

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT (GVS&DD)  
BOARD OF DIRECTORS**

**REGULAR BOARD MEETING**

**Friday, October 30, 2020**

**9:00 A.M.**

**28<sup>th</sup> Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia**

[Membership and Votes](#)

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

**A. ADOPTION OF THE AGENDA**

**1. October 30, 2020 Regular Meeting Agenda**

That the GVS&DD Board adopt the agenda for its regular meeting scheduled for October 30, 2020 as circulated.

**B. ADOPTION OF THE MINUTES**

**1. October 2, 2020 Regular Meeting Minutes**

That the GVS&DD Board adopt the minutes for its regular meeting held October 2, 2020 as circulated.

**2. October 21, 2020 Metro Vancouver Board Budget Meeting Minutes**

That the GVS&DD Board adopt the minutes for the joint meeting of the MVRD, MVHC, GVWD and GVS&DD Boards held October 21, 2020, as circulated.

**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.*

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

## 1. LIQUID WASTE COMMITTEE REPORTS

### 1.1 Grant Funding Application for Effluent Heat for Renewable Natural Gas Project

That the GVS&DD Board endorse the grant funding application of \$3,926,000 for the Lulu Island Wastewater Treatment Plant Effluent Heat for Renewable Natural Gas Project through the CleanBC Communities Fund.

## F. ITEMS REMOVED FROM THE CONSENT AGENDA

## G. REPORTS NOT INCLUDED IN CONSENT AGENDA

### 1. BUDGET REPORTS

**Added**

#### 1.1 GVS&DD 2021 Budget and 2021 – 2025 Financial Plan

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

That the GVS&DD Board:

- a) approve the 2021 Annual Budget and endorse the 2021 - 2025 Financial Plan as shown in Attachment 1 of the report dated October 22, 2020, titled "GVS&DD 2020 Budget and 2021 - 2025 Financial Plan", in the following schedules:
  - Revenue and Expenditure Summary
  - Liquid Waste Services
  - Capital Programs Project Totals – Liquid Waste Services
  - Solid Waste Services
  - Capital Programs Project Details – Solid Waste Services
- b) approve the 2021 Reserve Applications as shown in Attachment 2 of the report dated October 22, 2020, titled "GVS&DD 2021 Budget and 2021 - 2025 Financial Plan".

## 2. ZERO WASTE COMMITTEE REPORTS

### 2.1 GVS&DD Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020

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

*[Recommendation c): 2/3 weighted majority vote.]*

That the GVS&DD Board:

- a) approve the following amendments to the Tipping Fee Bylaw effective January 1, 2021:
  - i. Tipping fees to change as follows:
    - i. Tipping fees for garbage (per tonne):
      - Municipal garbage \$117
      - Up to 1 tonne \$151
      - 1 tonne to 9 tonnes \$129
      - 9 tonnes and over \$103
    - ii. Generator levy at \$48 per tonne (included in Tipping Fee);

- b) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020*; and
- c) pass and finally adopt *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020*.

**H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN**

**I. OTHER BUSINESS**

**1. GVS&DD Board Committee Information Items and Delegation Summaries**

**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.*

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

**M. ADJOURNMENT/CONCLUSION**

That the GVS&DD Board adjourn/conclude its regular meeting of October 30, 2020.

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
BOARD OF DIRECTORS**

Minutes of the Regular Meeting of the Greater Vancouver Sewerage and Drainage District (GVS&DD) Board of Directors held at 10:57 a.m. on Friday, October 2, 2020 in the 28<sup>th</sup> Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia.

**MEMBERS PRESENT:**

Burnaby, Chair, Director Sav Dhaliwal  
North Vancouver City, Vice Chair Director  
Linda Buchanan  
Anmore, Director John McEwen  
Burnaby, Director Pietro Calendino\*  
Burnaby, Director Mike Hurley\*  
Coquitlam, Director Craig Hodge  
Coquitlam, Director Richard Stewart\*  
Delta, Director George Harvie  
Delta, Director Bruce McDonald\*  
Electoral Area A, Director Jen McCutcheon\*  
Langley City, Director Val van den Broek\*  
Langley Township, Director Jack Froese\*  
Langley Township, Director Kim Richter\*  
Maple Ridge, Director Mike Morden\*  
New Westminster, Director Jonathan Coté\*  
North Vancouver District, Director Lisa Muri\*  
Pitt Meadows, Director Bill Dingwall\*  
Port Coquitlam, Director Brad West\*  
Port Moody, Director Rob Vagramov

Richmond, Director Malcolm Brodie\*  
Richmond, Director Harold Steves\*  
Surrey, Director Linda Annis  
Surrey, Director Doug Elford\*  
Surrey, Director Laurie Guerra\*  
Surrey, Director Doug McCallum\*  
Surrey, Director Mandeep Nagra\*  
Surrey, Director Allison Patton\*  
Vancouver, Director Christine Boyle\*  
Vancouver, Director Adriane Carr  
Vancouver, Director Melissa De Genova\*  
Vancouver, Director Lisa Dominato\*  
Vancouver, Director Colleen Hardwick\*  
Vancouver, Alternate Director Pete Fry\* for  
Kennedy Stewart  
Vancouver, Director Michael Wiebe  
West Vancouver, Director Mary-Ann Booth\*  
White Rock, Director Darryl Walker\*  
Commissioner Jerry W. Dobrovolny (Non-voting  
member)

**MEMBERS ABSENT:**

None

**STAFF PRESENT:**

Genevieve Lanz, Legislative Services Coordinator, Board and Information Services  
Chris Plagnol, Corporate Officer

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

**A. ADOPTION OF THE AGENDA**

**1. October 2, 2020 Regular Meeting Agenda**

**It was MOVED and SECONDED**

That the GVS&DD Board adopt the agenda for its regular meeting scheduled for October 2, 2020 as circulated.

**CARRIED**

**B. ADOPTION OF THE MINUTES**

**1. July 31, 2020 Regular Meeting Minutes**

**It was MOVED and SECONDED**

That the GVS&DD Board adopt the minutes for its regular meeting held July 31, 2020 as circulated.

**CARRIED**

**C. DELEGATIONS**

No items presented.

**D. INVITED PRESENTATIONS**

No items presented.

**E. CONSENT AGENDA**

**It was MOVED and SECONDED**

That the GVS&DD Board adopt the recommendations in the following items as presented in the October 2, 2020 GVS&DD Board Consent Agenda:

- 1.1 Strategy for Review and Update of the *Integrated Liquid Waste and Resource Management Plan*
- 2.1 Waste-to-Energy Facility Proposed Operational Certificate Amendment Feedback
- 2.2 CleanBC Plastics Action Plan Implementation Update
- 3.1 Capital Infrastructure Project Governance

**CARRIED**

The items and recommendations referred to above are as follows:

**1.1 Strategy for Review and Update of the *Integrated Liquid Waste and Resource Management Plan***

Report dated September 24, 2020 from Tom Sadleir, Program Manager, Community Engagement, External Relations and Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services, seeking GVS&DD Board authorization to forward the *Integrated Liquid Waste and Resource Management Plan* engagement program for review to the Minister of Environment and Climate

Change Strategy for approval, and seeking authorization to initiate engagement upon receipt of approval.

*Recommendation:*

That the GVS&DD Board:

- a) authorize staff to forward the engagement program for the review and update of the *Integrated Liquid Waste and Resource Management Plan*, as described in the report dated September 4, 2020, titled “Strategy for Review and Update of the *Integrated Liquid Waste and Resource Management Plan*,” to the Minister of Environment and Climate Change Strategy for approval; and,
- b) authorize staff to initiate engagement upon receipt of approval from the Minister of Environment and Climate Change Strategy.

*Adopted on Consent*

**2.1 Waste-to-Energy Facility Proposed Operational Certificate Amendment Feedback**

Report dated September 21, 2020 from Paul Henderson, General Manager, Solid Waste Services, together with report dated September 11, 2020 from Brent Kirkpatrick, Lead Senior Engineer and Stephanie Liu, Communications and Education Coordinator, Solid Waste Services, informing the GVS&DD Board of feedback received regarding the waste-to-energy facility proposed Operational Certificate amendment.

*Recommendation:*

That the GVS&DD Board receive for information the report dated September 21, 2020, titled “Waste-to-Energy Facility Proposed Operational Certificate Amendment Feedback”.

*Adopted on Consent*

**2.2 CleanBC Plastics Action Plan Implementation Update**

Report dated September 18, 2020 from the Zero Waste Committee, together with report dated September 10, 2020 from Andrew Doi, Environmental Planner and Karen Storry, Senior Engineer, Solid Waste Services, seeking GVS&DD Board authorization to write a letter to the Minister of Environment and Climate Change Strategy requesting clarification on potential provincial bans on single-use plastics.

*Recommendation:*

That the GVS&DD Board write a letter to the Minister of Environment and Climate Change Strategy requesting clarification on potential provincial bans on single-use plastics, including anticipated scope and timing of such bans.

*Adopted on Consent*

**3.1 Capital Infrastructure Project Governance**

Report dated September 18, 2020 from Jerry W. Dobrovolsky, Commissioner/Chief Administrative Officer and Cheryl Nelms, General Manager, Project Delivery, providing the GVS&DD Board with an update on the implementation of recommendations regarding the delivery of capital projects.

*Recommendation:*

That the GVS&DD Board receive for information the report dated September 18, 2020, titled "Capital Infrastructure Project Governance".

*Adopted on Consent*

**F. ITEMS REMOVED FROM THE CONSENT AGENDA**

No items presented.

**G. REPORTS NOT INCLUDED IN CONSENT AGENDA**

No items presented.

**H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN**

No items presented.

**I. OTHER BUSINESS**

**1. GVS&DD Board Committee Information Items and Delegation Summaries**

**It was MOVED and SECONDED**

That the GVS&DD Board receive for information the GVS&DD Board Committee Information Items and Delegations Summaries, dated October 2, 2020.

**CARRIED**

**J. BUSINESS ARISING FROM DELEGATIONS**

No items presented.

**K. RESOLUTION TO CLOSE MEETING**

**It was MOVED and SECONDED**

That the GVS&DD Board close its regular meeting scheduled for October 2, 2020 pursuant to the *Community Charter* provisions, Section 90 (1) (e) and (g) 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:

- (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
- (g) litigation or potential litigation affecting the regional district."

**CARRIED**

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

No items presented.

**M. ADJOURNMENT/CONCLUSION**

**It was MOVED and SECONDED**

That the GVS&DD Board adjourn its regular meeting of October 2, 2020.

**CARRIED**

(Time: 10:59 a.m.)

CERTIFIED CORRECT

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Chris Plagnol, Corporate Officer

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Sav Dhaliwal, Chair



# METRO VANCOUVER BOARD BUDGET WORKSHOP

Minutes of the Regular Joint Meeting of the Metro Vancouver Regional District (MVRD), the Greater Vancouver Water District (GVWD), the Greater Vancouver Sewerage and Drainage District (GVS&DD), and the Metro Vancouver Housing Corporation (MVHC) Boards of Directors held at 9:01 a.m. on Wednesday, October 21, 2020 in the 28<sup>th</sup> Floor Boardroom, 4730 Kingsway, Burnaby, British Columbia.

## MEMBERS PRESENT:

Burnaby, Chair, Director Sav Dhaliwal  
North Vancouver City, Vice Chair Director  
Linda Buchanan\*

Anmore, Director John McEwen  
Belcarra, Director Carolina Clark  
Bowen Island, Director David Hocking\*  
Burnaby, Director Pietro Calendino\*  
Burnaby, Director Mike Hurley  
Coquitlam, Director Craig Hodge\*  
Coquitlam, Director Richard Stewart\*  
Delta, Alternate Director Dylan Kruger for  
George Harvie\*  
Delta, Director Bruce McDonald\*  
Electoral Area A, Director Jen McCutcheon\*  
Langley City, Director Val van den Broek\*  
Langley Township, Director Jack Froese\*  
Langley Township, Director Kim Richter\*  
(arrived at 10:07 a.m.)  
Lions Bay, Director Ron McLaughlin\*  
Maple Ridge, Director Mike Morden\*  
New Westminster, Director Jonathan Coté\*  
North Vancouver District, Director Lisa Muri\*  
Pitt Meadows, Director Bill Dingwall\*  
Port Coquitlam, Director Brad West

Port Moody, Director Rob Vagramov\* (arrived  
at 9:09 a.m.)  
Richmond, Director Malcolm Brodie\*  
Richmond, Director Harold Steves\*  
Surrey, Director Linda Annis\*  
Surrey, Director Doug Elford\*  
Surrey, Director Laurie Guerra  
Surrey, Director Doug McCallum\*  
Surrey, Alternate Director Brenda Locke for  
Mandeep Nagra\*  
Surrey, Director Allison Patton  
Tsawwassen, Director Ken Baird\*  
Vancouver, Director Christine Boyle\*  
Vancouver, Director Adriane Carr\*  
Vancouver, Director Melissa De Genova\* (arrived  
at 9:35 a.m.)  
Vancouver, Director Lisa Dominato\* (arrived  
at 9:13 a.m., and departed at 11:56 a.m.)  
Vancouver, Director Colleen Hardwick\* (arrived  
at 9:51 a.m.)  
Vancouver, Alternate Director Pete Fry for  
Kennedy Stewart\*  
Vancouver, Director Michael Wiebe\*  
West Vancouver, Director Mary-Ann Booth\*  
(arrived at 9:12 a.m.)  
White Rock, Director Darryl Walker\*

## MEMBERS ABSENT:

None

## STAFF PRESENT:

Jerry W. Dobrovolsky, Chief Administrative Officer  
Lauren Cichon, Legislative Services Coordinator, Board and Information Services  
Klara Kutakova, Deputy Corporate Officer

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

The Chair called the meeting to order at 9:01 a.m.

## 1. PRESENTATION

### 1.1 2021 Budget and 2021-2025 Financial Plan – Metro Vancouver Districts and Housing Corporation

Jerry Dobrovolny, Chief Administrative Officer/Commissioner and Dean Rear, Chief Financial Officer/General Manager, Financial Services Department, introduced the 2021 Metro Vancouver Districts and Housing Corporation Budget and 2021 – 2025 Financial Plan highlighting overall household impacts for 2021 – 2025, historic and projected population growth, and operating and capital budget expenditures and revenues.

9:09 a.m. Director Vagramov arrived at the meeting.

9:12 a.m. Director Booth arrived at the meeting.

9:13 a.m. Director Dominato arrived at the meeting.

Presentation material titled “2021-2025 Financial Plan Overview” is retained with the October 21, 2020 Board Budget Workshop agenda.

9:35 a.m. Director De Genova arrived at the meeting.

9:51 a.m. Director Hardwick arrived at the meeting.

10:07 a.m. Director Richter arrived at the meeting.

Members discussed a temporary relaxation of the amortization period as outlined in the *Financial Management Policy* by temporarily changing it from 15 years to 30 years.

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

That the MVRD Board direct staff to adopt a 30-year amortization for borrowing for 2021 and 2022 only and then return to a 15-year amortization period as per the *Financial Management Policy*.

#### **Recorded Vote**

At the request of the Chair, a recorded vote was conducted.

Director	Number of Votes	
	For	Against
Linda Annis		4
Ken Baird	1	
Mary-Ann Booth	3	
Christine Boyle	5	
Malcolm Brodie		5
Linda Buchanan	3	
Pietro Calendino	4	
Adriane Carr		5

Carolina Clark	1	
Jonathan Côté	4	
Melissa De Genova	5	
Sav Dhaliwal	4	
Bill Dingwall		1
Lisa Dominato		4
Doug Elford	5	
Jack Froese		3
Laurie Guerra		4
Colleen Hardwick		4
Dylan Kruger	3	
David Hocking		1
Craig Hodge		3
Mike Hurley	4	
Doug McCallum		5
Jen McCutcheon	1	
Bruce McDonald	3	
John McEwen	1	
Ron McLaughlin	1	
Mike Morden	5	
Lisa Muri		5
Brenda Locke		4
Allison Patton		4
Kim Ritcher		3
Harold Steves		5
Pete Fry		5
Richard Stewart		4
Rob Vagramov		2
Val van den Broek	2	
Darryl Walker		1
Brad West	3	
Michael Wiebe		4
	<b>For</b>	<b>Against</b>
Total Votes	58	76

**DEFEATED**

### **Liquid Waste Services**

Members were provided an overview of the 2021 Liquid Waste Services Budget and 2021-2025 Financial Plan, highlighting performance metrics, continuous improvement, operating and capital expenditures, 2021 – 2025 major projects, financial plan summaries, and concerns about the Ministry of Environment increase of wastewater treatment plant fee in 2021.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) endorse the 2021 Budget and 2021-2025 Financial Plan for Liquid Waste Services, as presented; and
- b) direct staff to prepare the necessary budget information to be presented at the October 30, 2020 GVS&DD Board meeting for consideration.

That the GVS&DD Board Chair write a letter to the Honourable George Heyman, Minister of Environment and Climate Change Strategy, requesting that the Minister consider the deferral or graduated application of the \$2,479,807 fee increase in 2021 for Metro Vancouver's five wastewater treatment plant authorizations.

**CARRIED**

Director Richter voted in the negative.

**Water Services**

Members were provided with an overview of the 2021 Water Services Budget and 2021-2025 Financial Plan, highlighting performance metrics, continuous improvement, 2021 – 2025 major projects, 2021-2025 financial plan summary, and proposed adjusted pricing approach.

Members requested additional information on the proposed adjusted pricing approach of the peak and non-peak water rates to be provided before the October 30, 2020 Board Meeting.

11:56 a.m. Director Dominato departed the meeting.

**It was MOVED and SECONDED**

That the GVWD Board:

- a) endorse the 2021 Budget and 2021-2025 Financial Plan for Water Services, as presented;
- b) direct staff to calculate the water rates applying the 2021 increase wholly to the peak rate; and,
- c) direct staff to prepare the necessary budget information to be presented at the October 30, 2020 GVWD Board meeting for consideration.

**CARRIED**

Director Richter voted in the negative.

**Solid Waste Services**

Members were provided with an overview of the 2021 Solid Waste Services Budget and 2021 – 2025 Financial Plan, highlighting performance metrics, continuous improvement, tipping fees, and capital program highlights.

**It was MOVED and SECONDED**

That the GVS&DD Board:

- a) endorse the 2021 Budget and 2021-2025 Financial Plan for Solid Waste Services, as presented; and
- b) direct staff to prepare the necessary budget information to be presented at the October 30, 2020 GVS&DD Board meeting for consideration.

**CARRIED**

**Metro Vancouver Housing Corporation**

Members were provided an overview of the 2021 MVHC Budget and 2021 – 2025 Financial Plan, outlining performance metrics, and operating and capital highlights.

