

METRO VANCOUVER REGIONAL DISTRICT LIQUID WASTE COMMITTEE

MEETING

Wednesday, October 14, 2026

9:00 am

28th Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia

AGENDA

A. ADOPTION OF THE AGENDA

1. **October 14, 2026 Meeting Agenda**

THAT the Liquid Waste Committee adopt the agenda for its meeting scheduled for October 14, 2026 as circulated.

B. ADOPTION OF THE MINUTES

1. **July 15, 2026 Meeting Minutes**

THAT the Liquid Waste Committee adopt the minutes of its meeting held July 15, 2026 as circulated.

pg. 9

C. DELEGATIONS

D. INVITED PRESENTATIONS

E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER

1. **2027 - 2031 Financial Plan Overview**

Report dated September 29, 2026 from Heather McNell, Acting Commissioner / Chief Administrative Officer, and Linda Sabatini, Chief Financial Officer / General Manager, Financial Services.

pg. 15

2. **2027 Budget and 2027 – 2031 Financial Plan - Liquid Waste Services**

Report dated October 7, 2026 from Peter Navratil, General Manager, Liquid Waste Services.

pg. 29

Executive Summary

The proposed 2027 operating budget for Liquid Waste Services is \$809.6 million, which is a \$51.1 million increase over 2026 primarily due to continued investments in capital infrastructure and inflationary increases. The total 2027 Capital Expenditure targets are \$1,228.7 million, with key investments in the North Shore Wastewater Treatment Plant (NSWWTP) and Iona Island Wastewater Treatment Plant, both of which are driven by regulatory changes, and in the Northwest Langley Wastewater Treatment Program,

Annacis Island Wastewater Treatment Plant Stage 5 Expansion, and other projects to maintain assets in a state of good repair and to accommodate a growing population. The increase in the levy equates to a \$6 increase in the average household impact (HHI) from 2026, or \$540 per household for Liquid Waste Services in 2027. This increase is less than the previously forecasted HHI increase of \$18 per household, largely due to the \$235 million settlement related to the NSWWTP and higher anticipated Industrial Charges than previously forecasted.

Metro Vancouver's 2027 Budget and 2027 - 2031 Five-Year Financial Plan have been prepared following direction received at the April 15, 2026 Board Budget Workshop. At the Board Budget Workshop, the Boards directed staff to bring back amendment bylaws to roll back Metro Vancouver's 2026 development cost charge (DCC) rates to 2025 levels, lower the planned increase to 2027 DCC rates, and extend the move to growth fully paying for growth (a 1% assist factor) from 2027 to 2029. These DCC amendment bylaws were approved at the July 24, 2026 Board meetings. The revision to DCC rates is anticipated to reduce Metro Vancouver's revenues by \$389M over the five year plan. The Boards provided direction to fill this funding gap through a combination of additional borrowing and tax requisitions in the 2027-2031 Five-Year Financial Plan.

In addition, the Boards directed staff to develop the 2027-2031 Five-Year Financial Plan with household impact (HHI) targets of 3.0% for 2027, and 5.0% per year for 2028 to 2031. After review of all budgets and incorporating cost efficiencies from the 2026 to 2030 Financial planning process, the proposed 2027-2031 Five-Year Financial Plan has come under these targets, resulting in increases to the average household of 1.9% in 2027, 4.2% in 2028 and 5.0% in 2029, 2030 and 2031.

Recommendation

THAT the Liquid Waste Committee endorse the 2027 Budget and 2027 – 2031 Financial Plan for Liquid Waste Services as presented in the report dated October 7, 2026, titled "2027 Budget and 2027 – 2031 Financial Plan – Liquid Waste Services", and forward it to the Board Budget Workshop on October 21, 2026 for consideration.

3. 2026 Major Capital Projects Update No. 2 - Liquid Waste

pg. 83

Report dated September 14, 2026 from Bob Cheng, Acting General Manager, Project Delivery.

