac.com

Published January 2022

To: MVRD Board of Directors

From: Jen McCutcheon, EAA Director

Date: May 11, 2022 Meeting Date: May 27, 2022

Subject: **External Agency Status Report for the Metro Vancouver Zero Emissions Innovation Centre (ZEIC)**

RECOMMENDATION

That the MVRD Board receive for information the report dated May 13, 2022, titled “External Agency Status Report for the Metro Vancouver Zero Emissions Innovation Centre (ZEIC)”.

EXECUTIVE SUMMARY

Seeded by a \$21.7 million federal endowment, the Metro Vancouver Zero Emission Innovation Centre (ZEIC) is a purpose-built organization with a mandate to catalyze, accelerate and scale zero emissions market transformation across the region and make an important contribution to the zero carbon economy across the province. ZEIC will advance urban climate solutions in the green building, transportation and renewable energy sectors through capacity building, policy innovation, research, projects, impact investment, granting, partnerships, and collaboration.

Since its establishment in 2021, the focus has been on the recruitment of a Board of Directors and an Executive Director, building the staff team, developing programs and partnerships, and initiating strategic planning. In April 2022, ZEIC integrated the Zero Emissions Building Exchange (ZEBx) as a new long-term program area. Over the coming year, ZEIC staff and Board members will be engaging within the region as part of its strategic planning process with a view to adopting a strategic plan by the end of 2022.

PURPOSE

This report provides a status update of activities to date of the Metro Vancouver Zero Emissions Innovation Centre (ZEIC).

BACKGROUND

The Metro Vancouver Zero Emissions Innovation Centre (ZEIC; Reference 1) was incorporated as a Canadian not-for-profit organization on April 20, 2021, and this report provides the first status update for the external agency. ZEIC is one of seven Low Carbon Cities Canada (LC3) Centres established through an endowment by the Government of Canada and in partnership with the Federation of Canadian Municipalities. The LC3 Centres represent nearly 50% of Canada’s population and include the Metro Vancouver region, Edmonton, Calgary, Greater Toronto & Hamilton area, Halifax Region, Montreal Metropolitan Community, and Ottawa.

Working with diverse private, public, and social sector players, ZEIC will advance strategic priorities that help meet the ambitious 2030 and zero emission 2050 targets of local, regional, provincial and federal governments, and will work with Indigenous Nations to support climate action priorities and

initiatives. ZEIC will focus on strategic agendas that align with the Province's *CleanBC* Plan and Metro Vancouver's *Climate 2050* strategy. Equity, affordability, community health and well-being, environmental protection, and economic development will be integrated into climate action programming.

METRO VANCOUVER ZERO EMISSIONS INNOVATION CENTRE

By July of 2021, a Board of Directors with expertise and experience from the public, private and not-for-profit sectors was established. Director Adriane Carr was appointed from the City of Vancouver, and Director Jen McCutcheon was appointed by the Metro Vancouver Board to represent the regional district. The ZEIC Board subsequently recruited Melina Scholefield as Executive Director. In January 2022, ZEIC received the balance of its \$21.7M endowment from the Federation of Canadian Municipalities and was able to begin staff recruitment and program development. Currently ZEIC has six staff and the organization is expected to expand this year to 10-12 staff to deliver impact investing, granting, and other programs.

Zero Emissions Buildings Exchange (ZEBx)

A key decision by the ZEIC Board on January 20, 2022 was to integrate the Zero Emissions Building Exchange (ZEBx; Reference 2), as a long-term program area within ZEIC. ZEBx serves as an industry Centre of Excellence that strengthens the public, private, and civic capacities for zero emission buildings in the Metro Vancouver region and throughout British Columbia, and was previously hosted by the Vancouver Regional Construction Association and SFU. ZEBx facilitates knowledge exchange between a variety of professionals in the building industry and maintains a community of practice through events, resource development and communications. ZEBx brings together industry silos, and collaborates with industry associations, governments, utilities, researchers, educational institutions, suppliers and global experts.

Priority Program Areas

Priorities for ZEIC programming includes the Women for Climate Mentorship Program (Reference 3) and participating in a LC3 Network initiative to create a knowledge product for elected officials on high impact municipal electric vehicle policies and tools. Priority initiatives for the ZEBx program area include (1) serving as the secretariat for the Building to Electrification (B2E) Coalition, (2) Advancing near zero new construction practices, (3) establishing a building retrofit accelerator (collaborative initiative with Metro Vancouver and with support from other partners) and (4) establishing a new BC-wide Embodied Carbon Centre of Excellence and demonstration programs as well as integrating the Carbon Leadership Forum organization within ZEBx.

Planning for the Future

The Board has initiated a Strategic Planning process that is expected to take place over the course of 2022. A Board retreat from April 20-21, 2022 was the first step in exploring needs and potential roles for ZEIC in the regional climate action ecosystem. Over the coming months, ZEIC staff and Board Members will engage more broadly within the region to listen, learn and test some of the early ideas emerging from the April Board session. In September, the Board will reconvene for direction-setting with the intention to finalize a Strategic Plan by end of year.