**It was MOVED and SECONDED**

That the MVHC Board:

- a) endorse the 2021 Budget and 2021-2025 Financial Plan for Metro Vancouver Housing Corporation, as presented; and
- b) direct staff to prepare the necessary budget information to be presented at the October 30, 2020 MVHC Board meeting for consideration.

**CARRIED**

**Metro Vancouver Regional District Services**

Members were provided an overview of the MVRD 2021 Budget, highlighting MVRD functions and the financial plan summary.

**It was MOVED and SECONDED**

That the MVRD Board:

- a) endorse the 2021 Budget and 2021-2025 Financial Plan for the Regional District Service Areas, as presented;
- b) endorse the 2021 Budget and 2021-2025 Financial Plan for the Electoral Area A Service Area, as presented;
- c) endorse the 2021 Budget and 2021-2025 Financial Plan for the Sasamat Fire Protection Service, as presented; and
- d) direct staff to prepare the necessary budget information to be presented at the October 30, 2020 Metro Vancouver Regional District Board meeting for consideration.

**CARRIED**

## **2. REPORTS**

### **2.1 2021-2025 Financial Plan – Metro Vancouver Districts and Housing Corporation**

Report dated October 14, 2020 from Jerry Dobrovlny, Commissioner/Chief Administrative Officer and Dean Rear, Chief Financial Officer/General Manager – Financial Services Department, presenting the 2021 Budget and 2021-2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation for consideration.

**It was MOVED and SECONDED**

That the Board endorse the 2021 Budget and 2021 - 2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation, as presented, and direct staff to prepare the necessary budget information to be presented at the October 30, 2020 Metro Vancouver Districts and Housing Corporation Board meetings for consideration.

**Motion Withdrawn**

The aforementioned motion was deemed unnecessary in light of the endorsement motions passed earlier in the meeting; consequently, withdrawal of the motion was in order. With consent of the Board, the aforementioned motion was withdrawn.

**It was MOVED and SECONDED**

That the MVRD, GVWD, GVS&DD, and MVHC Boards receive the report titled "2021-2025 Financial Plan – Metro Vancouver Districts and Housing Corporation" dated October 14, 2020 for information.

**CARRIED**

**3. REFERENCE MATERIAL**

**3.1 2021 – 2025 Financial Plan – Standing Committee Reports**

**4. Q&A/COMMENTS FROM THE PUBLIC**

Chair Dhaliwal asked three times if there were any members of the public wishing to speak to the proposed Metro Vancouver Districts and Housing Corporation Budgets. No persons stepped forward.

**5. ADJOURNMENT**

The Chair declared the meeting adjourned at 12:41 p.m.

CERTIFIED CORRECT

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Klara Kutakova, Deputy Corporate Officer

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Sav Dhaliwal, Chair

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To: Liquid Waste Committee

From: Jeff Carmichael, Division Manager, Business Development, Liquid Waste Services

Date: October 5, 2020 Meeting Date: October 15, 2020

Subject: **Grant Funding Application for Effluent Heat for Renewable Natural Gas Project**

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**RECOMMENDATION**

That the GVS&DD Board endorse the grant funding application of \$3,926,000 for the Lulu Island Wastewater Treatment Plant Effluent Heat for Renewable Natural Gas Project through the CleanBC Communities Fund.

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**EXECUTIVE SUMMARY**

The proposed Lulu Island Wastewater Treatment Plant (LIWWTP) Effluent Heat for Renewable Natural Gas project will reduce regional greenhouse gas emissions and generate ongoing revenues, in support of *Climate 2050* and *Integrated Liquid Waste and Resource Recovery Plan* goals. The project will install effluent heat recovery equipment that will displace on-site biogas use. Displaced biogas will instead be cleaned and sold to FortisBC as renewable natural gas (RNG), for use throughout the region, reducing regional greenhouse gas emissions. This grant application for \$3,926,000 from the CleanBC Communities Fund will help fund the design and construction of the project.

**PURPOSE**

To obtain GVS&DD Board endorsement of an application to the CleanBC Communities Fund, to partially fund the design and construction of the Lulu Island Wastewater Treatment Plant Effluent Heat for Renewable Natural Gas project.

**BACKGROUND**

The proposed LIWWTP Effluent Heat for Renewable Natural Gas project will involve the installation of effluent heat recovery equipment to pre-heat water going to boilers that provide heat to plant systems and buildings. This will reduce biogas use for plant heating needs. Biogas will instead be cleaned to pipeline quality and sold to FortisBC as RNG under an existing contract, generating revenues. The RNG will be sold throughout the region, reducing regional greenhouse gas emissions by approximately 1,000 tonnes per year for the entire project life.

A feasibility study was completed in early 2020. The project will contribute to Metro Vancouver's *Climate 2050* goals. The project also aligns with the *Board Strategic Plan* and *Integrated Liquid Waste and Resource Management Plan*.

The 2021 capital plan, which the Board will consider in October, includes funding for this project. If approved, design of the LIWWTP Effluent Heat for Renewable Natural Gas project will commence in 2021. Construction and commissioning of the project is anticipated to be completed by 2025.

The CleanBC Communities Fund is a collaboration between the B.C. Ministry of Municipal Affairs and Housing and the Ministry of Environment and Climate Change Strategy. The fund is a component of the B.C. government's CleanBC plan, which strives to push British Columbia to a cleaner, better future.

with a low carbon economy that creates opportunities for all while protecting our clean air, land and water. The fund will provide funding for infrastructure projects that support the management of renewable energy, access to clean transportation, improved energy efficiency of buildings and the generation of clean energy.

### **FUNDING REQUEST**

The LIWWTP Effluent Heat for Renewable Natural Gas grant application to the CleanBC Communities Fund is to partially fund the design and construction tentatively planned to commence in 2021. Staff estimate the total cost of the project to be \$10 million.

A life-cycle business case analysis has been undertaken. The project is anticipated to have a cash shortfall of \$3,926,000 under current terms and conditions. Therefore, this amount is being requested, which will cause the project to break even financially if grant funding is received. If Metro Vancouver receives the grant, GVS&DD is required to commit to and fund remaining costs and any potential overages. Metro Vancouver funding for the LIWWTP Effluent Heat for Renewable Natural Gas project will be considered by GVS&DD as part of the 2021 Liquid Waste Capital Budget.

### **ALTERNATIVES**

1. That the GVS&DD Board endorse the grant funding application of \$3,926,000 for the Lulu Island Wastewater Treatment Plant Effluent Heat for Renewable Natural Gas Project through the CleanBC Communities Fund.
2. That the GVS&DD Board receive for information the report dated October 5, 2020, titled "Grant Funding Application for Effluent Heat for Renewable Natural Gas Project" and provide alternate direction to staff.

### **FINANCIAL IMPLICATIONS**

If the GVS&DD Board approves Alternative 1, the funds included in the Liquid Waste Capital Budget will be used as Metro Vancouver's contribution toward this project. The overall expenditures for this project are included in the proposed 2021 Liquid Waste Capital Budget and any grant received from the CleanBC Communities Fund will offset future expenditures for the project.

If the GVS&DD Board approves Alternative 2, there will be no immediate financial implications. Staff will continue to bring forward requests to fund the LIWWTP Effluent Heat for Renewable Natural Gas project through the regular budgeting process.

### **CONCLUSION**

Planning has begun for the LIWWTP Effluent Heat for Renewable Natural Gas project, which will create revenues and reduce regional emissions. An opportunity has arisen to request funding to partially fund and advance the project from the CleanBC Communities Fund. A requirement of the grant application is a resolution from the approving body supporting this project.

Staff recommend Alternative 1.



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To: GVS&DD Board of Directors

From: Dean Rear, General Manager, Financial Services/Chief Financial Officer

Date: October 22, 2020 Meeting Date: October 30, 2020

Subject: **GVS&DD 2021 Budget and 2021 - 2025 Financial Plan**

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**RECOMMENDATION**

That the GVS&DD Board:

- a) approve the 2021 Annual Budget and endorse the 2021 - 2025 Financial Plan as shown in Attachment 1 of the report dated October 22, 2020, titled "GVS&DD 2020 Budget and 2021 - 2025 Financial Plan", in the following schedules:
    - Revenue and Expenditure Summary
    - Liquid Waste Services
    - Capital Programs Project Totals – Liquid Waste Services
    - Solid Waste Services
    - Capital Programs Project Details – Solid Waste Services
  - b) approve the 2021 Reserve Applications as shown in Attachment 2 of the report dated October 22, 2020, titled "GVS&DD 2021 Budget and 2021 - 2025 Financial Plan".
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**EXECUTIVE SUMMARY**

Following the planning process outlined at the June 5<sup>th</sup> Board Budget Workshop, the GVS&DD 2021 Annual Budget and 2021 - 2025 Financial Plan is now being brought forward to the Board for consideration and approval. The financial plan has been developed based on a detailed budgeting process that is designed to forecast anticipated future revenue requirements to cover operating expenditures, capital expenditures and debt servicing costs over the next five years.

Also being brought forward is a request to authorize the application of 2021 reserve funds which requires the approval of the GVS&DD Board pursuant to the Board's *Operating, Discretionary, and Statutory Reserves Policy*.

Staff recommend approving the GVS&DD 2021 Annual Budget and 2021 - 2025 Financial Plan as presented.

**PURPOSE**

To consider and approve the 2020 GVS&DD Annual Budget for Liquid Waste Services and Solid Waste Services and endorse the GVS&DD 2021 - 2025 Financial Plan.

**BACKGROUND**

A Board Budget Workshop was held on June 5<sup>th</sup> with the objective to seek direction for the preparation of the 2021 - 2025 Financial Plan. The workshop outlined the principles that guide the work of Metro Vancouver as an organization, the current 2020 - 2024 Financial Plan, the implications of the COVID-19 pandemic, the tools that can be used to make budget adjustments, and a proposed approach for the 2021 - 2025 Financial Plan.

In October the 2021 budgets and five year financial plans for Liquid Waste Services and Solid Waste Services were presented separately to the Liquid Waste Committee and to the Zero Waste Committee for consideration and endorsement and are included in Attachment 1. On October 21, 2020 these budgets were also presented at the Board Budget Workshop and are summarized in the report titled “2021 - 2025 Financial Plan – Metro Vancouver Districts and Housing Corporation” (Attachment 3).

The GVS&DD 2021 Annual Budget and 2021 - 2025 Financial Plan are now being brought forward to the Board for consideration and approval. Also being brought forward is a request to authorize the application of 2021 reserve funds which requires the approval of the GVS&DD Board pursuant to the Board’s *Operating, Discretionary, and Statutory Reserves Policy* (Attachment 2).

### **BOARD BUDGET APPROVAL REQUIREMENTS**

Unlike the *Local Government Act* and the *Community Charter* which requires Regional Districts and Municipalities in British Columbia to annually approve by bylaw a financial plan for a five year period, multi-year financial plans are not required under *Greater Vancouver Sewerage and Drainage District Act*. The *GVS&DD Act* only requires an annual budget to be approved that sets rates, apportions costs and applies reserves to meet the expenditures and financial obligations of the GVS&DD.

However, in accordance with Metro Vancouver’s policies that adhere to long term financial planning principles, this report brings forward for the Board’s consideration a five year financial plan for the years 2021 - 2025. The financial plan has been developed based on a detailed budgeting process that is designed to provide member jurisdictions with anticipated rates to cover operating expenditures, capital expenditures and debt servicing costs over the next five years. This information is essential in supporting Metro Vancouver’s overall budgeting process, but also provides critical information to member jurisdictions that is used in preparing individual member jurisdiction financial plans.

### **ALTERNATIVES**

1. That the GVS&DD Board:
  - a) approve the 2021 Annual Budget and endorse the 2021 - 2025 Financial Plan as shown in Attachment 1 of the report dated October 22, 2020, titled “GVS&DD 2021 Budget and 2021 - 2025 Financial Plan”, in the following schedules:
    - Revenue and Expenditure Summary
    - Liquid Waste Services
    - Capital Programs Project Totals – Liquid Waste Services
    - Solid Waste Services
    - Capital Programs Project Details – Solid Waste Services
  - b) approve the 2021 Reserve Applications as shown in Attachment 2 of the report dated October 22, 2020, titled “GVS&DD 2021 Budget and 2021 - 2025 Financial Plan”.
2. That the Board provide alternative direction as appropriate.

### **FINANCIAL IMPLICATIONS**

If the Board approves alternative one, the 2021 Annual Budget will be approved as presented and authority will be provided to undertake the Liquid Waste Services and Solid Waste Services work plans presented in the budget reports. The 2021 to 2025 Financial Plan for Liquid Waste Services and Solid Waste Services will also be endorsed and will provide greater certainty for budget planning in future years, as well as improved information to the public and to member jurisdictions on anticipated budgets and future rate impacts.

Under alternative two, the Board may wish to amend the 2021 budget and approve the budget and financial plan as amended. Under the GVS&DD Act, the Board is required to adopt a budget on an annual basis to ensure the ongoing financial sustainability of the Corporation. Member jurisdictions rely on receiving GVS&DD rate information in late October or early November of each year to inform member jurisdictions in the preparation of their municipal budgets and five year financial plans.

### **SUMMARY / CONCLUSION**

The 2021 Revenue and Expenditure Budgets and the 2021 Reserve Applications for the GVS&DD require Board approval. Endorsing the GVS&DD 2021 - 2025 Financial Plan aligns with Metro Vancouver's financial planning practices and concludes the administrative process of the 2021 budget development cycle. Staff recommend approving the GVS&DD 2021 Annual Budget and endorsing the 2021 - 2025 Financial Plan as presented in alternative one.

### **Attachments**

1. GVS&DD 2021 - 2025 Financial Plan
2. 2021 Reserve Applications
3. "2021 - 2025 Financial Plan – Metro Vancouver Districts and Housing Corporation", dated October 26, 2020.

### **References**

1. [Metro Vancouver Board Budget Workshop Agenda, October 21, 2020](#)

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METRO VANCOUVER DISTRICTS  
REVENUE AND EXPENDITURE SUMMARY  
2021-2025 FINANCIAL PLAN

	2020	2021	%	2022	%	2023	%	2024	%	2025	%
	BUDGET	BUDGET	CHANGE	FORECAST	CHANGE	FORECAST	CHANGE	FORECAST	CHANGE	FORECAST	CHANGE
<b>REVENUES</b>											
Water Sales	\$ 307,175,053	\$ 316,341,192	3.0%	\$ 333,002,653	5.3%	\$ 354,421,887	6.4%	\$ 387,720,817	9.4%	\$ 430,609,768	11.1%
Liquid Waste Services Levy	274,237,112	288,225,540	5.1%	319,960,015	11.0%	357,836,615	11.8%	402,644,254	12.5%	467,016,401	16.0%
Solid Waste Tipping Fees	105,822,892	108,516,645	2.5%	112,961,596	4.1%	118,233,412	4.7%	124,343,566	5.2%	131,328,614	5.6%
Metro Vancouver Regional District Requisitions	71,779,890	80,939,658	12.8%	86,385,178	6.7%	92,715,620	7.3%	98,731,159	6.5%	101,958,338	3.3%
Compensation Services Revenue	483,893	484,531	0.1%	492,157	1.6%	505,829	2.8%	513,689	1.6%	523,498	1.9%
Collective Bargaining Services Revenue	887,536	900,427	1.5%	912,825	1.4%	928,833	1.8%	952,942	2.6%	971,033	1.9%
Housing Rents	40,392,325	41,303,421	2.3%	41,812,776	1.2%	44,361,315	6.1%	44,752,648	0.9%	47,398,800	5.9%
Liquid Waste Industrial Charges	11,201,217	11,756,424	5.0%	12,026,821	2.3%	12,303,439	2.3%	12,586,418	2.3%	12,875,906	2.3%
Energy Sales	5,681,540	6,239,530	9.8%	6,401,758	2.6%	6,568,204	2.6%	6,738,977	2.6%	6,914,190	2.6%
Transfer from DCC Reserves	34,172,083	43,145,119	26.3%	53,536,875	24.1%	69,782,765	30.3%	83,666,018	19.9%	94,707,923	13.2%
User Fees	5,288,054	5,184,946	(1.9%)	5,316,631	2.5%	5,343,821	0.5%	5,412,927	1.3%	5,480,086	1.2%
Housing Mortgage Subsidies	2,103,014	2,099,058	(0.2%)	2,147,785	2.3%	1,890,957	(12.0%)	1,934,029	2.3%	1,977,969	2.3%
Non-Road Diesel Permit Fees	1,760,000	1,365,000	(22.4%)	1,365,000	0.0%	1,365,000	0.0%	1,365,000	0.0%	1,365,000	0.0%
Regional Global Positioning System User Fees	292,221	288,091	(1.4%)	291,655	1.2%	287,103	(1.6%)	292,844	2.0%	298,508	1.9%
Electoral Area Requisition	376,943	389,401	3.3%	401,335	3.1%	404,654	0.8%	424,205	4.8%	443,327	4.5%
Love Food Hate Waste	406,800	492,000	20.9%	492,000	0.0%	452,000	(8.1%)	452,000	0.0%	346,000	(23.5%)
Zero Waste Conference	230,000	325,000	41.3%	337,000	3.7%	350,500	4.0%	366,200	4.5%	366,200	0.0%
Other External Revenues	9,213,671	11,537,524	25.2%	13,243,451	14.8%	14,385,966	8.6%	14,511,275	0.9%	13,520,316	(6.8%)
Transfer from Sustainability Innovation Fund Reserve	5,173,589	2,102,001	(59.4%)	1,082,001	(48.5%)	697,001	(35.6%)	442,000	(36.6%)	-	(100.0%)
Transfer from Reserves	17,650,939	17,852,993	1.1%	14,825,427	(17.0%)	14,137,431	(4.6%)	12,177,944	(13.9%)	12,760,030	4.8%
<b>TOTAL REVENUES</b>	<b>\$ 894,328,772</b>	<b>\$ 939,488,501</b>	<b>5.0%</b>	<b>\$ 1,006,994,939</b>	<b>7.2%</b>	<b>\$ 1,096,972,357</b>	<b>8.9%</b>	<b>\$ 1,200,028,912</b>	<b>9.4%</b>	<b>\$ 1,330,861,907</b>	<b>10.9%</b>
<b>EXPENDITURES</b>											
Operating Programs:											
Greater Vancouver Water District	\$ 310,426,734	\$ 318,631,748	2.6%	\$ 334,918,209	5.1%	\$ 356,327,856	6.4%	\$ 389,642,315	9.3%	\$ 431,491,440	10.7%
Greater Vancouver Sewerage & Drainage District:											
Liquid Waste	330,200,194	353,356,111	7.0%	393,867,015	11.5%	447,312,853	13.6%	503,828,549	12.6%	578,908,562	14.9%
Solid Waste	114,088,624	118,512,571	3.9%	124,657,028	5.2%	131,118,607	5.2%	137,455,691	4.8%	144,666,779	5.2%
Metro Vancouver Housing Corporation	52,289,752	53,692,021	2.7%	54,676,141	1.8%	57,551,666	5.3%	58,402,255	1.5%	62,112,882	6.4%
Metro Vancouver Regional District											
Air Quality	11,858,732	11,683,020	(1.5%)	11,562,719	(1.0%)	11,507,291	(0.5%)	11,940,897	3.8%	12,244,950	2.5%
E911 Emergency Telephone Service	4,521,227	4,633,573	2.5%	4,748,693	2.5%	4,866,654	2.5%	4,987,528	2.5%	5,111,386	2.5%
Electoral Area Service	808,417	678,891	(16.0%)	763,003	12.4%	676,322	(11.4%)	691,288	2.2%	698,410	1.0%
General Government Administration	5,879,900	5,681,876	(3.4%)	5,911,994	4.1%	5,975,895	1.1%	6,049,999	1.2%	6,118,636	1.1%
General Government-Zero Waste Collaboration Initiatives	1,679,923	1,660,020	(1.2%)	1,650,208	(0.6%)	1,623,868	(1.6%)	1,641,101	1.1%	1,538,185	(6.3%)
Housing Planning and Policy	6,093,504	6,221,486	2.1%	6,064,759	(2.5%)	6,079,659	0.2%	6,170,999	1.5%	6,197,799	0.4%
Regional Economic Prosperity	1,020,000	1,530,000	50.0%	2,040,000	33.3%	2,550,000	25.0%	2,550,000	0.0%	2,550,000	0.0%
Regional Emergency Management	237,868	228,945	(3.8%)	201,745	(11.9%)	189,162	(6.2%)	178,579	(5.6%)	178,635	0.0%
Regional Employer Services	3,164,558	3,102,235	(2.0%)	3,253,149	4.9%	2,999,503	(7.8%)	2,994,075	(0.2%)	2,997,621	0.1%
Regional Global Positioning System	328,849	324,719	(1.3%)	328,283	1.1%	323,731	(1.4%)	330,314	2.0%	336,840	2.0%
Regional Parks	46,873,308	54,561,963	16.4%	57,926,755	6.2%	63,137,878	9.0%	68,354,979	8.3%	70,742,766	3.5%
Regional Planning	3,913,393	3,855,768	(1.5%)	3,886,340	0.8%	4,044,061	4.1%	4,114,430	1.7%	4,262,366	3.6%
Sasamat Fire Protection Service	943,789	1,133,554	20.1%	538,898	(52.5%)	687,351	27.5%	695,913	1.2%	704,650	1.3%
	87,323,468	95,296,050	9.1%	98,876,546	3.8%	104,661,375	5.9%	110,700,102	5.8%	113,682,244	2.7%
<b>TOTAL EXPENDITURES</b>	<b>\$ 894,328,772</b>	<b>\$ 939,488,501</b>	<b>5.0%</b>	<b>\$ 1,006,994,939</b>	<b>7.2%</b>	<b>\$ 1,096,972,357</b>	<b>8.9%</b>	<b>\$ 1,200,028,912</b>	<b>9.4%</b>	<b>\$ 1,330,861,907</b>	<b>10.9%</b>