Executive Summary

Metro Vancouver follows best practices related to governance and oversight on all of Metro Vancouver's capital projects. A key deliverable is to provide regular updates on the portfolio of high value, risk, and consequence capital projects being delivered by the Project Delivery Department.

All of these major projects are on track for schedule and budget for their current project stage with the exception of the Northwest Langley Wastewater Treatment Plant Expansion Program which experienced significant delays due to archaeological permitting challenges that arose in 2023. These are now resolved and pre-construction recommenced in May 2026. These delays are being monitored and will likely impact the budget for the upcoming construction stage. Any changes will be reviewed by the Committee and GVS&DD Board as part of Stage Gate 3 approval in 2028.

Recommendation

THAT the GVS&DD Board receive for information the report dated September 14, 2026, titled “2026 Major Capital Projects Update No. 2 – Liquid Waste.”

4. Value Engineering for Liquid Waste Infrastructure Growth Projects

pg. 88

Report dated September 16, 2026 from Colin Meldrum, Director Engineering, Design and Construction, Liquid Waste Services.

Executive Summary

Value engineering reviews evaluate the whole-life value of infrastructure projects by considering capital and operating costs, constructability, schedule, environmental and social impacts, system reliability and resilience, and project risks. Value engineering is applied throughout the planning and design stages of all Metro Vancouver capital projects. In-house engineering and technical expertise, supplemented by external specialists where appropriate, enable staff to critically review and critique consultant-developed concepts and designs. Formal, independently facilitated studies are required for projects classified as high value, risk, and consequence.

This report identifies current liquid waste infrastructure growth projects valued over \$10 million in planning, design, and construction and summarizes the value exercises completed or planned to support cost-effective project delivery.

A commensurate report is being presented to the GVWD. The approach to value engineering is consistent between the two utilities.

Recommendation

THAT the GVS&DD Board receive for information the report titled “Value Engineering for Liquid Waste Infrastructure Growth Projects” dated September 16, 2026.

5. Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026

pg. 94

Report dated September 30, 2026 from Dana Zheng, Program Manager, Policy Planning and Analysis, Liquid Waste Services.

Executive Summary

Notices of bylaw violation (NBVs) are financial penalties issued for minor bylaw contraventions to promote compliance. After the provincial government granted GVS&DD the ability to issue NBVs in 2023, the Board adopted *the Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw No. 378, 2024*. This Bylaw defines contraventions and commensurate financial penalties for GVS&DD’s six existing liquid waste bylaws.

Increased penalty amounts are proposed for select notices of bylaw violation to address feedback received from the Liquid Waste Committee in January 2026 and to align with penalty amounts for air quality NBVs updated in June 2026. The proposed amendments rank the severity of contraventions as minor, moderate, and serious, and increase the penalty amounts to \$300, \$400, and \$500, respectively. The amendments enhance the effectiveness of NBVs as a compliance and enforcement tool, while remaining within the \$500 maximum set by provincial legislation.

Recommendation

THAT the GVS&DD Board:

- a) give first, second and third readings to *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026*; and
- b) adopt *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026*.

6. Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026 – Fraser Sewerage Area – Maple Ridge (14500 Silver Valley Road) pg. 112

Report dated September 26, 2026 from Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services.

Executive Summary

In 2024, the City of Maple Ridge requested an amendment of the Fraser Sewerage Area (FSA) boundary to include building footprints at 14500 Silver Valley Road. The GVS&DD Board approved the request by adopting *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 374, 2024* (Reference 1).

Following further site engineering and utility service reviews, the City applied to revise the previously approved building footprints and servicing approach.

On September 25, 2026, the MVRD Board resolved that the revised sewer service extension is consistent with *Metro 2050* (Reference 2) and forwarded the application to the GVS&DD Board. A technical review confirmed that the revised development can be accommodated within the regional sewerage system with negligible dry weather impacts and manageable wet weather impacts, requiring no additional regional infrastructure.