Leveraging Resources to Support ZEIC's Mandate

As part of the establishment of the LC3 network, all regional Centres including ZEIC, have an obligation to match the \$21.7M Federal endowment through one of two leverage paths: (1) An 80% endowment match (\$17.4M), or (2) a 100% endowment match (\$21.7M) based on 50% endowment match (\$10.9M); and 50% project level funding match (\$10.9M). As such, ZEIC will be continuing to leverage its endowment resources and explore potential partnerships and funding relationships to support its work with communities in the region and climate action enabling mandate. To date, ZEIC has raised just under \$4 million in funding contributions to support its programs and activities over the coming three years.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

At its meeting on February 25, 2022, the MVRD Board approved funding for a Sustainability Innovation Fund project that will establish a regional large building Retrofit Accelerator program. The approved funding amount for 2022-2024 is \$850,000. It is expected that ZEIC will be a key partner in developing and managing the Retrofit Accelerator.

CONCLUSION

The past year has been a productive start for ZEIC as a new organization. With a strong Board, capable staff team, many collaborators committed to working together, and a strong start on fundraising to support its mandate, the organization is well-positioned to deliver near-term impact. Through green building and climate leadership programs and initiatives and ongoing efforts to develop a strategic plan, ZEIC will be contributing to positive progress towards the region's ambitious climate emission reduction targets.

References

1. [Metro Vancouver Zero Emissions Innovation Centre](#)
2. [Zero Emissions Building Exchange](#)
3. [Women4Climate Mentorship Initiative](#)

To: Climate Action Committee

From: Cindy Onyejekwe, Senior Policy Analyst
Esther Berube, Division Manager, Air Quality Bylaw and Regulation Development
Parks and Environment Department

Date: May 3, 2022 Meeting Date: May 13, 2022

Subject: **MVRD Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022**

RECOMMENDATION

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022*.
-

EXECUTIVE SUMMARY

Metro Vancouver regulates the discharge of air contaminants through site-specific permits and emission regulations that apply to groups of similar sources. A system of regulatory fees has been established to recover administrative costs and encourage emission reductions based on the potential health and environmental impact of air contaminants. Engagement on updates to air quality management fees took place from January to April 2021. Emails were sent to all facilities regulated under *GVRD Concrete and Concrete Products Industries Emission Regulation Bylaw No. 1084, 2008* (Bylaw 1084), with information that would result in increases of \$50 to each facility's annual fees. Metro Vancouver heard no concerns from these regulated facilities. On October 29, 2021, the MVRD Board updated the fees when it adopted *MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021* (Bylaw 1330). Consequential amendments to Bylaw 1084 are needed, to update fees in alignment with the changes proposed during engagement and the updated fee rates in Bylaw 1330.

PURPOSE

To seek MVRD Board adoption of amendments to fees in Bylaw 1084 to align with the changes proposed during engagement and with Bylaw 1330, adopted by the MVRD Board in October 2021.

BACKGROUND

At its October 29, 2021 meeting, the MVRD Board adopted Bylaw 1330 (Reference 1), which repealed and replaced *GVRD Air Quality Management Fees Regulation Bylaw No. 1083, 2008* to update Metro Vancouver's air quality permit and regulatory fees. Consequently, updates to fees are needed in Bylaw 1084, in order to maintain consistency with the fee rates set out in Bylaw 1330 and to implement changes to bylaw administration fees as proposed during engagement. This report seeks Board adoption of amendments to fees in Bylaw 1084.

RECENT UPDATES TO AIR QUALITY PERMITTING AND REGULATORY FEES

Metro Vancouver charges fees for authorized air emissions to recover the cost of its air quality regulatory services, incentivize emission reductions, and improve air quality. Fees are stipulated in an air quality management fees bylaw for individual permitted facilities and various emission regulations for industrial sectors. Emission regulations apply fixed registration fees, as well as annual administration fees that have both fixed and variable components. The variable portion of the fees are based upon the quantity and type of air contaminants authorized to be discharged.

During an engagement process from January to April 2021, Metro Vancouver sought feedback on adjusting fixed fees for inflation and increasing variable fees for emissions of air contaminants (Reference 2). Emails and invitations to webinars were sent to all facilities registered under Bylaw 1084. Metro Vancouver did not hear any concerns from these regulated facilities. Bylaw 1330 was then developed in alignment with Metro Vancouver's principles of continuous improvement, discharger pay, and cost recovery. Bylaw 1330 includes updated fees for emissions of air contaminants that reflect new information on the estimated costs of health impacts associated with various types of emissions.

With the adoption of Bylaw 1330, supporting amendments to emission regulations are needed to reflect the new fees and inflationary changes, since these fees have not increased since the bylaws were adopted in 2008. As specified in Bylaw 1330, the air contaminant emission fee rates used to calculate the variable emission fees will increase gradually until 2028.

UPDATES TO CONCRETE AND CONCRETE PRODUCTS INDUSTRIES EMISSION REGULATION BYLAW 1084

The proposed amendments to Bylaw 1084 in Amending Bylaw 1341 (Attachment 1) seek to increase the annual fixed administrative fees from \$200 to \$250 to reflect inflationary changes, as proposed during engagement (Reference 2). The updated fees would take effect on January 1, 2023.