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT**  
**LIQUID WASTE**  
**2021-2025 FINANCIAL PLAN**

	2020 BUDGET	2021 BUDGET	% CHANGE	2022 FORECAST	% CHANGE	2023 FORECAST	% CHANGE	2024 FORECAST	% CHANGE	2025 FORECAST	% CHANGE
<b>REVENUES</b>											
Liquid Waste Services Levy	\$ 274,237,112	\$ 288,225,540	5.1%	\$ 319,960,015	11.0%	\$ 357,836,615	11.8%	\$ 402,644,254	12.5%	\$ 467,016,401	16.0%
User Fees	2,540,468	2,562,238		2,615,472		2,669,581		2,724,859		2,781,332	
Transfer from DCC Reserves	34,172,083	43,145,119		53,536,875		69,782,765		83,666,018		94,707,923	
BOD/TSS Industrial Charges	11,201,217	11,756,424		12,026,821		12,303,439		12,586,418		12,875,906	
Other External Revenues	540,000	1,400,000		1,411,000		1,423,000		1,435,000		1,447,000	
Transfer from Sustainability Innovation Fund Reserve	2,492,380	1,157,001		947,001		697,001		442,000			
Transfer from Reserves	5,016,934	5,109,789		3,369,831		2,600,452		330,000		80,000	
<b>TOTAL REVENUES</b>	<b>\$ 330,200,194</b>	<b>\$ 353,356,111</b>	<b>7.0%</b>	<b>\$ 393,867,015</b>	<b>11.5%</b>	<b>\$ 447,312,853</b>	<b>13.6%</b>	<b>\$ 503,828,549</b>	<b>12.6%</b>	<b>\$ 578,908,562</b>	<b>14.9%</b>
<b>EXPENDITURES</b>											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 1,127,000	\$ 1,127,000		\$ 1,127,000		\$ 1,127,000		\$ 1,127,000		\$ 1,127,000	
Utility Analysis and Infrastructure	2,612,298	3,217,893		3,350,280		3,413,406		3,477,333		3,542,368	
Utility Policy and Planning	2,657,094	3,063,269		3,109,678		2,990,793		3,201,239		3,257,971	
Wastewater Research and Innovation	3,589,737	2,191,630		2,106,821		1,882,284		1,811,503		1,399,123	
	9,986,129	9,599,792	(3.9%)	9,693,779	1.0%	9,413,483	(2.9%)	9,617,075	2.2%	9,326,462	(3.0%)
Management Systems and Utility Services											
Annacis Research Centre	511,467	489,001		489,001		489,002		489,000		489,001	
Dispatch	136,616	137,689		140,416		143,200		146,491		149,861	
Energy Management	285,653	285,649		285,653		285,654		295,510		305,623	
Engineers in Training	565,166	499,947		509,737		519,731		532,714		545,382	
Liquid Waste Residuals	29,178,967	33,291,360		34,351,079		35,681,246		32,099,026		21,556,687	
Management Systems Utility Services	385,731	989,560		997,046		1,004,684		1,015,086		1,024,747	
Records Management	115,703	115,862		117,979		120,140		123,019		125,967	
Utility Voice Radio	160,747	162,808		164,715		166,658		171,214		175,601	
	31,340,050	35,971,876	14.8%	37,055,626	3.0%	38,410,315	3.7%	34,872,060	(9.2%)	24,372,869	(30.1%)
Environmental Management and Quality Control											
Environmental Management and Quality Control	12,098,012	12,290,197		12,341,224		12,838,241		12,903,929		13,438,187	
Source Compliance Monitoring	413,611	410,963		413,055		413,611		423,124		432,856	
Contribution to Reserve	99,854	101,285		101,285		101,285		104,803		105,482	
	12,611,477	12,802,445	1.5%	12,855,564	0.4%	13,353,137	3.9%	13,431,856	0.6%	13,976,525	4.1%
Engineering Design and Construction											
Minor Capital Projects	8,542,930	8,915,484		9,124,386		9,172,958		9,390,470		9,616,265	
	8,542,930	8,915,484	4.4%	9,124,386	2.3%	9,172,958	0.5%	9,390,470	2.4%	9,616,265	2.4%
Operations and Maintenance											
Lake City Operations	999,648	955,508		967,218		979,166		1,001,694		1,024,738	
Maintenance	30,246,927	31,165,529		31,962,498		33,399,033		34,753,032		36,021,950	
SCADA Control Systems	1,055,781	1,065,995		1,081,836		1,097,994		1,134,329		1,158,568	
Urban Drainage	1,109,596	1,157,299		1,059,692		1,081,475		1,105,781		1,130,642	
Wastewater Collection	15,802,522	15,702,716		15,930,347		16,051,452		16,415,260		16,785,528	
Wastewater Treatment	40,585,187	45,473,059		47,001,921		51,460,421		52,950,300		55,833,575	
	89,799,661	95,520,106	6.4%	98,003,512	2.6%	104,069,541	6.2%	107,360,396	3.2%	111,955,001	4.3%
Administration and Department Support											
	2,299,047	2,156,200	(6.2%)	2,189,435	1.5%	2,200,682	0.5%	2,316,186	5.2%	2,372,152	2.4%
Communication and Outreach											
	450,000	450,000	0.0%	450,000	0.0%	450,000	0.0%	450,000	0.0%	450,000	0.0%
Environmental Regulation and Enforcement											
	2,041,734	2,041,164	0.0%	2,041,713	0.0%	2,041,427	0.0%	2,095,385	2.6%	2,144,355	2.3%
Allocation of Centralized Support											
	26,632,893	27,044,682	1.5%	28,571,309	5.6%	29,832,750	4.4%	32,432,257	8.7%	34,283,769	5.7%
Total Operating Programs	183,703,921	194,501,749	5.9%	199,985,324	2.8%	208,944,293	4.5%	211,965,685	1.4%	208,497,398	(1.6%)
Allocation of Project Delivery											
	3,433,102	5,082,413	48.0%	5,050,316	(0.6%)	4,357,824	(13.7%)	4,375,652	0.4%	4,445,364	1.6%
Debt Service											
	57,211,522	73,703,813	28.8%	109,325,880	48.3%	153,237,032	40.2%	198,755,821	29.7%	252,006,542	26.8%
Contribution to Capital											
	85,851,649	80,068,136	(6.7%)	79,505,495	(0.7%)	80,773,704	1.6%	88,731,391	9.9%	113,959,258	28.4%
<b>TOTAL EXPENDITURES</b>	<b>\$ 330,200,194</b>	<b>\$ 353,356,111</b>	<b>7.0%</b>	<b>\$ 393,867,015</b>	<b>11.5%</b>	<b>\$ 447,312,853</b>	<b>13.6%</b>	<b>\$ 503,828,549</b>	<b>12.6%</b>	<b>\$ 578,908,562</b>	<b>14.9%</b>

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
LIQUID WASTE  
2021-2025 FINANCIAL PLAN  
VANCOUVER SEWERAGE AREA

	2020 BUDGET	2021 BUDGET	% CHANGE	2022 FORECAST	% CHANGE	2023 FORECAST	% CHANGE	2024 FORECAST	% CHANGE	2025 FORECAST	% CHANGE
<b>REVENUES</b>											
Liquid Waste Services Levy	\$ 85,463,155	\$ 90,050,125	5.4%	\$ 99,798,610	10.8%	\$ 106,905,631	7.1%	\$ 119,637,931	11.9%	\$ 134,375,274	12.3%
User Fees	582,962	652,388		666,275		680,200		694,440		709,003	
Transfer from DCC Reserves	4,292,957	5,094,257		5,995,790		7,111,497		6,930,330		6,921,177	
BOD/TSS Industrial Charges	2,919,742	3,148,010		3,220,414		3,294,484		3,370,257		3,447,773	
Other External Revenues	81,940	165,775		165,775		165,775		165,775		165,775	
Transfer from Sustainability Innovation Fund Reserve	991,968	443,247		362,796		267,021		169,330		-	
Transfer from Reserves	4,810,136	5,029,789		3,289,831		2,520,452		92,134		-	
<b>TOTAL REVENUES</b>	<b>\$ 99,142,860</b>	<b>\$ 104,583,591</b>	<b>5.5%</b>	<b>\$ 113,499,491</b>	<b>8.5%</b>	<b>\$ 120,945,060</b>	<b>6.6%</b>	<b>\$ 131,060,197</b>	<b>8.4%</b>	<b>\$ 145,619,002</b>	<b>11.1%</b>
<b>EXPENDITURES</b>											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 448,546	\$ 448,546		\$ 448,546		\$ 448,546		\$ 448,546		\$ 448,546	
Utility Analysis and Infrastructure	984,124	1,207,896		1,258,307		1,282,179		1,306,286		1,330,809	
Utility Policy and Planning	1,029,326	1,146,347		1,164,004		1,118,334		1,198,804		1,220,381	
Wastewater Research and Innovation	1,428,716	839,613		807,123		721,103		693,987		536,004	
	3,890,712	3,642,402	(6.4%)	3,677,980	1.0%	3,570,162	(2.9%)	3,647,623	2.2%	3,535,740	(3.1%)
Management Systems and Utility Services											
Annacis Research Centre	203,564	194,622		194,622		194,622		194,622		194,622	
Dispatch	40,402	41,173		41,988		42,821		43,805		44,813	
Energy Management	84,480	85,417		85,418		85,419		88,366		91,390	
Engineers in Training	224,913	191,526		195,277		199,105		204,079		208,932	
Liquid Waste Residuals	16,124,206	19,784,445		21,079,393		20,496,403		18,338,671		7,158,355	
Management Systems Utility Services	114,076	295,908		298,147		300,431		303,541		306,430	
Records Management	34,217	34,646		35,279		35,925		36,786		37,668	
Utility Voice Radio	57,716	58,456		59,141		59,839		61,474		63,050	
	16,883,574	20,686,193	22.5%	21,989,265	6.3%	21,414,565	(2.6%)	19,271,344	(10.0%)	8,105,260	(57.9%)
Environmental Management and Quality Control											
Environmental Management and Quality Control	4,694,233	4,529,371		4,548,924		4,739,330		4,754,657		4,958,502	
Source Compliance Monitoring	164,617	163,563		164,396		164,617		168,403		172,277	
Contribution to Reserve	38,745	37,327		37,327		37,327		38,624		38,874	
	4,897,595	4,730,261	(3.4%)	4,750,647	0.4%	4,941,274	4.0%	4,961,684	0.4%	5,169,653	4.2%
Engineering Design and Construction											
Minor Capital Projects											
	2,960,643	2,869,331		2,917,110		2,932,150		3,001,731		3,074,042	
	2,960,643	2,869,331	(3.1%)	2,917,110	1.7%	2,932,150	0.5%	3,001,731	2.4%	3,074,042	2.4%
Operations and Maintenance											
Lake City Operations	397,861	366,055		370,541		375,119		383,749		392,577	
Maintenance	8,033,121	8,157,588		8,381,249		8,520,948		8,859,660		9,159,988	
SCADA Control Systems	303,023	293,653		298,016		302,467		312,476		319,154	
Wastewater Collection	4,126,385	4,133,838		4,169,808		4,104,506		4,127,262		4,290,434	
Wastewater Treatment	10,639,750	12,958,525		14,072,248		14,660,275		15,146,106		15,477,963	
	23,500,140	25,909,659	10.3%	27,291,862	5.3%	27,963,315	2.5%	28,829,253	3.1%	29,640,116	2.8%
Administration and Department Support											
	679,920	644,768	(5.2%)	654,708	1.5%	658,071	0.5%	692,609	5.2%	709,343	2.4%
Communication and Outreach											
	179,100	172,395	(3.7%)	172,395	0.0%	172,395	0.0%	172,395	0.0%	172,395	0.0%
Environmental Regulation and Enforcement											
	380,375	363,123	(4.5%)	363,221	0.0%	363,170	0.0%	372,769	2.6%	381,481	2.3%
Allocation of Centralized Support											
	7,900,981	8,137,092	3.0%	8,494,213	4.4%	8,631,897	1.6%	8,780,571	1.7%	8,959,600	2.0%
Total Operating Programs	61,273,040	67,155,224	9.6%	70,311,401	4.7%	70,646,999	0.5%	69,729,979	(1.3%)	59,747,630	(14.3%)
Allocation of Project Delivery											
	1,109,214	1,211,306	9.2%	1,217,797	0.5%	1,071,988	(12.0%)	1,076,654	0.4%	1,091,605	1.4%
Debt Service											
	7,131,201	9,186,351	28.8%	13,784,047	50.0%	20,490,289	48.7%	29,421,207	43.6%	40,147,160	36.5%
Contribution to Capital											
	29,629,405	27,030,710	(8.8%)	28,186,246	4.3%	28,735,784	1.9%	30,832,357	7.3%	44,632,607	44.8%
<b>TOTAL EXPENDITURES</b>	<b>\$ 99,142,860</b>	<b>\$ 104,583,591</b>	<b>5.5%</b>	<b>\$ 113,499,491</b>	<b>8.5%</b>	<b>\$ 120,945,060</b>	<b>6.6%</b>	<b>\$ 131,060,197</b>	<b>8.4%</b>	<b>\$ 145,619,002</b>	<b>11.1%</b>

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT**  
**LIQUID WASTE**  
**2021-2025 FINANCIAL PLAN**  
**NORTH SHORE SEWERAGE AREA**