As the application is consistent with *Metro 2050* sewer service provisions and raises no significant regional technical or financial concerns, staff recommend amending the FSA boundary.

Recommendation

THAT the GVS&DD Board:

- a) give first, second and third readings to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026*; and
- b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026*.

7. Award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements pg. 119

Report dated September 12, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Marek Ratajczak, Director, Major Projects, Project Delivery.

Executive Summary

Pomerleau Inc.'s proposal ranked highest overall and demonstrated best value overall for Metro Vancouver. Although not the lowest cost proponent, Pomerleau Inc.'s proposal clearly demonstrated the availability of qualified personnel and sub-contractors, as well as a strong understanding of the methodology required to successfully deliver the scope of services. These strengths will enable Metro Vancouver to complete the work within the required schedule while achieving value for money.

Metro Vancouver requires a contractor to complete the Pre-Construction Ground Improvements for the Northwest Langley Wastewater Treatment Plant Expansion Program, estimated to be completed in 2036.

RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements was issued on June 12, 2026 to four proponents prequalified under RFQ No. 25-642. The procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP No. 26-0304 evaluation team has considered the proposals received, and on that basis recommend that the GVS&DD Board award Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements to Pomerleau Inc.

Recommendation

THAT the GVS&DD Board:

- a) approve the award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements, in the amount of up to \$25,268,862 (exclusive of taxes) to Pomerleau Inc., subject to final review by the Acting Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

8. Award of RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project *pg. 122*

Report dated September 12, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Marek Ratajczak, Director, Major Projects, Project Delivery.

Executive Summary

CDM Smith Canada ULC's proposal ranked highest overall, had the lowest cost, had the highest technical score and demonstrated best overall value for Metro Vancouver.

Metro Vancouver requires Construction Management Consulting Services to effectively administer the Liquids Contract and Solids Contract, the two contracts that comprise the Northwest Langley Wastewater Treatment Plant Expansion Project, which is the largest component of the Northwest Langley Wastewater Treatment Plant Expansion Program, estimated to be completed in 2036.

RFP No. 26-0451 was advertised publicly on June 26, 2026, and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP No. 26-0451 evaluation team has considered the proposals received, and on that basis recommend that the GVS&DD Board award the Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project to CDM Smith Canada ULC.

Recommendation

THAT the GVS&DD Board:

- a) approve the award of RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Expansion Project in the amount of up to \$72,806,111 (exclusive of taxes) to CDM Smith Canada ULC, subject to final review by the Acting Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

9. Award of RFP No. 25-290 for Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects

pg. 125

Report dated October 2, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Nelson Szeto, Director, IIWWTP Projects, Project Delivery.

Executive Summary

Ross Morrison Electric Ltd.'s proposal ranked highest overall, provided the lowest cost, and demonstrated best value overall for Metro Vancouver.

Metro Vancouver requires construction and installation services for a Standby Power System facility at the existing Iona Island Wastewater Treatment Plant. This facility will provide existing plant reliability and resiliency for BC Hydro system outages, electrical redundancy for existing plant rehabilitation works, and enable switchover to a resilient BC Hydro power service for the upgraded treatment plant. This work is part of Phase 1 of the Iona Island Wastewater Treatment Plant Projects, which are funded through one-third grants each from the Province of BC and Canada.

RFP 25-290 was issued on May 1, 2026. RFP 25-290 was advertised publicly, and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. RFP 25-290 evaluation team have considered the proposals received, and on that basis recommend that the GVS&DD Board award Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects to Ross Morrison Electric Ltd.

Recommendation

THAT the GVS&DD Board:

- a) approve the award of RFP 25-290 for the Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects, in the amount of up to \$18,804,548 (exclusive of taxes) to Ross Morrison Electric Ltd. for a one-time purchase, subject to final review by the Acting Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

- 10. Award of RFP 25-336 - AIWWTP Stage 5 Expansion – Ground Improvements**
Report dated September 22, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Raymond Eng, Acting Director, Major Projects, Project Delivery.

pg. 128

Executive Summary

Kenaidan Contracting Ltd.'s proposal ranked highest overall, provided the lowest cost, had the highest technical score and demonstrated best value overall for Metro Vancouver.

The Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion Project is required to increase the service population from 1.25 million to 1.5 million residents. The scope of this RFP award is for completion of ground improvements so that the next phase of the program can proceed, which will consist of constructing a new trickling filter pump station and two trickling filters on top of the newly ground-improved site.

RFP 25-336 was issued on February 26, 2026 to three (3) prequalified respondents of RFQ 24-418 Ground Improvements & Site Preparation, and the procurement was executed in accordance with the terms and condition of Metro Vancouver's Procurement Policy. The RFP 25-336 evaluation team have considered the proposals received, and on the basis recommend that the GVS&DD award RFP 25-336 - AIWWTP Stage 5 Expansion – Ground Improvements to Kenaidan Contracting Ltd.

Recommendation

THAT the GVS&DD Board:

- a) approve the award of RFP 25-336 Construction of Ground Improvements & Site Preparation for Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion Project, in the amount of up to \$35,573,315 (exclusive of taxes) to Kenaidan Contracting Ltd., subject to final review by the Acting Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

- 11. Manager's Report** *pg. 131*
Report dated August 25, 2026 from Peter Navratil, General Manager, Liquid Waste Services.

Recommendation

THAT the Liquid Waste Committee receive for information the report dated August 25, 2026, titled "Manager's Report".

F. INFORMATION ITEMS

- 1. Incoming Correspondence from Ministry of Environment and Parks dated October 2, 2026 regarding municipal council endorsements for the Liquid Waste Management Plan** *pg. 134*

G. OTHER BUSINESS

H. RESOLUTION TO CLOSE MEETING

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

I. ADJOURNMENT

THAT the Liquid Waste Committee adjourn its meeting of October 14, 2026.

Membership:

Chair, Malcolm Brodie, Richmond
Vice Chair, Megan Knight, White Rock
Burnaby, James Wang
Coquitlam, Steve Kim
Delta, Rod Binder

Langley City, Paul Albrecht
Langley Township, Steve Ferguson
New Westminster, Nadine Nakagawa
North Vancouver District, Mike Little
Pitt Meadows, Bob Meachen

Port Coquitlam, Brad West
Surrey, Doug Elford
Vancouver, Sarah Kirby-Yung
West Vancouver, Christine Cassidy



METRO VANCOUVER REGIONAL DISTRICT LIQUID WASTE COMMITTEE

MEETING

Wednesday, July 15, 2026

9:00 am

The meeting was held electronically on the Zoom platform

MINUTES

MEMBERS PRESENT:

Chair, Malcolm Brodie, Richmond*
Vice Chair, Megan Knight, White Rock*
Burnaby, James Wang*
Coquitlam, Steve Kim*
Delta, Rod Binder*
Langley City, Paul Albrecht*
Langley Township, Steve Ferguson*
New Westminster, Nadine Nakagawa*
North Vancouver District, Mike Little*
Pitt Meadows, Bob Meachen*
Port Coquitlam, Brad West*
Surrey, Doug Elford*
Vancouver, Sarah Kirby-Yung*
West Vancouver, Christine Cassidy*

* denotes electronic meeting participation as authorized by the *Procedure Bylaw*

STAFF PRESENT:

Jerry W. Dobrovolny, Chief Administrative Officer
Peter Navratil, General Manager, Liquid Waste Services
Christine Zhao, Acting Supervisor, Legislative Services, Board and Information Services
Joan Liu, Division Manager, EDC Collection Systems, Liquid Waste Services
Marek Ratajczak, Director, Project Delivery

A. ADOPTION OF THE AGENDA

1. July 15, 2026 Meeting Agenda

It was MOVED and SECONDED

THAT the Liquid Waste Committee adopt the agenda for its meeting scheduled for July 15, 2026 as circulated.