ALTERNATIVES

1. That the MVRD Board:
 - a) give first, second and third reading to *Metro Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022*.
2. That the MVRD Board receive for information the report dated May 3, 2022, titled "MVRD Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022" and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

Under Alternative 1, the proposed bylaw would update Bylaw 1084 to align with the regulatory fees in Bylaw 1330 and the administrative fees proposed during engagement. Starting in 2023, updated regulatory costs would be recovered from emitters authorized under Bylaw 1084, in alignment with Metro Vancouver's principles of discharger pay, continuous improvement, and cost recovery. The amendments would result in an increase of \$50 to each facility's annual fees.

CONCLUSION

After an engagement process from January to April 2021, the Board adopted the *MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021* (Bylaw 1330) on October 29, 2021, to include updated fees for air emissions and account for inflationary changes that have not been reflected in the bylaw since 2008. Consequentially, changes to *GVRD Concrete and Concrete Products Industries Emission Regulation Bylaw No. 1084, 2008* are needed to ensure fees are aligned with the fees proposed during engagement and those set out in Bylaw 1330. With the amendments to Bylaw 1084, the expected fees from dischargers will cover a share of Metro Vancouver's air quality regulatory services, while also encouraging emission reductions and leading to air quality improvements. Alternative 1 is recommended.

Attachment

1. *MVRD Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022*

References

1. [MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021 \(Bylaw 1330\)](#)
2. [Discussion Paper - Proposed Amendments to Air Quality Permit and Regulatory Fees in Metro Vancouver](#)

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**METRO VANCOUVER REGIONAL DISTRICT
BYLAW NO. 1341, 2022
A Bylaw to Amend “Greater Vancouver Regional District Concrete and Concrete Products
Industries Emission Regulation Bylaw No. 1084, 2008”**

WHEREAS:

- A. The Metro Vancouver Regional District has enacted the “Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008”;
- B. That Bylaw contemplates that the Board of the Metro Vancouver Regional District may establish emission regulations and fees;
- C. The Metro Vancouver Regional District has enacted the “Metro Vancouver Regional District Air Quality Management Fees Regulation Bylaw No. 1330, 2021”;
- D. The Metro Vancouver Regional District has enacted the “Greater Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Bylaw No. 1084, 2008”; and
- E. The Board of the Metro Vancouver Regional District wishes to amend the “Greater Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Bylaw No. 1084, 2008”.

NOW THEREFORE the Board of the Metro Vancouver Regional District enacts as follows:

Citation

- 1. The official citation of this bylaw is “Metro Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Amending Bylaw No. 1341, 2022”.

Amendment of Bylaw

- 2. “Greater Vancouver Regional District Concrete and Concrete Products Industries Emission Regulation Bylaw No. 1084, 2008” is amended as follows:
 - (a) Section 4 is amended by striking out “Greater Vancouver Regional District” in both places and substituting “Metro Vancouver Regional District”.
 - (b) Section 10 is deleted and replaced with the following:
 - 10. Each year, each registered operator must pay to the District a fee of \$250 for that calendar year or portion thereof, payable by April 1 of each year, or upon registration if registration occurs after April 1 of that year.
 - (c) Section 14 is amended by striking out “Greater Vancouver Regional District” and substituting “Metro Vancouver Regional District”.

Read a first time this _____ day of _____, _____.

Read a second time this _____ day of _____, _____.

Read a third time this _____ day of _____, _____.

Passed and finally adopted this _____ day of _____, _____.

Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

To: Climate Action Committee

From: Cindy Onyejekwe, Senior Policy Analyst
Esther Berube, Division Manager, Air Quality Bylaw and Regulation Development
Parks and Environment Department

Date: May 3, 2022 Meeting Date: May 13, 2022

Subject: **MVRD Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022**

RECOMMENDATION

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022*.
-

EXECUTIVE SUMMARY

Metro Vancouver regulates the discharge of air contaminants through site-specific permits and emission regulations that apply to groups of similar sources. A system of regulatory fees has been established to recover administrative costs and encourage emission reductions based on the potential health and environmental impact of air contaminants. Engagement on updates to air quality management fees took place from January to April 2021. Emails were sent to all facilities regulated under *GVRD Gasoline Distribution Emission Regulation Bylaw No. 1085, 2008* (Bylaw 1085), with information about increases to annual fees ranging from \$50 for most facilities to a few thousand dollars for bulk and terminal facilities. Metro Vancouver heard no concerns from these regulated facilities. On October 29, 2021, the MVRD Board updated the fees when it adopted *MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021* (Bylaw 1330). Consequential amendments to Bylaw 1085 are needed, to update fees in alignment with the changes proposed during engagement and the updated fee rates in Bylaw 1330.

PURPOSE

To seek MVRD Board adoption of amendments to fees in the *GVRD Gasoline Distribution Emission Regulation Bylaw No. 1085, 2008* (Bylaw 1085) to align with Bylaw 1330, adopted by the MVRD Board in October 2021.