	2020 BUDGET	2021 BUDGET	% CHANGE	2022 FORECAST	% CHANGE	2023 FORECAST	% CHANGE	2024 FORECAST	% CHANGE	2025 FORECAST	% CHANGE
<b>REVENUES</b>											
Liquid Waste Services Levy	\$ 26,051,249	\$ 28,612,631	9.8%	\$ 34,255,190	19.7%	\$ 41,300,408	20.6%	\$ 48,975,733	18.6%	\$ 57,300,813	17.0%
User Fees	74,232	71,039		72,352		73,691		75,057		76,450	
Transfer from DCC Reserves	1,549,664	1,748,354		1,786,857		2,447,960		2,189,833		1,828,082	
BOD/TSS Industrial Charges	765,271	861,405		881,217		901,485		922,219		943,430	
Other External Revenues	1,989	16,900		16,900		16,900		16,900		16,900	
Transfer from Sustainability Innovation Fund Reserve	165,246	78,213		64,017		47,117		29,879		-	
Transfer from Reserves	11,210	-		-		-		18,835		-	
<b>TOTAL REVENUES</b>	<b>\$ 28,618,861</b>	<b>\$ 31,388,542</b>	<b>9.7%</b>	<b>\$ 37,076,533</b>	<b>18.1%</b>	<b>\$ 44,787,561</b>	<b>20.8%</b>	<b>\$ 52,228,456</b>	<b>16.6%</b>	<b>\$ 60,165,675</b>	<b>15.2%</b>
<b>EXPENDITURES</b>											
<b>Operating Programs:</b>											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 74,720	\$ 74,720		\$ 74,720		\$ 74,720		\$ 74,720		\$ 74,720	
Utility Analysis and Infrastructure	163,938	213,139		222,035		226,247		230,501		234,828	
Utility Policy and Planning	171,468	202,279		205,395		197,336		211,535		215,343	
Wastewater Research and Innovation	238,000	148,154		142,421		127,242		122,457		94,581	
	648,126	638,292	(1.5%)	644,571	1.0%	625,545	(3.0%)	639,213	2.2%	619,472	(3.1%)
<b>Management Systems and Utility Services</b>											
Annacis Research Centre	33,910	32,421		32,421		32,421		32,421		32,421	
Dispatch	11,145	12,017		12,255		12,498		12,785		13,079	
Energy Management	23,301	24,929		24,929		24,929		25,790		26,672	
Engineers in Training	37,486	33,799		34,461		35,136		36,014		36,870	
Liquid Waste Residuals	799,980	849,489		813,020		1,018,520		1,875,859		1,947,367	
Management Systems Utility Services	31,464	86,359		87,012		87,679		88,587		89,430	
Records Management	9,439	10,112		10,297		10,485		10,737		10,994	
Utility Voice Radio	15,301	15,497		15,678		15,863		16,297		16,714	
	962,026	1,064,623	10.7%	1,030,073	(3.2%)	1,237,531	20.1%	2,098,490	69.6%	2,173,547	3.6%
<b>Environmental Management and Quality Control</b>											
Environmental Management and Quality Control	904,095	925,963		929,408		963,004		972,679		1,009,231	
Source Compliance Monitoring	27,422	27,247		27,386		27,422		28,053		28,698	
Contribution to Reserve	7,462	7,631		7,631		7,631		7,896		7,947	
	938,979	960,841	2.3%	964,425	0.4%	998,057	3.5%	1,008,628	1.1%	1,045,876	3.7%
<b>Engineering Design and Construction</b>											
Minor Capital Projects	532,271	545,939		551,479		554,779		567,970		581,279	
	532,271	545,939	2.6%	551,479	1.0%	554,779	0.6%	567,970	2.4%	581,279	2.3%
<b>Operations and Maintenance</b>											
Lake City Operations	66,276	64,593		65,384		66,191		67,715		69,272	
Maintenance	3,233,529	3,281,647		3,370,315		4,176,725		4,327,999		4,485,773	
SCADA Control Systems	151,738	152,669		154,938		157,252		162,456		165,927	
Wastewater Collection	2,570,342	2,539,123		2,545,582		2,490,712		2,633,801		2,701,894	
Wastewater Treatment	5,887,287	6,221,673		6,318,034		6,671,663		7,570,324		10,366,809	
	11,909,172	12,259,705	2.9%	12,454,253	1.6%	13,562,543	8.9%	14,762,295	8.8%	17,789,675	20.5%
<b>Administration and Department Support</b>											
	187,533	188,172	0.3%	191,072	1.5%	192,054	0.5%	202,134	5.2%	207,018	2.4%
<b>Communication and Outreach</b>											
	29,835	30,420	2.0%	30,420	0.0%	30,420	0.0%	30,420	0.0%	30,420	0.0%
<b>Environmental Regulation and Enforcement</b>											
	121,075	119,816	(1.0%)	119,849	0.0%	119,832	0.0%	122,999	2.6%	125,874	2.3%
<b>Allocation of Centralized Support</b>											
	2,166,117	2,352,724	8.6%	2,518,842	7.1%	2,794,366	10.9%	3,234,085	15.7%	3,532,266	9.2%
<b>Total Operating Programs</b>	<b>17,495,134</b>	<b>18,160,532</b>	<b>3.8%</b>	<b>18,504,984</b>	<b>1.9%</b>	<b>20,115,127</b>	<b>8.7%</b>	<b>22,666,234</b>	<b>12.7%</b>	<b>26,105,427</b>	<b>15.2%</b>
<b>Allocation of Project Delivery</b>											
	231,769	643,067	180.0%	627,450	(2.4%)	552,604	(11.9%)	544,318	(1.5%)	550,246	1.1%
<b>Debt Service</b>											
	3,251,337	4,913,012	51.1%	12,172,791	150.0%	17,815,947	46.4%	22,778,078	27.9%	25,685,496	12.8%
<b>Contribution to Capital</b>											
	7,640,621	7,671,931	0.4%	5,771,308	(24.8%)	6,303,883	9.2%	6,239,826	(1.0%)	7,824,506	25.4%
<b>TOTAL EXPENDITURES</b>	<b>\$ 28,618,861</b>	<b>\$ 31,388,542</b>	<b>9.7%</b>	<b>\$ 37,076,533</b>	<b>18.1%</b>	<b>\$ 44,787,561</b>	<b>20.8%</b>	<b>\$ 52,228,456</b>	<b>16.6%</b>	<b>\$ 60,165,675</b>	<b>15.2%</b>

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
LIQUID WASTE  
2021-2025 FINANCIAL PLAN  
LULU ISLAND WEST SEWERAGE AREA

	2020 BUDGET	2021 BUDGET	% CHANGE	2022 FORECAST	% CHANGE	2023 FORECAST	% CHANGE	2024 FORECAST	% CHANGE	2025 FORECAST	% CHANGE
<b>REVENUES</b>											
Liquid Waste Services Levy	\$ 24,688,980	\$ 25,619,792	3.8%	\$ 28,738,087	12.2%	\$ 32,598,274	13.4%	\$ 35,489,503	8.9%	\$ 40,400,320	13.8%
User Fees	143,359	136,691		139,314		141,989		144,718		147,501	
Transfer from DCC Reserves	1,523,267	1,630,909		1,603,936		2,298,581		2,203,999		2,212,907	
BOD/TSS Industrial Charges	854,993	755,482		772,858		790,634		808,819		827,422	
Other External Revenues	2,112	657,350		668,350		680,350		692,350		704,350	
Transfer from Sustainability Innovation Fund Reserve	175,464	80,296		65,722		48,372		30,675		-	
Transfer from Reserves	10,973	-		-		-		18,317		-	
<b>TOTAL REVENUES</b>	<b>\$ 27,399,148</b>	<b>\$ 28,880,520</b>	<b>5.4%</b>	<b>\$ 31,988,267</b>	<b>10.8%</b>	<b>\$ 36,558,200</b>	<b>14.3%</b>	<b>\$ 39,388,381</b>	<b>7.7%</b>	<b>\$ 44,292,500</b>	<b>12.5%</b>
<b>EXPENDITURES</b>											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 79,341	\$ 79,341		\$ 79,341		\$ 79,341		\$ 79,341		\$ 79,341	
Utility Analysis and Infrastructure	174,076	218,815		227,947		232,271		236,639		241,081	
Utility Policy and Planning	182,072	207,665		210,864		202,591		217,168		221,077	
Wastewater Research and Innovation	252,718	152,099		146,214		130,631		125,719		97,099	
	688,207	657,920	(4.4%)	664,366	1.0%	644,834	(2.9%)	658,867	2.2%	638,598	(3.1%)
Management Systems and Utility Services											
Anncis Research Centre	36,007	34,426		34,426		34,426		34,426		34,426	
Dispatch	10,143	11,538		11,767		12,000		12,276		12,558	
Energy Management	21,208	23,933		23,934		23,934		24,760		25,607	
Engineers in Training	39,792	34,694		35,373		36,067		36,968		37,847	
Liquid Waste Residuals	1,602,414	1,736,066		1,695,979		1,910,402		1,663,499		1,730,184	
Management Systems Utility Services	28,637	82,915		83,542		84,182		85,054		85,864	
Records Management	8,590	9,709		9,887		10,068		10,309		10,556	
Utility Voice Radio	13,466	13,639		13,798		13,961		14,343		14,710	
	1,760,257	1,946,920	10.6%	1,908,706	(2.0%)	2,125,040	11.3%	1,881,635	(11.5%)	1,951,752	3.7%
Environmental Management and Quality Control											
Environmental Management and Quality Control	885,036	900,489		904,034		938,528		945,693		982,998	
Source Compliance Monitoring	29,118	28,932		29,079		29,118		29,788		30,473	
Contribution to Reserve	7,305	7,421		7,421		7,421		7,679		7,729	
	921,459	936,842	1.7%	940,534	0.4%	975,067	3.7%	983,160	0.8%	1,021,200	3.9%
Engineering Design and Construction											
Minor Capital Projects	1,388,789	1,147,833		1,152,731		1,155,232		1,182,504		1,209,608	
	1,388,789	1,147,833	(17.4%)	1,152,731	0.4%	1,155,232	0.2%	1,182,504	2.4%	1,209,608	2.3%
Operations and Maintenance											
Lake City Operations	70,375	66,312		67,125		67,953		69,518		71,117	
Maintenance	2,670,287	2,702,049		2,723,586		2,767,637		2,998,259		3,101,424	
SCADA Control Systems	29,342	31,880		32,353		32,837		33,924		34,650	
Wastewater Collection	787,070	628,285		630,504		632,271		654,694		650,130	
Wastewater Treatment	5,353,598	5,410,890		5,532,305		5,667,893		5,975,846		6,098,518	
	8,910,672	8,839,416	(0.8%)	8,985,873	1.7%	9,168,591	2.0%	9,732,241	6.1%	9,955,839	2.3%
Administration and Department Support											
	170,681	180,668	5.9%	183,452	1.5%	184,395	0.5%	194,074	5.2%	198,763	2.4%
Communication and Outreach											
	31,680	31,230	(1.4%)	31,230	0.0%	31,230	0.0%	31,230	0.0%	31,230	0.0%
Environmental Regulation and Enforcement											
	196,211	190,849	(2.7%)	190,900	0.0%	190,873	0.0%	195,918	2.6%	200,497	2.3%
Allocation of Centralized Support											
	1,976,271	2,260,778	14.4%	2,342,177	3.6%	2,431,963	3.8%	2,661,396	9.4%	2,684,510	0.9%
Total Operating Programs	16,044,227	16,192,456	0.9%	16,399,969	1.3%	16,907,225	3.1%	17,521,025	3.6%	17,891,997	2.1%
Allocation of Project Delivery											
	194,760	275,720	41.6%	274,904	(0.3%)	232,605	(15.4%)	235,740	1.3%	240,308	1.9%
Debt Service											
	3,888,777	5,110,522	31.4%	9,480,526	85.5%	13,553,835	43.0%	14,726,078	8.6%	16,676,618	13.2%
Contribution to Capital											
	7,271,384	7,301,822	0.4%	5,832,868	(20.1%)	5,864,535	0.5%	6,905,538	17.8%	9,483,577	37.3%
<b>TOTAL EXPENDITURES</b>	<b>\$ 27,399,148</b>	<b>\$ 28,880,520</b>	<b>5.4%</b>	<b>\$ 31,988,267</b>	<b>10.8%</b>	<b>\$ 36,558,200</b>	<b>14.3%</b>	<b>\$ 39,388,381</b>	<b>7.7%</b>	<b>\$ 44,292,500</b>	<b>12.5%</b>



GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
LIQUID WASTE  
2021-2025 FINANCIAL PLAN  
FRASER SEWERAGE AREA

	2020 BUDGET	2021 BUDGET	% CHANGE	2022 FORECAST	% CHANGE	2023 FORECAST	% CHANGE	2024 FORECAST	% CHANGE	2025 FORECAST	% CHANGE
<b>REVENUES</b>											
Liquid Waste Services Levy	\$ 135,919,069	\$ 141,735,174	4.3%	\$ 155,014,117	9.4%	\$ 174,860,128	12.8%	\$ 196,326,044	12.3%	\$ 232,683,537	18.5%
User Fees	1,739,915	1,702,120		1,737,531		1,773,701		1,810,644		1,848,378	
Transfer from DCC Reserves	26,806,195	34,671,599		44,150,292		57,924,727		72,341,856		83,745,757	
BOD/TSS Industrial Charges	6,661,211	6,991,527		7,152,332		7,316,836		7,485,123		7,657,281	
Other External Revenues	453,959	559,975		559,975		559,975		559,975		559,975	
Transfer from Sustainability Innovation Fund Reserve	1,159,702	555,245		454,466		334,491		212,116		-	
Transfer from Reserves	69,615	-		-		-		120,714		-	
<b>TOTAL REVENUES</b>	<b>\$ 172,809,666</b>	<b>\$ 186,215,640</b>	<b>7.8%</b>	<b>\$ 209,068,713</b>	<b>12.3%</b>	<b>\$ 242,769,858</b>	<b>16.1%</b>	<b>\$ 278,856,472</b>	<b>14.9%</b>	<b>\$ 326,494,928</b>	<b>17.1%</b>
<b>EXPENDITURES</b>											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 524,393	\$ 524,393		\$ 524,393		\$ 524,393		\$ 524,393		\$ 524,393	
Utility Analysis and Infrastructure	1,150,536	1,513,101		1,576,250		1,606,154		1,636,352		1,667,072	
Utility Policy and Planning	1,203,380	1,436,002		1,458,119		1,400,910		1,501,712		1,528,740	
Wastewater Research and Innovation	1,670,303	1,051,764		1,011,063		903,308		869,340		671,439	
	4,548,612	4,525,260	(0.5%)	4,569,825	1.0%	4,434,765	(3.0%)	4,531,797	2.2%	4,391,644	(3.1%)
Management Systems and Utility Services											
Annacis Research Centre	237,986	227,532		227,532		227,533		227,531		227,532	
Dispatch	73,776	71,880		73,304		74,757		76,476		78,234	
Energy Management	154,253	149,125		149,127		149,128		154,273		159,553	
Engineers in Training	262,975	239,928		244,626		249,423		255,653		261,733	
Liquid Waste Residuals	10,652,367	10,921,360		10,762,687		12,255,921		10,220,997		10,720,781	
Management Systems Utility Services	208,307	516,610		520,518		524,505		529,936		534,980	
Records Management	62,482	60,485		61,591		62,719		64,222		65,761	
Utility Voice Radio	74,264	75,216		76,098		76,995		79,100		81,127	
	11,726,410	12,262,136	4.6%	12,115,483	(1.2%)	13,620,981	12.4%	11,608,188	(14.8%)	12,129,701	4.5%
Environmental Management and Quality Control											
Environmental Management and Quality Control	5,614,648	5,934,374		5,958,858		6,197,379		6,230,900		6,487,456	
Source Compliance Monitoring	192,454	191,221		192,194		192,454		196,880		201,408	
Contribution to Reserve	46,342	48,906		48,906		48,906		50,604		50,932	
	5,853,444	6,174,501	5.5%	6,199,958	0.4%	6,438,739	3.9%	6,478,384	0.6%	6,739,796	4.0%
Engineering Design and Construction											
Minor Capital Projects	3,339,854	3,872,930		3,998,449		4,022,886		4,118,473		4,219,957	
	3,339,854	3,872,930	16.0%	3,998,449	3.2%	4,022,886	0.6%	4,118,473	2.4%	4,219,957	2.5%
Operations and Maintenance											
Lake City Operations	465,136	458,548		464,168		469,903		480,712		491,772	
Maintenance	16,090,428	16,858,101		17,319,175		17,759,718		18,388,055		19,081,178	
SCADA Control Systems	549,682	566,287		574,703		583,286		602,589		615,462	
Wastewater Collection	8,236,131	8,282,322		8,458,610		8,695,718		8,868,311		9,017,543	
Wastewater Treatment	18,704,552	20,881,971		21,079,334		24,460,590		24,258,024		23,890,285	
	44,045,929	47,047,229	6.8%	47,895,990	1.8%	51,969,215	8.5%	52,597,691	1.2%	53,096,240	0.9%
Administration and Department Support											
	1,241,554	1,125,665	(9.3%)	1,143,017	1.5%	1,148,887	0.5%	1,209,187	5.2%	1,238,407	2.4%
Communication and Outreach											
	209,385	215,955	3.1%	215,955	0.0%	215,955	0.0%	215,955	0.0%	215,955	0.0%
Environmental Regulation and Enforcement											
	1,344,073	1,367,376	1.7%	1,367,743	0.0%	1,367,552	0.0%	1,403,699	2.6%	1,436,503	2.3%
Allocation of Centralized Support											
	14,352,600	14,114,667	(1.7%)	15,028,539	6.5%	15,803,788	5.2%	17,590,030	11.3%	18,947,684	7.7%
Total Operating Programs	86,661,861	90,705,719	4.7%	92,534,959	2.0%	99,022,768	7.0%	99,753,404	0.7%	102,415,887	2.7%
Allocation of Project Delivery											
	1,897,359	2,952,320	55.6%	2,930,165	(0.8%)	2,500,627	(14.7%)	2,518,940	0.7%	2,563,205	1.8%
Debt Service											
	42,940,207	54,493,928	26.9%	73,888,516	35.6%	101,376,961	37.2%	131,830,458	30.0%	169,497,268	28.6%
Contribution to Capital											
	41,310,239	38,063,673	(7.9%)	39,715,073	4.3%	39,869,502	0.4%	44,753,670	12.3%	52,018,568	16.2%
<b>TOTAL EXPENDITURES</b>	<b>\$ 172,809,666</b>	<b>\$ 186,215,640</b>	<b>7.8%</b>	<b>\$ 209,068,713</b>	<b>12.3%</b>	<b>\$ 242,769,858</b>	<b>16.1%</b>	<b>\$ 278,856,472</b>	<b>14.9%</b>	<b>\$ 326,494,928</b>	<b>17.1%</b>

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT**  
**LIQUID WASTE**  
**2021-2025 FINANCIAL PLAN**  
**DRAINAGE**

	2020 BUDGET	2021 BUDGET	% CHANGE	2022 FORECAST	% CHANGE	2023 FORECAST	% CHANGE	2024 FORECAST	% CHANGE	2025 FORECAST	% CHANGE
<b>REVENUES</b>											
Liquid Waste Services Levy	\$ 2,114,659	\$ 2,207,818	4.4%	\$ 2,154,011	(2.4%)	\$ 2,172,174	0.8%	\$ 2,215,043	2.0%	\$ 2,256,457	1.9%
Reserves	115,000	80,000		80,000		80,000		80,000		80,000	
<b>TOTAL REVENUES</b>	<b>\$ 2,229,659</b>	<b>\$ 2,287,818</b>	<b>2.6%</b>	<b>\$ 2,234,011</b>	<b>(2.4%)</b>	<b>\$ 2,252,174</b>	<b>0.8%</b>	<b>\$ 2,295,043</b>	<b>1.9%</b>	<b>\$ 2,336,457</b>	<b>1.8%</b>
<b>EXPENDITURES</b>											
Operating Programs:											
Policy Planning and Analysis											
Utility Analysis and Infrastructure	\$ 139,624	\$ 64,942		\$ 65,741		\$ 66,555		\$ 67,555		\$ 68,578	
Utility Policy and Planning	70,848	70,976		71,296		71,622		72,020		72,430	
	<u>210,472</u>	<u>135,918</u>	(35.4%)	<u>137,037</u>	0.8%	<u>138,177</u>	0.8%	<u>139,575</u>	1.0%	<u>141,008</u>	1.0%
Management Systems and Utility Services											
Dispatch	1,150	1,081		1,102		1,124		1,149		1,177	
Energy Management	2,411	2,245		2,245		2,244		2,321		2,401	
Management Systems Utility Services	3,247	7,768		7,827		7,887		7,968		8,043	
Records Management	975	910		925		943		965		988	
	<u>7,783</u>	<u>12,004</u>	54.2%	<u>12,099</u>	0.8%	<u>12,198</u>	0.8%	<u>12,403</u>	1.7%	<u>12,609</u>	1.7%
Engineering Design and Construction											
Minor Capital Projects	321,373	479,451		504,617		507,911		519,792		531,379	
	<u>321,373</u>	<u>479,451</u>	49.2%	<u>504,617</u>	5.2%	<u>507,911</u>	0.7%	<u>519,792</u>	2.3%	<u>531,379</u>	2.2%
Operations and Maintenance											
Maintenance	219,562	166,144		168,173		174,005		179,059		193,587	8.1%
SCADA Control Systems	21,996	21,506		21,826		22,152		22,884		23,375	2.1%
Urban Drainage	1,109,596	1,157,299		1,059,692		1,081,475		1,105,781		1,130,642	2.2%
Wastewater Collection	82,594	119,148		125,843		128,245		131,192		125,527	(4.3%)
	<u>1,433,748</u>	<u>1,464,097</u>	2.1%	<u>1,375,534</u>	(6.0%)	<u>1,405,877</u>	2.2%	<u>1,438,916</u>	2.4%	<u>1,473,131</u>	2.4%
Administration and Department Support	19,359	16,927	(12.6%)	17,186	1.5%	17,275	0.5%	18,182	5.3%	18,621	2.4%
Allocation of Centralized Support	236,924	179,421	(24.3%)	187,538	4.5%	170,736	(9.0%)	166,175	(2.7%)	159,709	(3.9%)
<b>TOTAL EXPENDITURES</b>	<b>\$ 2,229,659</b>	<b>\$ 2,287,818</b>	<b>2.6%</b>	<b>\$ 2,234,011</b>	<b>(2.4%)</b>	<b>\$ 2,252,174</b>	<b>0.8%</b>	<b>\$ 2,295,043</b>	<b>1.9%</b>	<b>\$ 2,336,457</b>	<b>1.8%</b>