CARRIED

B. ADOPTION OF THE MINUTES**1. June 17, 2026 Meeting Minutes****It was MOVED and SECONDED**

THAT the Liquid Waste Committee adopt the minutes of its meeting held June 17, 2026 as circulated.

CARRIED

C. DELEGATIONS

No items presented.

D. INVITED PRESENTATIONS

No items presented.

E. REPORTS FROM COMMITTEE OR CHIEF ADMINISTRATIVE OFFICER**1. Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services**

Report dated July 8, 2026 from Peter Navratil, General Manager, Liquid Waste Services, presenting to the Liquid Waste Committee the Draft Liquid Waste 2027 – 2031 Capital Plan for input and feedback, which will then be incorporated into the Fall Budget approval process.

Peter Navratil gave a presentation titled “Draft Five Year Capital Plan (2027 – 2031) – Liquid Waste Services,” providing an overview of the financial plan process, service objectives, capital plan drivers, key capital projects, and capital plan expenditures for the next five years.

It was MOVED and SECONDED

THAT the Liquid Waste Committee receive for information the report dated July 8, 2026, titled “Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services”.

CARRIED

2. 2026 Liquid Waste Services Capital Program Update No. 2

Report dated June 26, 2026 from Colin Meldrum, Director, Engineering, Design, and Construction, Liquid Waste Services, and Jennifer Crosby, Director, Project Delivery, providing the Liquid Waste Committee and the GVS&DD Board with the second of three annual updates on the Liquid Waste Services’ Capital Program.

Joan Liu, Division Manager, EDC Collection Systems, Liquid Waste Services, and Marek Ratajczak, Director, Project Delivery, gave a presentation titled “2026 Liquid Waste Services Capital Program Update No. 2,” providing an update on the progress, schedule, and budget of capital programs, including Gleneagles Sewer and pump stations, North Surrey Interceptor Improvements, Twinning, and SSO Storage, and Northwest Langley WWTP Expansion Program.

It was MOVED and SECONDED

THAT the GVS&DD Board receive for information the report dated June 26, 2026 titled "2026 Liquid Waste Services Capital Program Update No. 2".

CARRIED**3. Sewage Diversion and Funding Agreement for Richmond Sewer Heat Recovery Project**

Report dated June 15, 2026 from Winson Cheng, Senior Project Engineer, Business Development, Liquid Waste Services, seeking GVS&DD Board authorization to invest \$10 million in new sewer heat recovery infrastructure for LIEC's future district energy facility in the City of Richmond, and to authorize the Commissioner to execute a sewage diversion and funding agreement with LIEC.

It was MOVED and SECONDED

THAT the GVS&DD Board authorize:

- a) the investment of \$10 million (exclusive of taxes) from approved capital budget funds for GVS&DD infrastructure for a sewer heat recovery project; and
- b) the GVS&DD Commissioner to execute the finalized agreement.

CARRIED**4. Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026**

Report dated June 15, 2026 from Dana Zheng, Program Manager, Policy, Planning and Analysis, Liquid Waste Services, seeking GVS&DD Board consideration of trucked liquid waste fees for 2027 and adoption of the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*; and
- b) adopt the *Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Amendment Bylaw No. 403, 2026*.

CARRIED**5. Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026 – Fraser Sewerage Area – Surrey (Hazelmere)**

Report dated June 11, 2026 from Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services, seeking GVS&DD Board approval to amend the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018*, by adding the subject properties in Surrey, as identified in Schedule A of the bylaw, to the FSA.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*; and
- b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 402, 2026*.

CARRIED

(Directors Albrecht and Nakagawa and Councillor Cassidy voted against)

6. Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026 – Fraser Sewerage Area – Maple Ridge (North 256 Street Industrial Lands)

Report dated June 11, 2026 from Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services, seeking GVS&DD Board approval to amend the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018*, by adding the subject properties in Maple Ridge, as shown on Schedule A of the bylaw, to the FSA.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) give first, second and third reading to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*; and
- b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 401, 2026*.