BACKGROUND

At its October 29, 2021 meeting, the MVRD Board adopted Bylaw 1330 (Reference 1), which repealed and replaced *GVRD Air Quality Management Fees Regulation Bylaw No. 1083, 2008* to update Metro Vancouver's air quality permit and regulatory fees. Consequently, updates to fees are needed in Bylaw 1085, in order to maintain consistency with the fee rates set out in Bylaw 1330. This report seeks Board adoption of amendments to fees in Bylaw 1085.

RECENT UPDATES TO AIR QUALITY PERMITTING AND REGULATORY FEES

Metro Vancouver charges fees for authorized air emissions to recover the cost of its air quality regulatory services, incentivize emission reductions, and improve air quality. Fees are stipulated in an air quality management fees bylaw for individual permitted facilities and various emission regulations for industrial sectors. Emission regulations apply fixed registration fees, as well as annual administration fees that have both fixed and variable components. The variable portion of the fees are based upon the quantity and type of air contaminants authorized to be discharged.

During an engagement process from January to April 2021, Metro Vancouver sought feedback on adjusting fixed fees for inflation and increasing variable fees for emissions of air contaminants (Reference 2). Emails and invitations to webinars were sent to all facilities registered under Bylaw 1085. Metro Vancouver did not hear any concerns from these audiences during the engagement period. Bylaw 1330 was then developed in alignment with Metro Vancouver's principles of continuous improvement, discharger pay, and cost recovery. Bylaw 1330 includes updated fees for emissions of air contaminants that reflect new information on the estimated costs of health impacts associated with various types of emissions.

With the adoption of Bylaw 1330, supporting amendments to emission regulations are needed to reflect the new fees and inflationary changes, since these fees have not increased since the bylaws were adopted in 2008. As specified in Bylaw 1330, the air contaminant emission fee rates used to calculate the variable emission fees will increase gradually until 2028.

UPDATES TO GASOLINE DISTRIBUTION EMISSION REGULATION BYLAW 1085

Bylaw 1085 contains fixed administrative fees and variable emission fees for photoreactive volatile organic compounds (VOC). The proposed amendments seek to increase the fixed fees for bulk plants, distribution terminals, and fuel transfer vehicles from \$200 to \$250; and to increase the fixed fees for service stations from \$150 to \$200, to adjust for inflation as proposed during engagement. Under Bylaw 1085, the variable emission fees only apply to bulk and terminal plants. The proposed Amending Bylaw 1342 (Attachment 1) seeks to add a new Air Contaminant Emission Fee schedule outlining the air contaminant emission fee rates for photoreactive VOC to match the emission fee rates in Bylaw 1330. The updated fees would take effect on January 1, 2023.

ALTERNATIVES

1. That the MVRD Board:
 - a) give first, second and third reading to *Metro Vancouver Regional District Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022*.
2. That the MVRD Board receive for information the report dated May 3, 2022, titled "MVRD Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022" and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

Under Alternative 1, the proposed bylaw would update Bylaw 1085 to align with the regulatory fees in Bylaw 1330. Starting in 2023, updated regulatory costs would be recovered from emitters authorized under Bylaw 1085, in alignment with Metro Vancouver's principles of discharger pay, continuous improvement, and cost recovery. The amendments would result in an increase of \$50 in annual fees for most facilities, with a small number of bulk and terminal facilities seeing an increase of less than \$4500 in annual fees per facility.

CONCLUSION

After an engagement process from January to April 2021, the Board adopted the *MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021* (Bylaw 1330) on October 29, 2021, to include updated fees for air emissions and account for inflationary changes that have not been reflected in the bylaw since 2008. Consequentially, changes to *GVRD Gasoline Distribution Emission Regulation Bylaw No. 1085, 2008* (Bylaw 1085) are needed to ensure fees are aligned with the fees proposed during engagement and those set out in Bylaw 1330. With the amendments to Bylaw 1085, the expected fees from dischargers will cover a share of Metro Vancouver's air quality regulatory services, while also encouraging emission reductions and leading to air quality improvements. Alternative 1 is recommended.

Attachment

1. *MVRD Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022*

References

1. [MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021 \(Bylaw 1330\)](#)
2. [Discussion Paper - Proposed Amendments to Air Quality Permit and Regulatory Fees in Metro Vancouver](#)

52608554

**METRO VANCOUVER REGIONAL DISTRICT
BYLAW NO. 1342, 2022
A Bylaw to Amend “Greater Vancouver Regional District Gasoline Distribution Emission
Regulation Bylaw No. 1085, 2008”**

WHEREAS:

- A. The Metro Vancouver Regional District has enacted the “Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008”;
- B. That Bylaw contemplates that the Board of the Metro Vancouver Regional District may establish emission regulations and fees;
- C. The Metro Vancouver Regional District has enacted the “Metro Vancouver Regional District Air Quality Management Fees Regulation Bylaw No. 1330, 2021”;
- D. The Metro Vancouver Regional District has enacted the “Greater Vancouver Regional District Gasoline Distribution Emission Regulation Bylaw No 1085, 2008”; and
- E. The Board of the Metro Vancouver Regional District wishes to amend the “Greater Vancouver Regional District Gasoline Distribution Emission Regulation Bylaw No 1085, 2008”.