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**LIQUID WASTE SERVICES**  
**2021 - 2025 CAPITAL PLAN**

	2021 CAPITAL BUDGET	2022 CAPITAL PLAN	2023 CAPITAL PLAN	2024 CAPITAL PLAN	2025 CAPITAL PLAN	2021 TO 2025 TOTAL
<b>CAPITAL EXPENDITURES</b>						
<b>SD Infrastructure Growth Capital</b>						
AIWWTP Site Construction Layout	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	1,000,000
AIWWTP Stage 5 Expansion & Outfall System	109,750,000	106,050,000	87,750,000	149,900,000	109,300,000	562,750,000
Albert Street Trunk Sewer	600,000	-	-	-	-	600,000
Burnaby Lake North Interceptor	50,000,000	37,100,000	10,800,000	1,700,000	15,500,000	115,100,000
Burnaby South Slope Interceptor	-	250,000	750,000	650,000	3,500,000	5,150,000
Cloverdale Pump Station Capacity Upgrade	350,000	900,000	900,000	15,900,000	5,000,000	23,050,000
Cloverdale Trunk Sewer Capacity Upgrade	-	300,000	1,050,000	1,200,000	8,400,000	10,950,000
Glenbrook Combined Trunk Kingsway Sanitary Section	400,000	6,000,000	500,000	-	-	6,900,000
Hastings Sanitary Trunk Sewer	150,000	-	-	-	-	150,000
Hastings-Cassiar Intake Connection	1,900,000	350,000	-	-	-	2,250,000
LIWWTP Digester No 3	200,000	150,000	1,300,000	1,350,000	1,000,000	4,000,000
Lozells Sanitary Trunk Golf Course Section	-	-	-	-	50,000	50,000
Marshend Pump Station	1,800,000	1,300,000	6,800,000	2,850,000	-	12,750,000
North Road Trunk Sewer	3,100,000	5,050,000	3,700,000	100,000	-	11,950,000
North Vancouver Interceptor - Lynn Branch Pre-build	50,000	-	-	-	-	50,000
Northwest Langley Wastewater Treatment Projects	86,500,000	139,000,000	169,250,000	333,350,000	321,300,000	1,049,400,000
NSI 104th Ave Extension	-	-	6,500,000	1,500,000	-	8,000,000
NSI Flow Management	3,000,000	13,000,000	30,000,000	42,950,000	-	88,950,000
Port Moody Pump Station Capacity Upgrade	500,000	1,050,000	4,500,000	3,800,000	-	9,850,000
Port Moody South Interceptor Capacity Upgrade	-	150,000	350,000	1,000,000	1,000,000	2,500,000
Rosemary Heights Pressure Sewer Capacity Upgrade	-	150,000	500,000	650,000	4,800,000	6,100,000
Sapperton Pump Station	1,000,000	-	-	-	-	1,000,000
South Surrey Interceptor Twinning	10,500,000	11,500,000	12,500,000	500,000	-	35,000,000
	<b>\$ 270,800,000</b>	<b>\$ 322,300,000</b>	<b>\$ 337,150,000</b>	<b>\$ 557,400,000</b>	<b>\$ 469,850,000</b>	<b>\$ 1,957,500,000</b>

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**LIQUID WASTE SERVICES**  
**2021 - 2025 CAPITAL PLAN**

	<b>2021 CAPITAL BUDGET</b>	<b>2022 CAPITAL PLAN</b>	<b>2023 CAPITAL PLAN</b>	<b>2024 CAPITAL PLAN</b>	<b>2025 CAPITAL PLAN</b>	<b>2021 TO 2025 TOTAL</b>
<b>SD Infrastructure Maintenance Capital</b>						
AIWWTP Chemical Lab UPS System Replacement	\$ 550,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 600,000
AIWWTP Cogen Building Refurbishment	100,000	1,200,000	200,000	-	-	1,500,000
AIWWTP Fibre Optic Infrastructure	150,000	-	-	-	-	150,000
AIWWTP ICS Replacement Program	1,700,000	1,650,000	1,650,000	1,600,000	2,200,000	8,800,000
AIWWTP Influent System Remediation	1,300,000	1,600,000	14,700,000	20,700,000	14,000,000	52,300,000
AIWWTP IPS Pump Building Roof Replacement Phase 2	-	-	-	100,000	500,000	600,000
AIWWTP Outfall Repair	800,000	750,000	-	-	-	1,550,000
AIWWTP Replacement of ICS Equipment	750,000	200,000	200,000	-	-	1,150,000
AIWWTP Scheduled 64kV Potential & Current Transformer Replacements	200,000	500,000	-	-	-	700,000
AIWWTP Scum Pump Replacement	-	-	-	200,000	150,000	350,000
AIWWTP Secondary Clarifier Corrosion Repair	7,600,000	3,500,000	7,250,000	10,800,000	5,000,000	34,150,000
AIWWTP Secondary Effluent Discharge Flowmeter Replacement	150,000	100,000	-	-	-	250,000
AIWWTP Spare Trickling Filter Pump & Motor Purchase	1,950,000	-	-	-	-	1,950,000
AIWWTP Station Battery Replacement	150,000	100,000	-	-	-	250,000
AIWWTP Trickling Filter Media & Distributor Arms & Ducting Replacement	25,250,000	22,600,000	20,000,000	-	-	67,850,000
Annacis MCC 80 051, 80 070, 80 071 Replacement	400,000	200,000	150,000	-	-	750,000
Big Bend Forcemain - Gate Replacement	-	-	-	600,000	650,000	1,250,000
Cambie Trunk Sewer Relocation for Broadway Subway Project	2,000,000	-	-	-	-	2,000,000
Combined Sewer Overflow Sampling Station Enhancements	650,000	450,000	-	-	-	1,100,000
Crescent Beach FM - Replacement	12,000,000	-	-	-	-	12,000,000
English Bay/Balclava Outfalls Improvement	-	250,000	500,000	150,000	-	900,000
FSA Flow Metering Program	900,000	800,000	300,000	-	-	2,000,000
FSA Statutory Right of Way Acquisitions Phase 1	9,000,000	6,000,000	9,000,000	-	-	24,000,000
Gilbert/Brighthouse Trunk Pressure Sewer	45,100,000	37,500,000	600,000	3,000,000	10,000,000	96,200,000
Glen Eagles Forcemain Replacement	2,100,000	2,500,000	2,500,000	-	-	7,100,000
Glen Eagles Pump Stations	5,700,000	5,150,000	6,200,000	6,000,000	1,000,000	24,050,000
Harbour Pump Station Discharge Header Repair and Valve Replacements	1,000,000	500,000	-	-	-	1,500,000

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**LIQUID WASTE SERVICES**  
**2021 - 2025 CAPITAL PLAN**

	<b>2021 CAPITAL BUDGET</b>	<b>2022 CAPITAL PLAN</b>	<b>2023 CAPITAL PLAN</b>	<b>2024 CAPITAL PLAN</b>	<b>2025 CAPITAL PLAN</b>	<b>2021 TO 2025 TOTAL</b>
Harbour Pump Station Power Distribution Equipment Replacement	400,000	1,200,000	1,300,000	400,000	-	3,300,000
Harbour West & East Interceptors Reloc & Protect	6,700,000	-	-	-	-	6,700,000
Highbury Interceptor Diversion Junction Chamber Wall Rehabilitation	500,000	5,500,000	-	-	-	6,000,000
IIWWTP ICS IPS Control Replacement	650,000	-	-	-	-	650,000
IIWWTP ICS Replacement Program	300,000	100,000	-	-	-	400,000
IIWWTP Influent Gate Refurbishment	350,000	300,000	150,000	-	-	800,000
IIWWTP IPS Drive Remediation	600,000	500,000	200,000	-	-	1,300,000
IIWWTP MCC/Power Distribution Assess/Replace - Phase 2	100,000	200,000	-	-	-	300,000
IIWWTP PA-Sed Tank & Gallery Wall Refurbishment	300,000	-	-	-	-	300,000
IIWWTP Replacement of CoGen Control System	450,000	150,000	-	-	-	600,000
IIWWTP Siphon Chamber Refurbishment	850,000	450,000	-	-	-	1,300,000
IIWWTP Solids Handling Refurbishment	1,150,000	3,000,000	3,200,000	-	-	7,350,000
Iona Island Control & Instrumentation Replacement 2011	350,000	100,000	-	-	-	450,000
Jervis Pump Station 25kV Voltage Conversion	250,000	750,000	300,000	-	-	1,300,000
Kent Pump Station High Voltage Switchgear Replacement	-	650,000	1,000,000	350,000	-	2,000,000
LIWWTP CCT Isolation Gates	500,000	600,000	450,000	-	-	1,550,000
LIWWTP High Efficiency Boiler	850,000	250,000	100,000	-	-	1,200,000
LIWWTP ICS Component Replacement	50,000	-	-	-	-	50,000
LIWWTP ICS Replacement Program	1,650,000	1,300,000	1,000,000	1,100,000	300,000	5,350,000
LIWWTP PA-Sed Tank Refurbishment	1,050,000	1,000,000	1,000,000	900,000	-	3,950,000
LSA Flow Metering Program	50,000	50,000	50,000	-	-	150,000
Marshend PS Rehab	150,000	1,000,000	4,000,000	1,000,000	-	6,150,000
New West Interceptor - Annacis Section 2	3,100,000	4,100,000	5,600,000	5,600,000	5,700,000	24,100,000
New West Interceptor Grit Chamber	850,000	3,450,000	4,500,000	-	-	8,800,000
New Westminster Interceptor Repair Columbia St. Section	20,250,000	10,000,000	1,000,000	-	-	31,250,000
NLWWTP Screw Pump Replacement	400,000	100,000	-	-	-	500,000
North Surrey Interceptor Annieville Channel Crossing Scour Protection	450,000	-	-	-	-	450,000
NSA Flow Metering Program	300,000	200,000	-	-	-	500,000

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**LIQUID WASTE SERVICES**  
**2021 - 2025 CAPITAL PLAN**

	2021 CAPITAL BUDGET	2022 CAPITAL PLAN	2023 CAPITAL PLAN	2024 CAPITAL PLAN	2025 CAPITAL PLAN	2021 TO 2025 TOTAL
NSA Scour Protection Upgrades	-	550,000	1,200,000	500,000	-	2,250,000
NSI Rehab or Replacement	5,100,000	22,950,000	11,450,000	3,050,000	-	42,550,000
NWL WWTP 25 kV Substation Replacement	1,000,000	500,000	1,200,000	-	-	2,700,000
Ocean Park Trunk Crescent Section (OPC) Pipe Rehabilitation/Replacement	3,000,000	-	-	-	-	3,000,000
Ocean Park Trunk Manholes Lining	-	400,000	150,000	-	-	550,000
Port Coquitlam Pump Station Refurbishment	300,000	250,000	700,000	2,000,000	4,000,000	7,250,000
Port Moody Storm Drain Rehabilitation	-	50,000	400,000	600,000	600,000	1,650,000
Royal Ave PS Rehabilitation	1,000,000	2,000,000	2,000,000	450,000	-	5,450,000
Sewer Relocations and Protections at Fraser Surrey Docks	5,050,000	10,000,000	10,000,000	-	-	25,050,000
Sewer Relocations and Protections for Pattullo Bridge Replacement Project	5,300,000	500,000	250,000	-	-	6,050,000
SSI Influent Control Chamber Repair and Replace Gates	50,000	700,000	-	-	-	750,000
Surrey Corrosion Control Facility Replacement	1,200,000	-	-	-	-	1,200,000
VSA Flow Metering Program	2,000,000	2,000,000	900,000	-	-	4,900,000
Westridge FM Replacement	2,000,000	-	-	-	-	2,000,000
Westridge Pump Stations 1 & 2 Refurbishment	500,000	8,000,000	6,000,000	650,000	-	15,150,000
White Rock Forcemain Rehabilitation	450,000	500,000	7,750,000	-	-	8,700,000
Works Yard	4,000,000	-	-	-	-	4,000,000
	<b>\$ 193,050,000</b>	<b>\$ 168,950,000</b>	<b>\$ 129,100,000</b>	<b>\$ 59,750,000</b>	<b>\$ 44,100,000</b>	<b>\$ 594,950,000</b>
<b>SD Infrastructure Resilience Capital</b>						
AIWWTP Automation of Influent Gates	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
AIWWTP Cogeneration Backup Power	7,600,000	1,000,000	-	-	-	8,600,000
AIWWTP PST Area Walkway & Column Remediation	100,000	-	-	-	-	100,000
AIWWTP UPS Condition Monitoring System	400,000	100,000	-	-	-	500,000
Highbury Interceptor North Arm Crossing - Upgrade of Siphons	500,000	400,000	-	-	-	900,000
IIWWTP - Biogas Lines Relocation	1,450,000	-	-	-	-	1,450,000
IIWWTP Standby Diesel Generators	900,000	1,150,000	1,200,000	1,000,000	500,000	4,750,000
LIWWTP Power Reliability	2,300,000	-	-	-	-	2,300,000

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**LIQUID WASTE SERVICES**  
**2021 - 2025 CAPITAL PLAN**

	2021 CAPITAL BUDGET	2022 CAPITAL PLAN	2023 CAPITAL PLAN	2024 CAPITAL PLAN	2025 CAPITAL PLAN	2021 TO 2025 TOTAL
SSI Sulfide Odour and Corrosion Control	3,700,000	-	-	-	-	3,700,000
VSA Emergency Backup Power	4,500,000	4,500,000	2,000,000	1,300,000	-	12,300,000
	<b>\$ 21,500,000</b>	<b>\$ 7,150,000</b>	<b>\$ 3,200,000</b>	<b>\$ 2,300,000</b>	<b>\$ 500,000</b>	<b>\$ 34,650,000</b>
<b>SD Infrastructure Upgrade Capital</b>						
AIWWTP Ammonia Removal – Sidestream	\$ -	\$ 150,000	\$ -	\$ -	\$ -	\$ 150,000
AIWWTP Electrical Distribution System Protection Control and Monitoring	1,200,000	700,000	250,000	100,000	-	2,250,000
AIWWTP Replacement of Protective Relays	500,000	250,000	200,000	200,000	-	1,150,000
All WWTPs Power Quality Monitoring & Outage Alarming Network	600,000	200,000	-	-	-	800,000
Biosolids Dryer	2,500,000	-	10,000,000	39,000,000	59,000,000	110,500,000
Ferguson Road Paving Refurbishment	-	850,000	-	-	-	850,000
Glenbrook Combined Trunk Sewer Separation	100,000	-	-	-	-	100,000
IIWWTP Biosolids Dewatering Facility	6,250,000	3,250,000	-	-	-	9,500,000
IIWWTP Sludge Lagoons Dewatering Facility	1,650,000	-	-	-	-	1,650,000
LIWWTP Effluent Heat Recovery Project	1,800,000	4,300,000	2,400,000	1,500,000	-	10,000,000
New CSO Management Gates for New Westminster Interceptor	100,000	700,000	2,300,000	2,750,000	-	5,850,000
Ocean Park Trunk Sewer - Air Management Facility	2,000,000	750,000	2,500,000	2,500,000	-	7,750,000
WWTPs Electrical System Studies & Upgrades	250,000	500,000	300,000	400,000	250,000	1,700,000
	<b>\$ 16,950,000</b>	<b>\$ 11,650,000</b>	<b>\$ 17,950,000</b>	<b>\$ 46,450,000</b>	<b>\$ 59,250,000</b>	<b>\$ 152,250,000</b>
<b>SD Infrastructure Upgrade: Wastewater Treatment Capital</b>						
Iona Secondary Wastewater Treatment - Phase 1	\$ 30,000,000	\$ 65,000,000	\$ 110,000,000	\$ 215,000,000	\$ 330,000,000	\$ 750,000,000
North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning	396,278,000	106,637,000	137,415,000	37,986,000	8,013,000	686,329,000
	<b>\$ 426,278,000</b>	<b>\$ 171,637,000</b>	<b>\$ 247,415,000</b>	<b>\$ 252,986,000</b>	<b>\$ 338,013,000</b>	<b>\$ 1,436,329,000</b>
<b>SD Opportunity Capital</b>						
AIWWTP Hydrothermal Processing Pilot	\$ 2,700,000	\$ 9,250,000	\$ 3,800,000	\$ 2,100,000	\$ 500,000	\$ 18,350,000
Fraser Sewerage Area Integrated Resource Recovery (IRR) Study	100,000	150,000	500,000	450,000	-	1,200,000

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**LIQUID WASTE SERVICES**  
**2021 - 2025 CAPITAL PLAN**