CARRIED

(Director Albrecht and Councillor Cassidy voted against)

7. Award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank

Report dated May 29, 2026 from Joan Liu, Division Manager, EDC Collection Systems, Liquid Waste Services, and George Kavouras, Director, Procurement, Procurement & Real Estate Services, seeking GVS&DD Board approval to award contract RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank, in the amount of up to \$28,335,710.00 (exclusive of taxes), to Jacob Bros. Construction Inc.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) approve the award of RFP 25-038 for Construction Services for the North Surrey Interceptor Relocation for the North Surrey Interceptor Maintenance Hole 35 Sanitary Sewer Overflow Storage Tank, in the amount of up to \$28,335,710.00 (exclusive of taxes), to Jacob Bros. Construction Inc., subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

CARRIED

8. Award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works

Report dated May 26, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Bob Cheng, Director, Major Projects, Project Delivery, seeking GVS&DD Board approval to award contract RFP 25-596 of Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works, in the amount of up to \$16,594,975.60 (exclusive of taxes), to Stantec Consulting Ltd. for a term of five years.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) approve the award of RFP 25-596 for Construction Management Services for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Completion Works, in the amount of up to \$16,594,975.60 (exclusive of taxes), to Stantec Consulting Ltd. for a term of five years, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

CARRIED

9. Award of Construction and Post-Construction Engineering Services for RFP 20-358 Engineering Services for Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters

Report dated June 26, 2026 from George Kavouras, Director, Procurement, Procurement & Real Estate Services, and Bob Cheng, Director, Major Projects, Project Delivery, seeking GVS&DD Board approval to award contract RFP 20-358 of Construction and Post-Construction Engineering Services for Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters, in the amount of up to \$29,952,375 (exclusive of taxes), to Brown and Caldwell Consultants Canada Ltd. for a term of five (5) years.

It was MOVED and SECONDED

THAT the GVS&DD Board:

- a) approve the award of Construction and Post-Construction Engineering Services for RFP 20-358 Annacis Island Wastewater Treatment Plant Stage 5 Expansion Trickling Filter Pump Station and Trickling Filters, in the amount of up to \$29,952,375 (exclusive of taxes), to Brown and Caldwell Consultants Canada Ltd. for a term of five (5) years, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

CARRIED

10. Manager's Report

Report dated July 7, 2026 from Peter Navratil, General Manager, Liquid Waste Services, providing an update on Liquid Waste notices of bylaw violation, 2026 financial performance, and staff efforts and actions taken following a service disruption at the Iona Wastewater Treatment Plant on July 2, 2026.

It was MOVED and SECONDED

THAT the Liquid Waste Committee receive for information the report dated July 7, 2026, titled "Manager's Report".

CARRIED**F. INFORMATION ITEMS**

No items presented.

G. OTHER BUSINESS

No items presented.

H. RESOLUTION TO CLOSE MEETING

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

It was MOVED and SECONDED

THAT the Liquid Waste Committee close its meeting scheduled for July 15, 2026 pursuant to Section 226 (1) (a) of the *Local Government Act* and the *Community Charter* provisions as follows:

- 90 (1) A part of a council meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
- (g) litigation or potential litigation affecting the municipality; and
 - (k) negotiations and related discussions respecting the proposed provision of a municipal service that are at their preliminary stages and that, in the view of the board or committee, could reasonably be expected to harm the interests of the regional district if they were held in public.

CARRIED**I. ADJOURNMENT****It was MOVED and SECONDED**

THAT the Liquid Waste Committee adjourn its meeting of July 15, 2026.

CARRIED

(Time: 9:49 am)

Christine Zhao,
Acting Supervisor, Legislative Services

Malcolm Brodie,
Chair



To: Liquid Waste Committee

From: Heather McNell, Acting Commissioner / Chief Administrative Officer
Linda Sabatini, Chief Financial Officer / General Manager, Financial Services

Date: September 29, 2026

Meeting Date: October 14, 2026

Subject: **2027 - 2031 Financial Plan Overview**

This presentation introduces a high-level overview of the Metro Vancouver 2027 – 2031 budget.