NOW THEREFORE the Board of the Metro Vancouver Regional District enacts as follows:

Citation

- 1. The official citation of this bylaw is “Metro Vancouver Regional District Gasoline Distribution Emission Regulation Amending Bylaw No. 1342, 2022”.

Effective Date

- 2. This bylaw will come into effect on January 1, 2023.

Schedule

- 3. The following Schedule is attached to and forms part of this bylaw:
Schedule “A”, Air Contaminant Emission Fees.

Amendment of Bylaw

- 4. “Greater Vancouver Regional District Gasoline Distribution Emission Regulation Bylaw 1086, 2008”, as amended (in this bylaw, the “Emission Regulation”), is amended as follows:
 - (a) Section 4 is amended by striking out “Greater Vancouver Regional District” in both places and substituting “Metro Vancouver Regional District”.

(b) Section 10 is deleted and replaced with the following:

- 10. Each year, each registered operator terminal or bulk plant must pay to the District a fee of \$250 plus the total emission fee calculated in accordance with procedures approved by the district director using the air contaminant emission fee rates in Schedule A for that calendar year or portion thereof, payable by April 1 of each year, or upon registration if registration occurs after April 1 of that year.

(c) Section 11 is deleted and replaced with the following:

- 11. Each year, each registered operator of a fuel transfer vehicle must pay to the District a fee of \$250 plus \$50 per fuel transfer vehicle for that calendar year or portion thereof, payable by April 1 of each calendar year, or upon registration if registration occurs after April 1 of that year.

(d) Section 12 is deleted and replaced with the following:

- 12. Each year, each registered operator of a service station must pay to the District a fee of \$200 per service station for that calendar year or portion thereof, payable by April 1 of each calendar year, or upon registration if registration occurs after April 1 of that year.

(e) Schedule A to this bylaw is added as Schedule A to the Emission Regulation.

Read a first time this _____ day of _____, _____.

Read a second time this _____ day of _____, _____.

Read a third time this _____ day of _____, _____.

Passed and finally adopted this _____ day of _____, _____.

Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

Schedule A

Air Contaminant Emission Fees

1. “Air contaminant emission fees” (Z) for air contaminants listed in Table 1 are calculated as follows:

$$Z = A \times B$$

where,

A is the authorized discharge in tonnes of an air contaminant listed in Column 1 of Table 1, and

B is the corresponding emission fee rate for that air contaminant listed in Column 2 of Table 1.

Table 1 – Air Contaminant Emission Fee Rates for Authorized Discharges

Column 1 Air Contaminant (A)	Column 2 Emission Fee Rate (\$/tonne) (B)					
	2023	2024	2025	2026	2027	2028 and later
Photoreactive volatile organic compounds	\$146	\$169	\$191	\$214	\$237	\$260

To: Climate Action Committee

From: Arvind Saraswat, Senior Project Engineer
Esther Berube, Division Manager, Air Quality Bylaw and Regulation Development
Parks and Environment Department

Date: May 3, 2022 Meeting Date: May 13, 2022

Subject: **MVRD Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022**

RECOMMENDATION

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022*.
-

EXECUTIVE SUMMARY

Metro Vancouver regulates the discharge of air contaminants through site-specific permits and emission regulations that apply to groups of similar sources. A system of regulatory fees has been established to recover administrative costs and encourage emission reductions based on the potential health and environmental impact of air contaminants. Engagement on updates to air quality management fees took place from January to April 2021. Emails were sent to all facilities regulated under *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* (Bylaw 1087), with information about proposed increases in fees ranging from about \$500 to \$5000 in each facility's annual fees. Metro Vancouver heard no concerns from these regulated facilities. On October 29, 2021, the MVRD Board updated the fees when it adopted *MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021* (Bylaw 1330). Consequential amendments to Bylaw 1087 are needed, to update fees in alignment with the changes proposed during engagement and the updated fee rates in Bylaw 1330.

PURPOSE

To seek MVRD Board adoption of amendments to fees in the *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* (Bylaw 1087) to align with Bylaw 1330, adopted by the MVRD Board in October 2021.

BACKGROUND

At its October 29, 2021 meeting, the MVRD Board adopted Bylaw 1330 (Reference 1), which repealed and replaced *GVRD Air Quality Management Fees Regulation Bylaw No. 1083, 2008* to update Metro Vancouver's air quality permit and regulatory fees. Consequently, updates to fees are needed in Bylaw 1087, in order to maintain consistency with the fee rates set out in Bylaw 1330. This report seeks Board adoption of amendments to fees in Bylaw 1087.