	2021 CAPITAL BUDGET	2022 CAPITAL PLAN	2023 CAPITAL PLAN	2024 CAPITAL PLAN	2025 CAPITAL PLAN	2021 TO 2025 TOTAL
LIWWTP Biogas Clean-up Project	1,000,000	500,000	-	-	-	1,500,000
LIWWTP Pilot Digestion Optimization Facility	1,150,000	200,000	-	-	-	1,350,000
North Surrey Interceptor - Port Mann Section - Odour Control	1,000,000	1,100,000	2,000,000	3,050,000	-	7,150,000
	<b>\$ 5,950,000</b>	<b>\$ 11,200,000</b>	<b>\$ 6,300,000</b>	<b>\$ 5,600,000</b>	<b>\$ 500,000</b>	<b>\$ 29,550,000</b>
<b>TOTAL CAPITAL EXPENDITURES</b>	<b>\$ 934,528,000</b>	<b>\$ 692,887,000</b>	<b>\$ 741,115,000</b>	<b>\$ 924,486,000</b>	<b>\$ 912,213,000</b>	<b>\$ 4,205,229,000</b>

<b>2021 - 2025 CAPITAL FUNDING</b>						
New External Borrowing	\$ 557,528,000	\$ 519,887,000	\$ 581,115,000	\$ 648,486,000	\$ 628,213,000	\$ 2,935,229,000
Contribution to Capital	80,000,000	80,000,000	81,000,000	89,000,000	114,000,000	444,000,000
Development Cost Charges	45,000,000	56,000,000	60,000,000	51,000,000	-	212,000,000
Reserves	47,000,000	9,000,000	7,000,000	6,000,000	5,000,000	74,000,000
External Funding - Interagency	205,000,000	28,000,000	12,000,000	130,000,000	165,000,000	540,000,000
<b>Total</b>	<b>\$ 934,528,000</b>	<b>\$ 692,887,000</b>	<b>\$ 741,115,000</b>	<b>\$ 924,486,000</b>	<b>\$ 912,213,000</b>	<b>\$ 4,205,229,000</b>

<b>2021 - 2025 DEBT SERVICING TOTALS/RATIO</b>						
Operations	\$ 199,000,000	\$ 205,000,000	\$ 213,000,000	\$ 216,000,000	\$ 213,000,000	\$ 1,046,000,000
Debt Service - Existing	69,000,000	72,000,000	109,000,000	152,000,000	198,000,000	600,000,000
Debt Service - New	5,000,000	37,000,000	44,000,000	47,000,000	54,000,000	187,000,000
Contribution to Capital	80,000,000	80,000,000	81,000,000	89,000,000	114,000,000	444,000,000
<b>Total</b>	<b>\$ 353,000,000</b>	<b>\$ 394,000,000</b>	<b>\$ 447,000,000</b>	<b>\$ 504,000,000</b>	<b>\$ 579,000,000</b>	<b>\$ 2,277,000,000</b>
% Debt Service	<b>21%</b>	<b>28%</b>	<b>34%</b>	<b>39%</b>	<b>44%</b>	<b>35%</b>



**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
SOLID WASTE  
2021-2025 FINANCIAL PLAN**

	2020 BUDGET	2021 BUDGET	% CHANGE	2022 FORECAST	% CHANGE	2023 FORECAST	% CHANGE	2024 FORECAST	% CHANGE	2025 FORECAST	% CHANGE
<b>REVENUES</b>											
Solid Waste Tipping Fees	\$ 105,822,892	\$ 108,516,645	2.5%	\$ 112,961,596	4.1%	\$ 118,233,412	4.7%	\$ 124,343,566	5.2%	\$ 131,328,614	5.6%
Energy Sales	5,681,540	6,239,530		6,401,758		6,568,204		6,738,977		6,914,190	
Other External Revenues	2,584,192	3,756,396		5,293,674		6,316,991		6,373,148		6,423,975	
<b>TOTAL REVENUES</b>	<b>\$ 114,088,624</b>	<b>\$ 118,512,571</b>	<b>3.9%</b>	<b>\$ 124,657,028</b>	<b>5.2%</b>	<b>\$ 131,118,607</b>	<b>5.2%</b>	<b>\$ 137,455,691</b>	<b>4.8%</b>	<b>\$ 144,666,779</b>	<b>5.2%</b>
<b>EXPENDITURES</b>											
Operating Programs:											
Solid Waste Operations											
Allocated Quality Control	\$ 19,032	\$ 18,494		\$ 20,030		\$ 20,392		\$ 18,681		\$ 21,646	
Ashcroft Ranch	515,127	724,267		510,625		517,122		524,259		531,562	
Engineers in Training	103,806	93,013		94,835		96,694		99,109		101,467	
Landfills	33,342,259	34,180,437		32,477,814		33,146,101		33,720,538		35,571,181	
Transfer Station System	35,599,324	37,423,463		38,668,762		38,972,840		39,932,064		40,976,029	
Waste to Energy Facility	23,615,873	24,350,996		24,811,624		26,203,705		26,776,621		27,364,621	
	93,195,421	96,790,670	3.9%	96,583,690	(0.2%)	98,956,854	2.5%	101,071,272	2.1%	104,566,506	3.5%
Solid Waste Planning											
Policy and Facility Development	726,126	700,979		713,317		725,904		766,305		782,067	
Zero Waste Implementation	2,559,193	2,182,351		2,208,217		1,734,603		1,596,386		1,555,601	
Programs and Public Involvement	695,157	803,627		816,459		828,921		644,010		659,448	
	3,980,476	3,686,957	(7.4%)	3,737,993	1.4%	3,289,428	(12.0%)	3,006,701	(8.6%)	2,997,116	(0.3%)
Administration and Department Support	637,780	649,291	1.8%	660,741	1.8%	672,422	1.8%	680,307	1.2%	663,691	(2.4%)
Environmental Regulation and Enforcement	958,874	934,630	(2.5%)	933,668	(0.1%)	933,091	(0.1%)	955,686	2.4%	977,295	2.3%
Allocation of Centralized Support	4,690,785	4,740,158	1.1%	4,571,852	(3.6%)	4,798,518	5.0%	4,973,089	3.6%	5,000,574	0.6%
Total Operating Programs	103,463,336	106,801,706	3.2%	106,487,944	(0.3%)	108,650,313	2.0%	110,687,055	1.9%	114,205,182	3.2%
Allocation of Project Delivery	-	327,502	0.0%	326,533	(0.3%)	276,290	(15.4%)	280,014	1.3%	285,437	1.9%
Debt Service	4,837,308	6,946,790	43.6%	15,227,286	120.0%	19,916,504	30.8%	23,903,976	20.0%	25,206,089	5.4%
Contribution to Capital	5,787,980	4,436,573	(23.3%)	2,615,265	(41.1%)	2,275,500	(13.0%)	2,584,646	13.6%	4,970,071	92.3%
<b>TOTAL EXPENDITURES</b>	<b>\$ 114,088,624</b>	<b>\$ 118,512,571</b>	<b>3.9%</b>	<b>\$ 124,657,028</b>	<b>5.2%</b>	<b>\$ 131,118,607</b>	<b>5.2%</b>	<b>\$ 137,455,691</b>	<b>4.8%</b>	<b>\$ 144,666,779</b>	<b>5.2%</b>

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**SOLID WASTE**  
**2021 - 2025 CAPITAL PLAN**

	2021 CAPITAL BUDGET	2022 CAPITAL PLAN	2023 CAPITAL PLAN	2024 CAPITAL PLAN	2025 CAPITAL PLAN	2021 TO 2025 TOTAL
<b>CAPITAL EXPENDITURES</b>						
<b>SW Landfills Capital</b>						
Alternative Fuel and Recyclables Recovery Centre	\$ -	\$ -	\$ -	\$ 1,500,000	\$ 20,000,000	\$ 21,500,000
Coquitlam Landfill Closure	1,000,000	-	-	-	-	1,000,000
Coquitlam Landfill East Closure	-	400,000	3,500,000	1,100,000	-	5,000,000
Coquitlam Landfill Fly Ash Cell 2 Closure Final Cover	650,000	-	-	-	-	650,000
Coquitlam Landfill Gas Collection Upgrades	800,000	-	-	-	-	800,000
Coquitlam Landfill Lot 3 Development	4,000,000	-	-	-	-	4,000,000
Coquitlam Landfill Pump Station Upgrade	400,000	-	-	-	-	400,000
Coquitlam Landfill: Leachate Collection System Grade Realignment	550,000	300,000	-	-	-	850,000
	<u>\$ 7,400,000</u>	<u>\$ 700,000</u>	<u>\$ 3,500,000</u>	<u>\$ 2,600,000</u>	<u>\$ 20,000,000</u>	<u>\$ 34,200,000</u>
<b>SW Opportunity Capital</b>						
WTE Facility District Heating Opportunities	\$ 2,050,000	\$ -	\$ -	\$ -	\$ -	\$ 2,050,000
	<u>\$ 2,050,000</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 2,050,000</u>
<b>SW Transfer Stations Capital</b>						
Coquitlam Transfer Station Compactor Replacement	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 300,000
Coquitlam Transfer Station Replacement	19,000,000	-	-	-	-	19,000,000
Langley Transfer Station Recycling Depot Expansion	250,000	3,000,000	2,250,000	-	-	5,500,000
Maple Ridge Transfer Station Upgrades	2,000,000	-	-	-	-	2,000,000
North Shore Transfer Station Compactor Replacement	-	-	-	-	2,500,000	2,500,000
Surrey Recycling and Waste Drop-Off	21,000,000	18,000,000	-	-	-	39,000,000
Surrey Transfer Station Compactor Replacement	-	2,500,000	-	-	-	2,500,000
Surrey Transfer Station Recycling Depot Expansion	20,250,000	3,000,000	2,250,000	-	-	25,500,000
Western Region Transfer Station Replacement	-	-	-	-	5,000,000	5,000,000
	<u>\$ 62,800,000</u>	<u>\$ 26,500,000</u>	<u>\$ 4,500,000</u>	<u>\$ -</u>	<u>\$ 7,500,000</u>	<u>\$ 101,300,000</u>

**GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT**  
**CAPITAL PROGRAMS & PROJECT TOTALS**  
**SOLID WASTE**  
**2021 - 2025 CAPITAL PLAN**

	2021 CAPITAL BUDGET	2022 CAPITAL PLAN	2023 CAPITAL PLAN	2024 CAPITAL PLAN	2025 CAPITAL PLAN	2021 TO 2025 TOTAL
<b>SW Waste to Energy Facility Capital</b>						
Acid Gas Reduction	\$ 2,800,000	\$ 17,750,000	\$ 20,000,000	\$ -	\$ -	\$ 40,550,000
Biosolids Processing	10,100,000	10,000,000	-	-	-	20,100,000
Bottom Ash Crane Replacement	250,000	750,000	500,000	-	-	1,500,000
Bottom Ash Processing	600,000	-	-	-	-	600,000
Carbon Silo Replacement	-	1,200,000	1,200,000	-	-	2,400,000
Compressed Air System Replacement	100,000	1,400,000	1,500,000	-	-	3,000,000
Electrical Transformers Replacement	-	200,000	4,500,000	300,000	-	5,000,000
Fabric Filter Hopper and Pulse Header Refurbishment	250,000	500,000	1,500,000	-	-	2,250,000
Feed Hopper/Chute	1,000,000	-	-	-	-	1,000,000
Fly Ash Silo Refurbishment	-	100,000	500,000	400,000	-	1,000,000
Generation Bank Replacement	-	-	6,000,000	3,000,000	-	9,000,000
Lime Silo Replacement	-	1,800,000	1,800,000	-	-	3,600,000
Primary Economizer Replacement	4,000,000	-	-	-	-	4,000,000
Primary Superheaters Replacement	-	100,000	2,000,000	1,000,000	900,000	4,000,000
Programmable Logic Controllers Replacement	-	500,000	500,000	500,000	500,000	2,000,000
Pug Mill Enclosure Ventilation System Replacement	-	500,000	500,000	-	-	1,000,000
Refuse Crane	3,900,000	5,000,000	5,000,000	-	-	13,900,000
Secondary Economizers Replacement	-	250,000	1,750,000	3,000,000	1,000,000	6,000,000
Stack Refurbishment	-	-	350,000	-	-	350,000
WTE Facility District Heating	1,000,000	9,000,000	10,000,000	20,000,000	-	40,000,000
	<u>\$ 24,000,000</u>	<u>\$ 49,050,000</u>	<u>\$ 57,600,000</u>	<u>\$ 28,200,000</u>	<u>\$ 2,400,000</u>	<u>\$ 161,250,000</u>
<b>TOTAL CAPITAL EXPENDITURES</b>	<u>\$ 96,250,000</u>	<u>\$ 76,250,000</u>	<u>\$ 65,600,000</u>	<u>\$ 30,800,000</u>	<u>\$ 29,900,000</u>	<u>\$ 298,800,000</u>

GREATER VANCOUVER SEWERAGE & DRAINAGE DISTRICT  
CAPITAL PROGRAMS & PROJECT TOTALS  
SOLID WASTE  
2021 - 2025 CAPITAL PLAN

	2021 CAPITAL BUDGET	2022 CAPITAL PLAN	2023 CAPITAL PLAN	2024 CAPITAL PLAN	2025 CAPITAL PLAN	2021 TO 2025 TOTAL
<b>2021 - 2025 CAPITAL FUNDING</b>						
New External Borrowing	\$ 95,250,000	\$ 63,250,000	\$ 52,600,000	\$ 8,800,000	\$ 26,900,000	\$ 246,800,000
Reserves	-	4,000,000	3,000,000	2,000,000	3,000,000	12,000,000
External Funding - Interagency	1,000,000	9,000,000	10,000,000	20,000,000	-	40,000,000
<b>Total</b>	<b>\$ 96,250,000</b>	<b>\$ 76,250,000</b>	<b>\$ 65,600,000</b>	<b>\$ 30,800,000</b>	<b>\$ 29,900,000</b>	<b>\$ 298,800,000</b>
<b>2021 - 2025 DEBT SERVICING TOTALS/RATIO</b>						
Operations	\$ 107,000,000	\$ 107,000,000	\$ 109,000,000	\$ 111,000,000	\$ 114,000,000	\$ 548,000,000
Debt Service - Existing	5,000,000	7,000,000	15,000,000	20,000,000	24,000,000	71,000,000
Debt Service - New	2,000,000	8,000,000	5,000,000	4,000,000	1,000,000	20,000,000
Contribution to Capital	4,000,000	3,000,000	2,000,000	3,000,000	5,000,000	17,000,000
<b>Total</b>	<b>\$ 118,000,000</b>	<b>\$ 125,000,000</b>	<b>\$ 131,000,000</b>	<b>\$ 138,000,000</b>	<b>\$ 144,000,000</b>	<b>\$ 656,000,000</b>
% Debt Service	6%	12%	15%	17%	17%	14%

**2021 RESERVE APPLICATIONS - METRO VANCOUVER DISTRICTS****2021 Budget - Proposed Application And Transfers of Reserves (To Be Approved by the Board in October 2020)**

Function	Description	Reserve Name	Discretionary Reserves	Statutory Reserves
<b>PROPOSED APPLICATIONS</b>				
<b>GVS &amp; DD</b>				
Liquid Waste				
	Fund Liquid Waste Services SIF Projects	Liquid Waste Services SIF Reserve		\$ 1,157,001
	Fund Movement of Biosolids from Stockpiles	Biosolids Inventory Reserve	5,029,789	
	Fund Drainage Equipment, Projects and Initiatives	Drainage General Reserve	80,000	
	<b>TOTAL PROPOSED APPLICATIONS</b>		<b>\$ 5,109,789</b>	<b>\$ 1,157,001</b>

To: Metro Vancouver Districts Boards of Directors  
 Metro Vancouver Housing Corporation Board of Directors

From: Jerry Dobrovlny, Commissioner/Chief Administrative Officer  
 Dean Rear, General Manager, Financial Services/Chief Financial Officer

Date: October 26, 2020 Meeting Date: October 30, 2020

Subject: **2021 - 2025 Financial Plan – Metro Vancouver Districts and Housing Corporation**

The 2021 - 2025 Financial Plans for the Metro Vancouver Regional District (MVRD), Greater Vancouver Water District (GVWD), Greater Vancouver Sewerage and Drainage District (GVS&DD) and Metro Vancouver Housing Corporation (MVHC) have been prepared following the direction received at the June 5, 2020 and October 21, 2020 Board Budget Workshops. In response to feedback and direction provided by the Board at the Board Budget Workshop on October 21, 2020, the attached documents contain an adjusted the 2021 budget and 2021 - 2025 Financial Plan structured to maintain the 15-year amortization period contained in the Financial Management Policy.

OVERALL HOUSEHOLD IMPACT 2021-2025						
	2020	2021	2022	2023	2024	2025
Water	\$ 172	\$ 174	\$ 182	\$ 191	\$ 207	\$ 226
Liquid Waste	264	272	297	326	361	411
Solid Waste	61	61	63	65	67	70
Regional District	63	70	73	77	81	82
<b>Total Household Impact</b>	<b>\$ 560</b>	<b>\$ 577</b>	<b>\$ 615</b>	<b>\$ 659</b>	<b>\$ 716</b>	<b>\$ 789</b>
<b>Recommendation (15 yr) % Change</b>		<b>3.2%</b>	<b>6.4%</b>	<b>7.3%</b>	<b>8.5%</b>	<b>10.4%</b>
<b>Alternative (30 yr) % Change</b>		<b>3.2%</b>	<b>4.2%</b>	<b>5.2%</b>	<b>8.8%</b>	<b>9.4%</b>
<i>Prior Year % Change</i>		7.4%	9.0%	8.0%	6.7%	
<i>Prior Year Forecast</i>		\$ 602	\$ 655	\$ 708	\$ 755	

The result of this change adjusts the Household Impact in years 2022 to 2025 of the plan. Staff will continue to work over the next year to evaluate where budget amendments and strategies can be implemented to reduce the burden on the rate-payers of the region, in line with board feedback received during the 2021 process.

To: Metro Vancouver Districts Boards of Directors  
Metro Vancouver Housing Corporation Board of Directors

From: Jerry Dobrovlny, Commissioner/Chief Administrative Officer  
Dean Rear, General Manager, Financial Services/Chief Financial Officer

Date: October 14, 2020 Meeting Date: October 21, 2020

Subject: **2021 - 2025 Financial Plan – Metro Vancouver Districts and Housing Corporation**

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### **RECOMMENDATION**

That the Board endorse the 2021 Budget and 2021 - 2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation, as presented, and direct staff to prepare the necessary budget information to be presented at the October 30, 2020 Metro Vancouver Districts and Housing Corporation Board meetings for consideration.

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### **EXECUTIVE SUMMARY**

The 2021 Budget and the 2021 - 2025 Financial Plan focusses on the short term as the region and the organization continues to adapt to the challenges of a global pandemic. Ongoing uncertainty requires that Metro Vancouver continuously evaluate and adapt until the challenges and conditions become clearer, while working to support the region through it to come out stronger.

As proposed, the 2021 budget has total operating expenditures of \$939.5 million, \$28 million less than that proposed for 2021 in the previous cycle. For the year, the average household impact is projected to increase by \$17 for a total of \$577. This represents a 3.2% over the prior year.

Options in this budget for consideration by the Board include:

- Continuing to amortize debt issued over 15 years as per the *Financial Management Policy*, or amortize debentures issued over the next two years over 30 years in order to reduce the short term impact for 2022 and 2023.
- Continuing the practice of applying the change to the water rate equally between the peak and off-peak rates, or maintaining the non-peak rate and adding all the necessary increase to the peak rate in order to enhance demand-side management initiatives in support of delaying capital projects, where plausible.

### **PURPOSE**

To present the 2021 Budget and 2021 - 2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation for consideration.

### **BACKGROUND**

The 2021 - 2025 Financial Plans for the Metro Vancouver Regional District (MVRD), Greater Vancouver Water District (GVWD), Greater Vancouver Sewerage and Drainage District (GVS&DD) and Metro Vancouver Housing Corporation (MVHC) have been prepared following the direction received at the June 5, 2020 Board Budget Workshop.

The Board Budget Workshop was held with the objective to seek direction for the preparation of the 2021 - 2025 Financial Plan. The workshop outlined the principles that guide the work of Metro Vancouver as an organization, the current 2020 - 2024 Financial Plan, the implications of the COVID-19 pandemic, the tools that can be used to make budget adjustments, and a proposed approach for the 2021 - 2025 Financial Plan.

Staff proposed leveraging the supported tools to create a short-term action plan that would lessen the upward pressure on household impact for 1-3 years. A short-term action plan would enable strategic goals and objectives to be maintained. If larger or more long-term adjustments are desired, a re-evaluation of long-term plans such as the *Metro Vancouver Housing Plan*, *Climate 2050*, or the *Liquid Waste Management Plan* would be required. Since an annual budget is approved, this approach will allow for adjustments to be made each year as conditions evolve based on market changes and other factors. The use of the tools will aim to avoid making severe changes that cannot be easily corrected in the short-term.

During the month of October, the 2021 - 2025 Financial Plans for Metro Vancouver's four legal entities were presented to the following ten Board Standing Committees for the individual functions that fall under the oversight of those Committees:

- Indigenous Relations
- Climate Action
- Electoral Area
- Finance and Intergovernment
- Housing
- Regional Parks
- Regional Planning
- Water
- Liquid Waste
- Zero Waste

The Metro Vancouver Standing Committees were presented with individual reports covering the 2021 Budget and 2021 - 2025 Financial Plans for each function including program highlights and financial plan highlights (see Item 3.1). The reports included financial information for multiple years as well as a "What's Happening" summary page that described the key activities projected over the five-year period of the financial plan. Each Committee has reviewed and endorsed their individual financial plans and provided comments and direction where appropriate for consideration by the Board at the October 21, 2020 Board Budget Workshop.

The 2021 Budget and 2021 - 2025 Financial Plans reflect alignment with the legislative authority of the individual Districts and functions. Prepared with the direction provided at the Board Budget Workshop on June 5, 2020, the Financial Plan supports the vision and mission as articulated in the *Board Strategic Plan* and the corresponding Regional Management Plans. The 2021 - 2025 Financial Plan focusses on the next three years as the region adjusts to the realities of a pandemic and works to support the region through it, and come out stronger.

This report is being brought forward to present the overall 2021 - 2025 Financial Plan for Metro Vancouver Districts and Housing Corporation (representing the four legal entities: MVRD, GVWD, GVS&DD, MVHC) for consideration and to forward to the Board meeting on October 30, 2020 for approval.



## DEVELOPMENT OF 2021 BUDGET AND FIVE-YEAR FINANCIAL PLAN

The *Metro Vancouver Proposed 2021 - 2025 Financial Plan* (Attachment 1) provides the financial details of the proposed 2021 Budget and 2021 - 2025 Financial Plan including financial information by sub-region for the GVS&DD sewerage areas. The attachment also shows the impact of the plan on the cost to the average regional household by those sub-regions to assist member local governments in anticipating the financial impact of Metro Vancouver services to their communities.

The budget and the five-year financial plans are built upon five central themes that guide the development of Metro Vancouver's long term plans and budgets:

- Financial Sustainability
- Regional Growth
- Environmental Sustainability
- System Stewardship
- Regulatory and Legislative Environment

The Metro Vancouver financial planning process is also framed by a number of Board policies including:

- the *Financial Management Policy*
- the *Corporate Allocation Policy*
- the *Operating, Statutory and Discretionary Reserves Policy*
- the Asset Management policies for individual functions

The 2021 Budget and 2021 - 2025 Financial Plan includes variations to temporarily move away from the principles of some of these policies based on the direction provided at the Board Budget Workshop on June 5<sup>th</sup>. These variations form the basis of the three-year action plan that maintains the goals and objectives of Metro Vancouver while using key financial tools to minimize impact to the ratepayers of the region.

### Economic Uncertainty

As there is a significant amount of uncertainty going forward, the 2021 Budget and 2021 - 2025 Financial Plan has been constructed to help the region withstand some of that uncertainty in the short term until the challenges and conditions become clearer. The key task for the organization is to be responsive, but to not over respond so as to significantly risk long term fiscal sustainability.

The duration and depth of the impact of the pandemic is unknown, however there are a variety of estimates of the economic future, some of which are shown below:

GDP GROWTH ESTIMATES			
Source	2020	2021	2022
Conference Board of Canada (Metro Vancouver GDP Growth)	(3.0%) Contraction	6.5%	2.5%
Central 1 Credit Union (BC GDP Growth)	(6.1%) Contraction	4.0%	3.4%
Parliamentary Budget Office (Canada GDP Growth)	(5.2%) Contraction	4.7%	2.8%

The first three years of the 2021 - 2025 Financial Plan utilizes financial tools to mitigate the impact on the ratepayers of the region. As the financial planning process is an annual cycle, economic conditions will be considered each year as the approach to the budget and utilization of financial tools are considered.

### **Financial Tools - Key Assumptions and Alternatives**

#### Debt Amortization

The *Financial Management Policy* sets the amortization term for any debentures issued to be 15 years. This is a sound practice as it minimizes the amount of interest on borrowing and therefore contributes to keeping the overall cost of services lower. The Proposed 2021 - 2025 Financial Plan assumes choosing 30-year amortization for debentures issued in 2021 and 2022. With the delay in sinking fund payments for debentures, this means that there is no impact from this policy variance for 2021, and that the overall household impact for 2021 would still have an increase of only 3.2%. Without this variance, the average increase to the household impact would change from 4.2% to 6.4% in 2022, and from 5.2% to 7.3% in 2023.

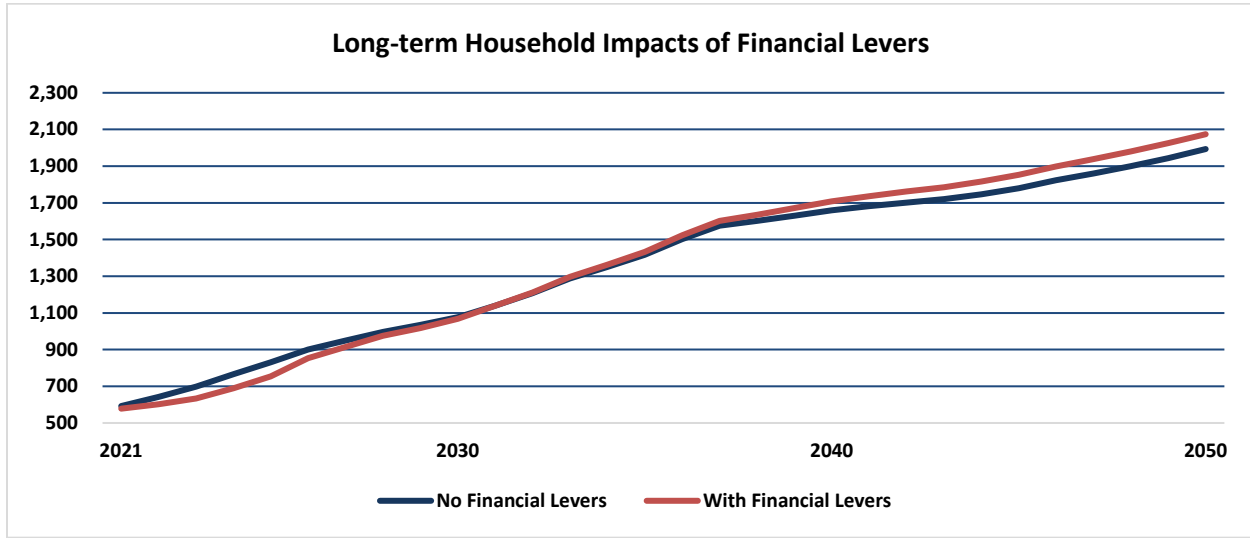
Overall, in dollar terms, opting for a 30-year amortization period for debt required in 2021/22 creates an increase in the overall cost of the planned capital program of \$815 million due to increased interest costs. In context, this would represent approximately 3% of overall capital expenditures during that 30-year timeframe.

#### Reducing “Pay as You Go” Funding

Just under 30% of the Operating Budget is for Contribution to Capital, which is “Pay as You Go” funding for capital projects. The *Financial Management Policy* promotes increasing this so as to reduce the reliance on borrowing, particularly for capital maintenance for significant utility infrastructure.

The 2020 - 2024 Financial Plan had Contribution to Capital projected at \$275.9 million for 2021, whereas the Proposed 2021 - 2025 Financial Plan projects \$256.8 million for 2021 and is a significant part of the \$28 million reduction in the 2021 budget from that which was projected in the prior cycle. However, reducing “Pay as You Go” funding means that there will be a need for greater borrowing, which will also contribute to increased costs in the future.

These are uncertain and unprecedented times which may require thinking contrary to what seemed right just a few months ago. While interest rates for borrowing are very low, the decision to support variations from the *Financial Management Policy* must be made with the clear understanding that it will impact future costs, shifting the future household impact higher. This is illustrated below:



The Proposed 2021 – 2025 Financial Plan assumes that Metro Vancouver returns to *Financial Management Policy* principles in 2024/25.

### Moving Forward with the Capital Plan

Direction provided during the Board Budget Workshop that was held on June 5<sup>th</sup> was clear that while there wasn't a desire to move away from key strategic directions at this time, it was expected that capital projects be evaluated. Much of the capital plan in the utilities is multiyear in nature, with a majority of the projects in the previous five-year plan relating to projects currently in progress. This is illustrated in the table below:

METRO VANCOUVER CAPITAL PLAN PROGRESS				
2020	2021	2022	2023	2024
\$1.41 Billion Spend	\$1.35 Billion Spend (projected)	\$1.13 Billion Spend (projected)	\$1.19 Billion Spend (projected)	\$1.25 Billion Spend (projected)
90% committed to projects underway	80% already committed to projects underway	78% already committed to projects underway	71% already committed to projects underway	66% already committed to projects underway

Through the budget process, over 300 projects were reviewed which resulted in more than \$400 million in projects from the prior five-year capital plan being deferred. While this is not insignificant, with many complex and broad projects, work still remains to determine if there are further opportunities to re-scope or retime projects. This is a priority as additional work on demand side management and an enhanced approach to project delivery are two ways that Metro Vancouver is working to maximize value for money in regional infrastructure investment.

As an example, during this financial planning cycle, adjustments have been made to planned timing for Coquitlam intake #2 and its related infrastructure, allowing additional time to determine if additional conservation efforts will result in further timing deferrals on such a regionally significant project.

## HOUSEHOLD IMPACT

Household Impact is the key budget metric for Metro Vancouver. It estimates the impact of Metro Vancouver services on the average regional household based on services used.

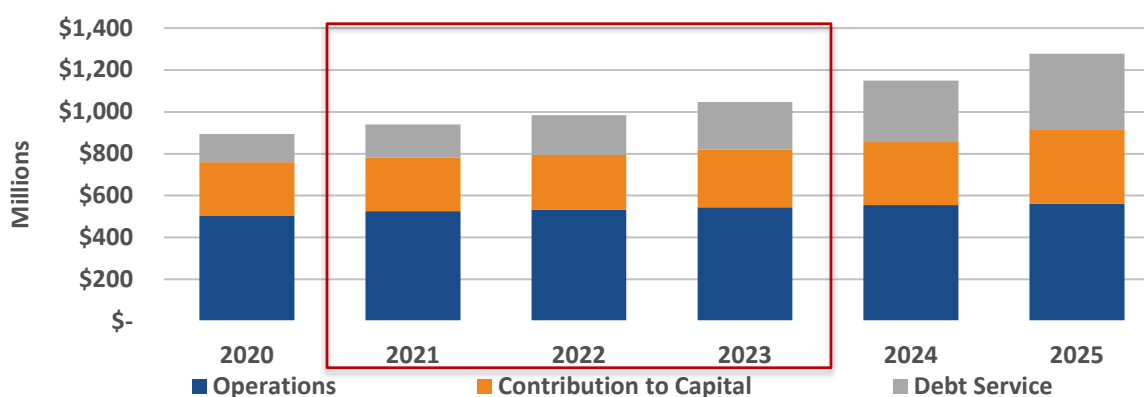
The projection for 2021 in the 2020 - 2024 was for an increase in the household impact of \$42 to a total of \$602. For this cycle, the household impact for 2021 is projected to increase by \$17 for a total of \$577. The total household impact compared to that projected in the previous financial plan is set out in the table below:

OVERALL HOUSEHOLD IMPACT 2021-2025						
	2020	2021	2022	2023	2024	2025
Water	\$ 172	\$ 174	\$ 178	\$ 182	\$ 197	\$ 217
Liquid Waste	264	272	289	310	344	385
Solid Waste	61	61	63	65	67	70
Regional District	63	70	73	77	81	82
<b>Total Household Impact</b>	<b>\$ 560</b>	<b>\$ 577</b>	<b>\$ 603</b>	<b>\$ 634</b>	<b>\$ 689</b>	<b>\$ 754</b>
<b>30 Year Amortization % Change</b>		<b>3.2%</b>	<b>4.2%</b>	<b>5.2%</b>	<b>8.8%</b>	<b>9.4%</b>
<b>15 Year Amortization % Change</b>		<b>3.2%</b>	<b>6.4%</b>	<b>7.3%</b>	<b>9.9%</b>	<b>11.5%</b>
<i>Prior Year Forecast</i>		\$ 602	\$ 655	\$ 708	\$ 755	
<i>Prior Year % Change</i>		7.4%	9.0%	8.0%	6.7%	

## FINANCIAL PLAN OVERVIEW

As proposed, the 2021 - 2025 Financial Plan has total operating expenditures for 2021 of \$939.5 million (prior projected: \$967.5 million) with projected capital expenditures of just over \$1,524.7 million as summarized in the tables below:

### Operating Budget



The overall Metro Vancouver Operating budget can be categorized into Operations, Debt Service and Contributions to Capital.

**Operations** – These are the basic inputs for all of the services that Metro Vancouver provides – materials, supplies, labour, energy, chemicals, contractors etc. This makes up about 56% of the proposed 2021 operating budget and is projected to increase on average by about 2.2% over the term of the plan. This is essentially inflationary, especially taking into consideration regional growth.

**Debt Service** – This represents about 17% of the proposed 2021 operating budget. Much of the capital program is funded through borrowing and thus debt servicing is a function of the size of that capital program, thus the growth that is projected over the five-year term. The proposed budget assumes that debt issued in 2021 and 2022 would undertake an amortization term of 30 years, whereas normally it would be 15 years. This is one of the financial tools which has been used to soften the household impact over the short term.

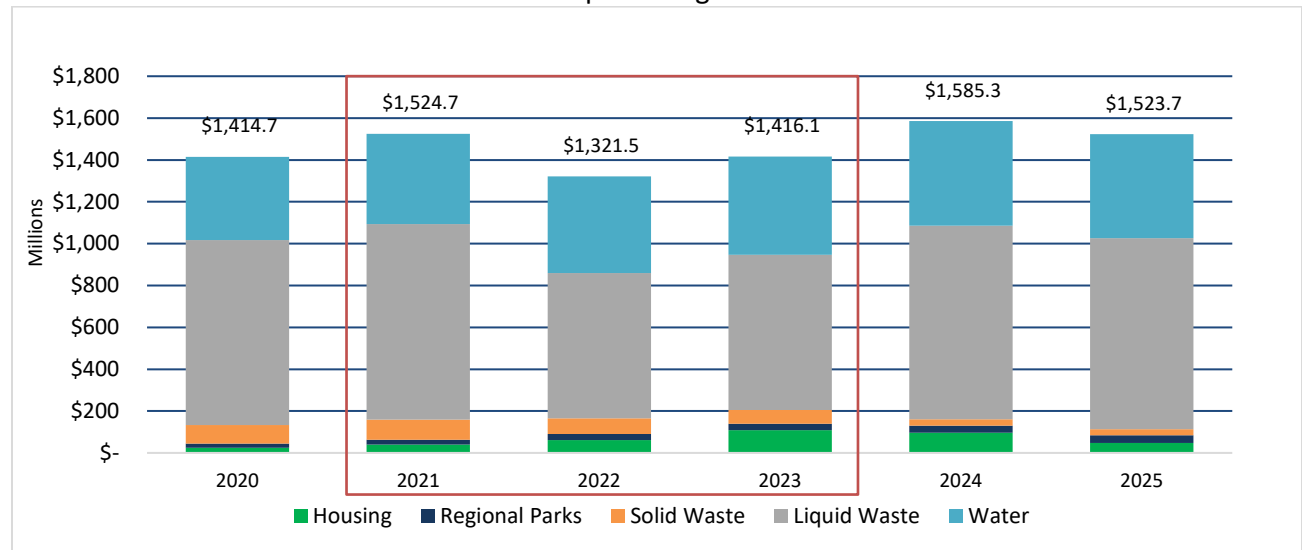
**Contribution to Capital** – This is the “Pay as You Go” funding for the capital program which is a key factor in avoiding debt and keeping long term costs as low as possible. This represents about 27% of the proposed 2021 operating budget, and the easing of this program is the other key financial tool which has been used to soften the impact over 2021, 2022 and 2023.

The 2021 – 2025 Metro Vancouver Districts Operating Budget is summarized in the table below.