RECENT UPDATES TO AIR QUALITY PERMITTING AND REGULATORY FEES

Metro Vancouver charges fees for authorized air emissions to recover the cost of its air quality regulatory services, incentivize emission reductions, and improve air quality. Fees are stipulated in an air quality management fees bylaw for individual permitted facilities and various emission regulations for industrial sectors. Emission regulations apply fixed registration fees, as well as annual administration fees that have both fixed and variable components. The variable portion of the fees are based upon the quantity and type of air contaminants authorized to be discharged.

During an engagement process from January to April 2021, Metro Vancouver sought feedback on adjusting fixed fees for inflation and increasing variable fees for emissions of air contaminants (Reference 2). Emails and invitations to webinars were sent to all facilities registered under Bylaw 1087. Metro Vancouver did not hear any concerns from these regulated facilities. Bylaw 1330 was then developed in alignment with Metro Vancouver's principles of continuous improvement, discharger pay, and cost recovery. Bylaw 1330 includes updated fees for emissions of air contaminants that reflect new information on the estimated costs of health impacts associated with various types of emissions.

With the adoption of Bylaw 1330, supporting amendments to emission regulations are needed to reflect the new fees and inflationary changes, since these fees have not increased since the bylaws were adopted in 2008. As specified in Bylaw 1330, the air contaminant emission fee rates used to calculate the variable emission fees will increase gradually until 2028.

UPDATES TO BOILERS AND PROCESS HEATERS EMISSION REGULATION BYLAW 1087

Bylaw 1087 includes fixed administrative fees and variable fees for particulate matter, nitrogen oxides (NO_x), total photoreactive VOC, and total non-photoreactive VOC. The fixed administrative fees would increase from \$200 to \$250 to reflect inflationary changes, as proposed during engagement. The proposed Amending Bylaw 1343 (Attachment 1) seeks to replace the air contaminant emission fee rates in the emission regulation to match the air contaminant emission fee rates for fine particulate matter, NO_x, photoreactive VOC, and non-photoreactive VOC in Bylaw 1330. The updated fees would take effect on January 1, 2023.

ALTERNATIVES

1. That the MVRD Board:
 - a) give first, second and third reading to *Metro Vancouver Regional District Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022*.
2. That the MVRD Board receive for information the report dated May 3, 2022, titled "MVRD Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022" and provide alternate direction to staff.

FINANCIAL IMPLICATIONS

Under Alternative 1, the proposed bylaw would update Bylaw 1087 to align with the regulatory fees in Bylaw 1330. Starting in 2023, updated regulatory costs would be recovered from emitters

authorized under Bylaw 1087, in alignment with Metro Vancouver's principles of discharger pay, continuous improvement, and cost recovery. The amendments would result in an increase ranging from about \$500 to \$5000 per facility in annual fees.

CONCLUSION

After an engagement process from January to April 2021, the Board adopted the *MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021* (Bylaw 1330) on October 29, 2021, to include updated fees for air emissions and account for inflationary changes that have not been reflected in the bylaw since 2008. Consequentially, changes to *GVRD Boilers and Process Heaters Emission Regulation Bylaw No. 1087, 2008* (Bylaw 1087) are needed to ensure fees are aligned with the fees proposed during engagement and those set out in Bylaw 1330. With the amendments to Bylaw 1087, the expected fees from dischargers will cover a share of Metro Vancouver's air quality regulatory services, while also encouraging emission reductions and leading to air quality improvements. Alternative 1 is recommended.

Attachment

1. *MVRD Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022*

References

1. [*MVRD Air Quality Management Fees Regulation Bylaw No. 1330, 2021* \(Bylaw 1330\)](#)
2. [*Discussion Paper - Proposed Amendments to Air Quality Permit and Regulatory Fees in Metro Vancouver*](#)

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**METRO VANCOUVER REGIONAL DISTRICT
BYLAW NO. 1343, 2022
A Bylaw to amend “Greater Vancouver Regional District Boilers and Process Heaters Emission
Regulation Bylaw No. 1087, 2008”**

WHEREAS:

- A. The Metro Vancouver Regional District has enacted the “Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008”;
- B. That Bylaw contemplates that the Board of the Metro Vancouver Regional District may establish emission regulations and fees;
- C. The Metro Vancouver Regional District has enacted the “Metro Vancouver Regional District Air Quality Management Fees Regulation Bylaw No. 1330, 2021”;
- D. The Metro Vancouver Regional District has enacted the “Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw 1087, 2008”; and
- E. The Board of the Metro Vancouver Regional District wishes to amend the “Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw 1087, 2008”.

NOW THEREFORE the Board of the Metro Vancouver Regional District enacts as follows:

Citation

- 1. The official citation of this bylaw is “Metro Vancouver Regional District Boilers and Process Heaters Emission Regulation Amending Bylaw No. 1343, 2022”.

Effective Date

- 2. This bylaw will come into effect on January 1, 2023.

Amendment of Bylaw

- 3. “Greater Vancouver Regional District Boilers and Process Heaters Emission Regulation Bylaw 1087, 2008”, as amended, is amended as follows:

(a) Section 12 is deleted and replaced with the following:

- 12. Each year, each registered operator of a boiler or process heater must pay to the District a fee of \$250 plus the total emission fees calculated in accordance with Appendix 1 for each calendar year or portion thereof, payable by June 30 of each calendar year, or upon registration if registration occurs after June 30 of that year.

(b) Appendix 1 is amended by deleting Table 1 and replacing with the following:

Table 1 – Air Contaminant Emission Fees per Tonne of Air Contaminant

Column 1	Column 2					
Air contaminant	Emission fee per tonne of air contaminant					
	2023	2024	2025	2026	2027	2028 and later
Fine Particulate Matter (PM _{2.5})	\$729	\$943	\$1,157	\$1,371	\$1,586	\$1,800
Nitrogen Oxides (NO _x)	\$79	\$93	\$107	\$121	\$136	\$150
Photoreactive volatile organic compounds	\$146	\$169	\$191	\$214	\$237	\$260
Non-photoreactive volatile organic compounds	\$33	\$34	\$36	\$37	\$39	\$40

(c) Section 2 of Appendix 1 is amended by adding the following subsection:

(3) For the purposes of calculating air contaminant emission fees, condensable particulate matter and filterable particulate matter are deemed to be fine particulate matter.

Read a first time this _____ day of _____, _____.

Read a second time this _____ day of _____, _____.

Read a third time this _____ day of _____, _____.

Passed and finally adopted this _____ day of _____, _____.

Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

To: MVRD Board of Directors

From: Katie Karn, Chief Election Officer

Date: May 6, 2022 Meeting Date: May 27, 2022

Subject: **Metro Vancouver Regional District Election Bylaw 1340**

RECOMMENDATION

That the MVRD Board:

- a) give first, second and third reading to *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*.
-

EXECUTIVE SUMMARY

The *Local Government Act* (LGA) permits local governments to establish certain electoral procedures by bylaw. Staff are bringing forward for the Board's consideration a new Election Bylaw to reflect recent changes to provincial legislation, in particular in relation to the mail-in ballot voting process, as well as general housekeeping amendments.

PURPOSE

To seek Board approval of the *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*, a bylaw to determine various procedures and requirements for the conduct of local government elections and other voting.

BACKGROUND

Local government elections will be held on October 15, 2022 around the province, which includes the election of Director for the Regional District's Electoral Area A. The LGA permits local governments to establish certain electoral procedures by bylaw, and staff are bringing forward for the Board's consideration a new Election Bylaw to reflect recent changes to provincial legislation, in particular in relation to the mail-in ballot process.

BYLAW PROVISIONS

This report outlines the key provisions of the proposed election bylaw.

Mail Ballot Voting

Local governments have the ability, by bylaw, to permit voting to be done by mail ballot. Historically, mail ballot voting has been limited to those who have a physical disability, illness or injury that affects their ability to vote at another voting opportunity, or to persons who expect to be absent on General Voting Day and at the time of advance voting opportunities.

Recent updates to the LGA have removed these requirements for receiving a mail ballot, and should the Board adopt the proposed bylaw, any voter may have the opportunity to apply to vote by mail. Given the pandemic, the expansion of mail ballot voting opportunities have seen a marked increase

in other jurisdictions that have conducted elections, and have been viewed as a desirable option by the electorate.

Electronic Access to Election Related Documents Authorization

The proposed bylaw includes sections to authorize the electronic access to Nomination Documents, as well as Disclosure Statements and Supplementary Reports. This authorization allows for these documents to be posted on the Metro Vancouver website, or be made available via other electronic means, providing ease of access to nomination information for the public, while increasing the transparency of the electoral process. This is a common practice in many local governments.

Bylaw Timing

Pursuant to the LGA, any changes to an election bylaw must take place at least 56 days before the first day of the nomination period, which in this case is July 4, 2022. In an effort to ensure any necessary updates to the Election Bylaw are adopted on time to take effect for the October 2022 election, this bylaw is proceeding direct to Board as the Electoral Area Committee was not scheduled to meet in May.

ALTERNATIVES

1. That the MVRD Board:
 - a) give first, second and third reading to *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*; and
 - b) pass and finally adopt *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*.
2. That the MVRD Board refer the proposed *Metro Vancouver Regional District Election Bylaw No. 1340, 2022* as presented back to staff to incorporate feedback from the MVRD Board.

FINANCIAL IMPLICATIONS

Election costs for the general local election for Electoral Area A were planned for and included in the board-approved budget and reserves. While there may be a nominal cost increase if there is an uptake in the number of voters who apply to receive a mail-in ballot package, staff do not anticipate it having a large impact on the overall election budget.

CONCLUSION

The current Election Bylaw does not reflect the current provisions of the *Local Government Act*, notably in relation to publishing election documents electronically and to permitting wider access to mail ballot voting opportunities. The proposed election bylaw includes those updated provisions, and brings the bylaw up to date. On that basis, staff recommend alternative 1.