2021-2025 METRO VANCOUVER DISTRICTS OPERATING BUDGET						
\$ Millions	2020	2021	2022	2023	2024	2025
<b>Revenues</b>						
Water Sales	\$ 307.2	\$ 316.3	\$ 325.5	\$ 337.0	\$ 370.3	\$ 413.2
Liquid Waste Services Levy	274.2	288.2	311.0	339.6	383.9	437.0
Solid Waste Tipping Fees	105.8	108.5	113.0	118.2	124.3	131.3
Housing Rents	40.4	41.3	41.8	44.4	44.8	47.4
MVRD Requisitions	71.8	80.9	86.4	92.9	99.0	102.2
Other Revenue	37.9	41.1	43.4	44.8	45.6	45.1
Transfer from Reserves	57.0	63.2	63.9	70.0	81.5	101.9
<b>Total Revenues</b>	<b>\$ 894.3</b>	<b>\$ 939.5</b>	<b>\$ 985.0</b>	<b>\$ 1,046.9</b>	<b>\$ 1,149.4</b>	<b>\$ 1,278.1</b>
<b>Expenditures</b>						
Water Services	\$ 310.4	\$ 318.6	\$ 327.4	\$ 338.9	\$ 372.3	\$ 414.1
Liquid Waste Services	330.2	353.4	379.4	414.5	470.3	543.2
Solid Waste Services	114.1	118.5	124.7	131.1	137.5	144.7
MVHC	52.3	53.7	54.7	57.6	58.4	62.1
MVRD	87.3	95.3	98.8	104.8	110.9	114.0
<b>Total Expenditures</b>	<b>\$ 894.3</b>	<b>\$ 939.5</b>	<b>\$ 985.0</b>	<b>\$ 1,046.9</b>	<b>\$ 1,149.4</b>	<b>\$ 1,278.1</b>

## Capital Budget

The 2021 - 2025 Metro Vancouver Districts Capital Budget is summarized in the table below.



The 2021 - 2025 Capital plan includes over \$200 million of capital cost being carried forward as incomplete from 2020. Further, through the review of the capital projects through this budget cycle, over \$400 million of projects were deferred from the previous capital plan. In this financial plan, the housing team has over \$350 million for projects either underway or in planning to meet the objectives of the affordable housing plan.

## ALTERNATIVES

1. That the Board endorse the 2021 Budget and 2021 -2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation, as presented, and direct staff to prepare the necessary budget information to be presented at the October 30, 2020 Metro Vancouver Districts and Housing Corporation Board meetings for consideration.
2. That the Board direct staff to:
  - a) Amend the 2021 -2025 Financial Plan to maintain 15-year amortization for debt servicing, changing the projected average increase to the household impact from 4.2% to 6.4% in 2022, and from 5.2% to 7.3% in 2023, and
  - b) Prepare the necessary budget information to be presented at the October 30, 2020 Metro Vancouver Districts and Housing Corporation Board meetings for consideration.
3. That the Board make recommendations to amend the 2021 Budget and 2021 -2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation, as presented, and endorse the 2021 Budget and 2021 -2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation as amended.

## FINANCIAL IMPLICATIONS

If the Board endorses the 2021 Budget and 2021 - 2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation as presented under alternative one, the cost to the average

regional household will increase by \$17 in 2021 for a total impact of \$577 for all Metro Vancouver services.

The Board may wish to consider recommending amendments to the financial plan to reflect program priorities. Any proposed changes could require an update to the revenues required to fund the priorities in the plan.

### **SUMMARY / CONCLUSION**

During the first two weeks of October, the 2021 Budget and 2021 - 2025 Financial Plans for Metro Vancouver's legal entities and functions were presented to the following ten Board Standing Committees for the individual functions that fall under the oversight of those Committees:

- Indigenous Relations
- Climate Action
- Electoral Area
- Finance and Intergovernment
- Housing
- Regional Parks
- Regional Planning
- Water
- Liquid Waste
- Zero Waste

The Metro Vancouver Standing Committees were presented with individual reports covering the 2021 Budget and 2021 - 2025 Financial Plans for each function including program highlights, financial plan highlights, financial information for multiple years as well as a "What's Happening" summary page that described the key activities projected over the five-year period of the financial plan. Each Committee reviewed and endorsed their individual financial plans and provided comments and direction where appropriate for consideration by the Board at the October 21, 2020 Board Budget Workshop.

Within this report, the 2021 Budget and 2021 - 2025 Financial Plan for the Metro Vancouver Districts and Housing Corporation have been consolidated for Board consideration and present the overall financial forecast for Metro Vancouver over the next five years. The proposed Financial Plan includes significant capital investment that will be required if Metro Vancouver and its member jurisdictions are to meet the growth and regulatory demands of the region over the coming years. For 2020, the plan represents a \$17 in 2021 for a total impact of \$577 for all Metro Vancouver services.

Staff recommend endorsing the 2021 Budget and 2021 - 2025 Financial Plan as presented under alternative one.

### **Attachments:**

1. Proposed 2021 - 2025 Financial Plan
2. GVWD Summary
3. GVS&DD Summary
4. MVHC Summary
5. MVRD Summary
6. Budget in Brief

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To: Zero Waste Committee

From: Allen Jensen, Project Engineer, Solid Waste Services

Date: October 9, 2020 Meeting Date: October 16, 2020

Subject: **GVS&DD Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020**

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**RECOMMENDATION**

That the GVS&DD Board:

- a) approve the following amendments to the Tipping Fee Bylaw effective January 1, 2021:
    - i. Tipping fees to change as follows:
      - i. Tipping fees for garbage (per tonne):

Municipal garbage	\$117
Up to 1 tonne	\$151
1 tonne to 9 tonnes	\$129
9 tonnes and over	\$103
      - ii. Generator levy at \$48 per tonne (included in Tipping Fee);
  - b) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020*; and
  - c) pass and finally adopt *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020*.
- 

**EXECUTIVE SUMMARY**

The *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017* (Tipping Fee Bylaw) sets rates and requirements at Metro Vancouver solid waste facilities. The bylaw is typically amended or replaced on an annual basis as changes are needed. This report proposes increasing 2021 tipping fees for garbage by \$4 per tonne for all waste categories. This equates to an approximately 3% increase in the average disposal rate. The proposed tipping fee increase is \$3 per tonne less than what was projected for 2021 in the 2020-2024 Financial Plan. The report also proposes increasing the generator levy by \$6 per tonne (included in the tipping fee at Metro Vancouver and City of Vancouver facilities).

**PURPOSE**

To seek Board approval to amend the Tipping Fee Bylaw to set garbage tipping fees for 2021.

**BACKGROUND**

The current Tipping Fee Bylaw is a consolidation of *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017* and a series of subsequent amendment bylaws.

This report proposes amending the Tipping Fee Bylaw to make changes to the garbage tipping fees and the generator levy.



## **TIPPING FEE BYLAW CHANGES**

The proposed changes to the Tipping Fee Bylaw include:

- increase the garbage tipping fees by \$4 per tonne or approximately 3%; and
- increase the generator levy by \$6 per tonne to \$48 per tonne (included in tipping fee for loads delivered to Metro Vancouver and City of Vancouver disposal facilities).

No other changes are proposed for tipping or recycling fees or other requirements at Metro Vancouver solid waste facilities for 2021.

The proposed increase in garbage tipping fees are \$3 per tonne lower than the 2021 projections presented in the report titled “2020 – 2024 Financial Plan – Metro Vancouver Districts and Housing Corporation”, which was endorsed by the Board on October 23, 2019.

The generator levy is the fixed costs of the region’s transfer station network and solid waste planning and is incorporated into the garbage tipping fee for waste disposed at Metro Vancouver and City of Vancouver facilities. If a hauler delivers residential or commercial/institutional waste to another facility, the hauler is obligated to remit the generator levy to Metro Vancouver. The proposed increase in the generator levy of \$6 per tonne to \$48 per tonne is driven by increase in debt costs related to the development of the replacement Coquitlam Transfer Station and the Surrey Recycling and Waste Drop-Off, and includes an adjustment for capital expenditures from 2020.

The proposed amendments to the Tipping Fee Bylaw would take effect January 1, 2021. The amending bylaw is included as attachment 1 and a blackline version of the proposed changes is included as attachment 2.

If the proposed bylaw is approved, regional transfer station and disposal site customers, the public and other stakeholders will be advised through email notifications, website updates and communications at transfer stations and disposal sites.

## **ALTERNATIVES**

1. That the GVS&DD Board:

a) approve the following amendments to the Tipping Fee Bylaw effective January 1, 2021:

I. Tipping fees to change as follows:

i. Tipping fees for garbage (per tonne):

Municipal garbage	\$117
Up to 1 tonne	\$151
1 tonne to 9 tonnes	\$129
9 tonnes and over	\$103

ii. Generator levy at \$48 per tonne (included in Tipping Fee);

b) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020*; and

c) pass and finally adopt *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020*.

2. That the GVS&DD Board receive the report dated October 9, 2020, titled “*GVS&DD Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020*” and provide alternate direction to staff.

### **FINANCIAL IMPLICATIONS**

If the Board approves Alternative 1, these changes will be effective January 1, 2021. The Metro Vancouver solid waste function operates on a cost-recovery basis, with tipping fees funding over 90% of the Solid Waste Services budget, including the operation of the regional solid waste disposal system and Metro Vancouver zero waste planning initiatives. The garbage tipping fee is based on a number of factors including anticipated volume of waste received at regional facilities and system operating costs. The value of the generator levy is based on a variety of elements and contributes to the fixed costs of the region's transfer station network and solid waste planning (including waste reduction and recycling planning). The proposed garbage tipping fee and generator levy increases are required to balance the Solid Waste Services budget proposed for 2021.

If the Board does not approve the proposed changes to the Tipping Fee Bylaw, 2020 garbage tipping fees and the generator levy will remain in place and changes proposed in this report would not be implemented. If the garbage tipping fees and generator levy are not changed, the Solid Waste Services financial plan proposed for the next five years would need to be revised and the Solid Waste Services budget for 2021 would need to be adjusted prior to consideration by the Board.

### **CONCLUSION**

Garbage tipping fees (including the generator levy for loads delivered to Metro Vancouver and City of Vancouver disposal facilities) are proposed to increase by \$4 per tonne for all waste categories in 2021 to recover costs and balance the Solid Waste Services budget proposed for 2021.

The proposal to increase the generator levy by \$6 per tonne ensures that all generators in the region contribute to the fixed costs of the region's transfer station network and solid waste planning. Staff recommend Alternative 1, that the Board amend the Tipping Fee Bylaw.

### **Attachments** *(Orbit # 41647117)*

1. GVS&DD Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw 341, 2020 - Amends Bylaw 306, 2017
2. Blackline Version Proposed Changes to GVS&DD Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017

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**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT  
BYLAW NO. 341, 2020**

**A Bylaw to amend Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid  
Waste Disposal Regulation Bylaw No. 306, 2017**

**WHEREAS:**

- A. The Greater Vancouver Sewerage and Drainage District (“**GVS&DD**”) Board (the “**Board**”) adopted the “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017”, as amended, a Bylaw to establish a scale of fees, levies and charges for services rendered by the GVS&DD and for the use of any of the GVS&DD’s waste disposal facilities; and
- B. The Board wishes to amend the “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017”,

**NOW THEREFORE** the Greater Vancouver Sewerage and Drainage District Board enacts as follows:

- 1.0 The “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 306, 2017” (the “**Bylaw**”) is hereby amended as follows:
  - 1.1 Section 5.1 of the Bylaw is deleted and replaced with the following:
    - 5.1 Every person who generates Municipal Solid Waste within the geographic area of the GVS&DD must pay the Generator Levy in the amount of \$48/tonne with respect to all Municipal Solid Waste that that person generates as follows:
      - (a) to the GVS&DD at a Disposal Site in accordance with section 5.2;
      - (b) to the City of Vancouver at a Vancouver Disposal Site as part of the applicable tipping fee at those sites; or
      - (c) to a Waste Hauler that picks up their Municipal Solid Waste.
  - 1.2 Table 1 of Schedule B of the Bylaw is hereby deleted and replaced with Table 1 set out in the Schedule that is attached to and forms part of this Bylaw.
  - 2.0 The official citation for this bylaw is “Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Amendment Bylaw No. 341, 2020”.

3.0 This bylaw comes into force and takes effect January 1, 2021.

Read a first, second and third time this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Passed and finally adopted this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
Sav Dhaliwal, Chair

\_\_\_\_\_  
Chris Plagnol, Corporate Officer

## SCHEDULE

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

	Net Weight	North Shore Transfer Station <sup>1</sup>	Surrey Transfer Station <sup>1</sup>	Coquitlam Transfer Station <sup>1</sup>	Maple Ridge Transfer Station <sup>1</sup>	Langley Transfer Station <sup>1</sup>	Waste-to- Energy Facility <sup>1</sup>
Municipal Garbage	All Loads	\$117/tonne	\$117/tonne	\$117/tonne	\$117/tonne	\$117/tonne	\$117/tonne
All Garbage other than Municipal Garbage	0 to .99 tonnes 1.0 to 8.99 tonnes 9.0 tonnes or more	\$151/tonne <sup>2</sup> \$129/tonne <sup>4</sup> \$103/tonne	\$151/tonne <sup>2</sup> \$129/tonne <sup>4</sup> \$103/tonne	\$151/tonne <sup>2</sup> \$129/tonne <sup>4</sup> \$103/tonne	\$151/tonne <sup>3</sup> \$129/tonne <sup>5</sup> Not accepted.	\$151/tonne <sup>2</sup> \$129/tonne <sup>4</sup> Not accepted.	\$151/tonne <sup>2</sup> \$129/tonne <sup>4</sup> \$103/tonne
Minimum Tipping Fee for Garbage	Minimum Tipping Fee during Peak Hours	\$20/Load	\$20/Load	\$20/Load	\$10/Load	\$10/Load	\$10/Load
	Minimum Tipping Fee outside of Peak Hours	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load
Special Handle Waste	All Loads	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	\$250/tonne, \$50 minimum.

<sup>1</sup> All Loads originating from Maple Ridge will be assessed an additional fee of \$4/tonne.

<sup>2</sup> To a maximum of \$129 per Load.

<sup>3</sup> To a maximum of \$133 per Load.

<sup>4</sup> To a maximum of \$927 per Load.

<sup>5</sup> To a maximum of \$963 per Load.

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

*Added by Bylaw 323, 2018*

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

*4.8 through 4.12 Renumbered by Bylaw 323, 2018*

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

*Replaced by Bylaw 323, 2018*

**5.0 Levies, Rates and Charges**

- 5.1 Every person who generates Municipal Solid Waste within the geographic area of the GVS&DD must pay the Generator Levy in the amount of ~~\$42~~~~\$48~~/tonne with respect to all Municipal Solid Waste that that person generates as follows:
- (a) to the GVS&DD at a Disposal Site in accordance with section 5.2;
  - (b) to the City of Vancouver at a Vancouver Disposal Site as part of the applicable tipping fee at those sites; or
  - (c) to a Waste Hauler that picks up their Municipal Solid Waste.
- 5.2 Every person who disposes of Municipal Solid Waste at a Disposal Site must pay to the GVS&DD:
- (a) the applicable Tipping Fees set out in Table 1 of Schedule "B";

## SCHEDULE "B"

### TIPPING FEES, TRANSACTION FEE, RECYCLING FEES AND SURCHARGES

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

*Replaced by Bylaw 330, 2019; Replaced by Bylaw 323, 2018; Replaced by Bylaw 308, 2017.*

	Net Weight	NorthShore Transfer Station <sup>1</sup>	Surrey Transfer Station <sup>1</sup>	Coquitlam Transfer Station <sup>1</sup>	Maple Ridge Transfer Station <sup>1</sup>	Langley Transfer Station <sup>1</sup>	Waste-to- Energy Facility <sup>1</sup>
Municipal Garbage	All Loads	<del>\$113</del> <del>\$117</del> /tonne	<del>\$113</del> <del>\$117</del> /tonne	<del>\$113</del> <del>\$117</del> /tonne	<del>\$113</del> <del>\$117</del> /tonne	<del>\$113</del> <del>\$117</del> /tonne	<del>\$113</del> <del>\$117</del> /tonne
All Garbage other than Municipal Garbage	0 to .99 tonnes 1.0 to 8.99 tonnes 9.0 tonnes or more	<del>\$147</del> <del>\$151</del> /tonne <sup>2</sup> <del>\$125</del> <del>\$129</del> /tonne <sup>4</sup> <del>\$99</del> <del>\$103</del> /tonne	<del>\$147</del> <del>\$151</del> /tonne <sup>2</sup> <del>\$125</del> <del>\$129</del> /tonne <sup>4</sup> <del>\$99</del> <del>\$103</del> /tonne	<del>\$147</del> <del>\$151</del> /tonne <sup>2</sup> <del>\$125</del> <del>\$129</del> /tonne <sup>4</sup> <del>\$99</del> <del>\$103</del> /tonne	<del>\$147</del> <del>\$151</del> /tonne <sup>3</sup> <del>\$125</del> <del>\$129</del> /tonne <sup>5</sup> Not accepted.	<del>\$147</del> <del>\$151</del> /tonne <sup>2</sup> <del>\$125</del> <del>\$129</del> /tonne <sup>4</sup> Not accepted.	<del>\$147</del> <del>\$151</del> /tonne <sup>2</sup> <del>\$125</del> <del>\$129</del> /tonne <sup>4</sup> <del>\$99</del> <del>\$103</del> /tonne
Minimum Tipping Fee for Garbage	Minimum Tipping Fee during Peak Hours	\$20/Load	\$20/Load	\$20/Load	\$10/Load	\$10/Load	\$10/Load
	Minimum Tipping Fee outside of Peak Hours	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load	\$10/Load
Special Handle Waste	All Loads	Not accepted.	Not accepted.	Not accepted.	Not accepted.	Not accepted.	\$250/tonne, \$50 minimum.

<sup>1</sup> All Loads originating from Maple Ridge will be assessed an additional fee of \$4/tonne.

<sup>2</sup> To a maximum of ~~\$125~~~~\$129~~ per Load.

<sup>3</sup> To a maximum of ~~\$129~~~~\$133~~ per Load.

<sup>4</sup> To a maximum of ~~\$894~~~~\$927~~ per Load.

<sup>5</sup> To a maximum of ~~\$927~~~~\$963~~ per Load.

**Table 2 - Transaction Fee**

Each Load of Garbage disposed of at any Disposal Site, each Load of Special Handle Waste disposed of at the Waste-to-Energy Facility, and each Load of Gypsum dropped off at a designated Recycling Area	\$5/Load
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**COMMITTEE INFORMATION ITEMS AND DELEGATION SUMMARIES**

Greater Vancouver Sewerage and Drainage District  
Board Meeting Date – Friday, October 30, 2020

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This information item, listing recent information received by committee, is provided for the GVS&DD Board's information. Please access a complete PDF package [here](#).

**Performance and Audit Committee – October 15, 2020***Delegation Summaries:*

No delegations presented

*Information Items:*

5.4 Semi-Annual Report on GVS&DD Development Cost Charges

**Zero Waste Committee – October 16, 2020***Delegation Summaries:*

No delegations presented

*Information Items:*

5.4 Waste Composition Program Plan

5.5 Solid Waste Services Capital Program Expenditure Update as of August 31, 2020

41602972