Attachments

1. *Metro Vancouver Regional District Election Bylaw No. 1340, 2022*

METRO VANCOUVER REGIONAL DISTRICT
BYLAW NO. 1340, 2022

A Bylaw to provide for the determination of various procedures for the conduct of local government elections and other voting

WHEREAS:

- A. the Local Government Act authorizes that the Board of Directors of the Metro Vancouver Regional District may by bylaw determine various procedures and requirements for the conduct of local government elections and other voting; and
- B. the Board of Directors of the Metro Vancouver Regional District wishes to establish various procedures and requirements under that authority;

NOW THEREFORE the Board of the Metro Vancouver Regional District enacts as follows:

Citation

- 1. The official citation of this bylaw is “Metro Vancouver Regional District Election Bylaw No. 1340, 2022”. This bylaw may be cited as “Election Bylaw”.

Repeal of Bylaw

- 2. “Greater Vancouver Regional District Elections and Other Voting Procedures Bylaw Number 1146, 2011” is hereby repealed.

Definitions

- 3. In this bylaw:

“Act” means the *Local Government Act*, RSBC 2015;

“Board” means the Board of Directors of the Metro Vancouver Regional District;

“Chief Election Officer” means the person appointed by the Board as the Chief Election Officer pursuant to the *Local Government Act*, or the Deputy Chief Election Officer in the absence of the Chief Election Officer;

“Elector” means a resident elector or property elector of Electoral Area A, as defined under the Act.

“Electoral Area A” means the part of the regional district not within the boundaries of a city, district, island, town or village municipality, or any land, foreshore, or land covered by water that may be hereafter incorporated within the boundaries of the municipality; and

“Regional District” means the Metro Vancouver Regional District.

Application

4. This bylaw applies to elections and other voting held within Electoral Area A pursuant to the Act.

Voting Day Registration

5.
 - (a) For the purposes of all elections and other voting, electors in Electoral Area A who wish to vote are required to register at the time of voting; and
 - (b) Registration as an elector under subsection 6. (a) is effective only for the election or other voting for which the voting is being conducted at that time.

Additional General Voting Opportunities

6. The Chief Election Officer is authorized to establish additional voting opportunities for general voting day for each election, or other voting, and to designate the voting places and voting hours for the general voting opportunities, within the limits set out in the Act.

Required Advance Voting Opportunities

7. Two (2) advance voting opportunities will be held for an election by voting, or other voting, as follows:
 - (a) one (1) on the 10th day before general voting day; and
 - (b) one (1) on the 7th day before general voting day.

Establishment of Additional Advance Voting Opportunities

8. The Chief Election Officer is authorized to establish dates for additional voting opportunities, in advance of general voting day, and to designate the voting places and set the voting hours for these additional advance voting days.

Mail Ballot Voting

9.
 - (a) As authorized under the Act, voting and elector registration may be done by mail.
 - (b) The following procedures for voting and registration must apply:
 - i. sufficient record will be kept by the Chief Election Officer so that challenges of the elector's right to vote may be made in accordance with the intent of the Act; and
 - ii. a person exercising the right to vote by mail under the provisions of the Act may be challenged in accordance with Section 126 of the Act.
 - (c) The Chief Election Officer is authorized to establish time limits in relation to voting by mail ballot.
 - (d) A mail ballot must be received by the Chief Election Officer before the close of voting on General Voting Day, in order to be counted for an election.

Electronic Access to Nomination Documents Authorization

10. As authorized by Section 89(8) of the Act, public access to nomination documents may be made available via the internet or other electronic means.

Electronic Access to Disclosure Statements and Supplementary Reports Authorization

- 11. As authorized by Section 59(1) of the *Local Elections Campaign Financing Act*, public access to disclosure statements and signed declarations, and supplementary reports and signed declarations, may be made available via the internet or other electronic means.

Determination of Results If Tie Vote After Judicial Recount

- 12. In the event of a tie vote after a judicial recount, the tie vote will be resolved by conducting a lot in accordance with the Act.

Interpretation

- 13. If any portion of this bylaw is held to be invalid by a court of competent jurisdiction, the invalid portion will be severed and the remainder of the bylaw will remain in effect.

Read a first, second and third time this _____ day of _____, _____.

Passed and finally adopted this _____ day of _____, _____.

Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

COMMITTEE INFORMATION ITEMS AND DELEGATION SUMMARIES

Metro Vancouver Regional District
Board Meeting Date – Friday, May 27, 2022

This information item, listing recent information received by committee, is provided for the MVRD Board's information. Please access a complete PDF package [here](#).

Indigenous Committee – May 11, 2022

Delegation Summaries:

No delegations presented

Information Items:

5.3 Quarterly Report on Reconciliation Activities

Performance and Audit Committee – May 12, 2022

Delegation Summaries:

No Executive Summary provided

Information Items:

5.1 Metro Vancouver Quarterly Financial Report – March 31, 2022

5.2 Improving Metro Vancouver Financial Standing – Update

Finance Committee – May 12, 2022

Delegation Summaries:

3.1 Roderick V. Louis

Subject: TransLink's 2022 Investment Plan and Proposed Increase in Borrowing Limit

Climate Action Committee – May 13, 2022

Delegation Summaries:

3.1 Dr. Larry Barzelai, Chair of the BC branch of the Canadian Association of the Physicians for the Environment

Subject: Proposed Tilbury LNG Plant Expansion

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