ATTACHMENT

1. 2027 – 2031 Financial Plan Overview Presentation dated October 14, 2026.

87728018



Inside the Second Narrows Water Supply Tunnel during construction

2027–2031 Financial Plan Overview

Linda Sabatini, CPA

Chief Financial Officer / General Manager, Financial Services

metrovancouver

1

AGENDA

1. Budget Approach

- Board Direction
- 2027 Budget Cycle Timeline
- Recent Developments and Macroeconomic Outlook
- 2027 Budget for Approval

2. Proposed Financial Plan

- 2027–2031 Five-Year Financial Plan for Endorsement

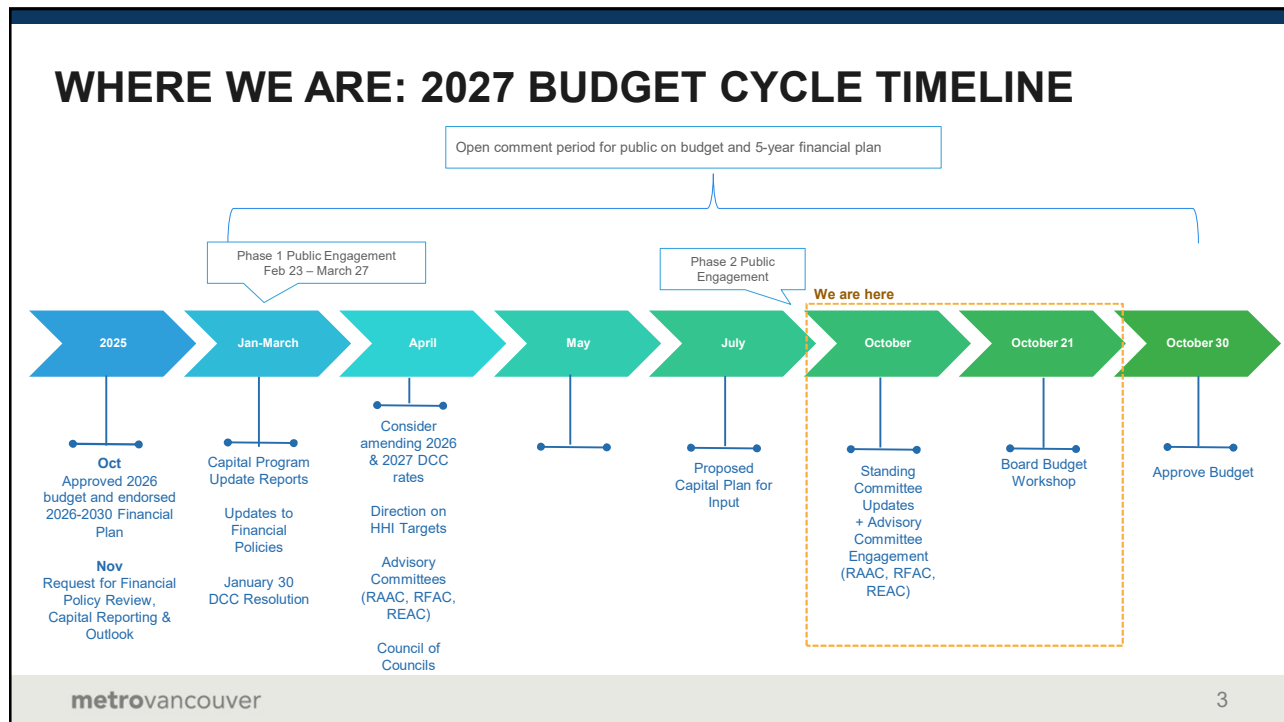
3. Department Budgets

- Committee Budget Summary and Major Drivers

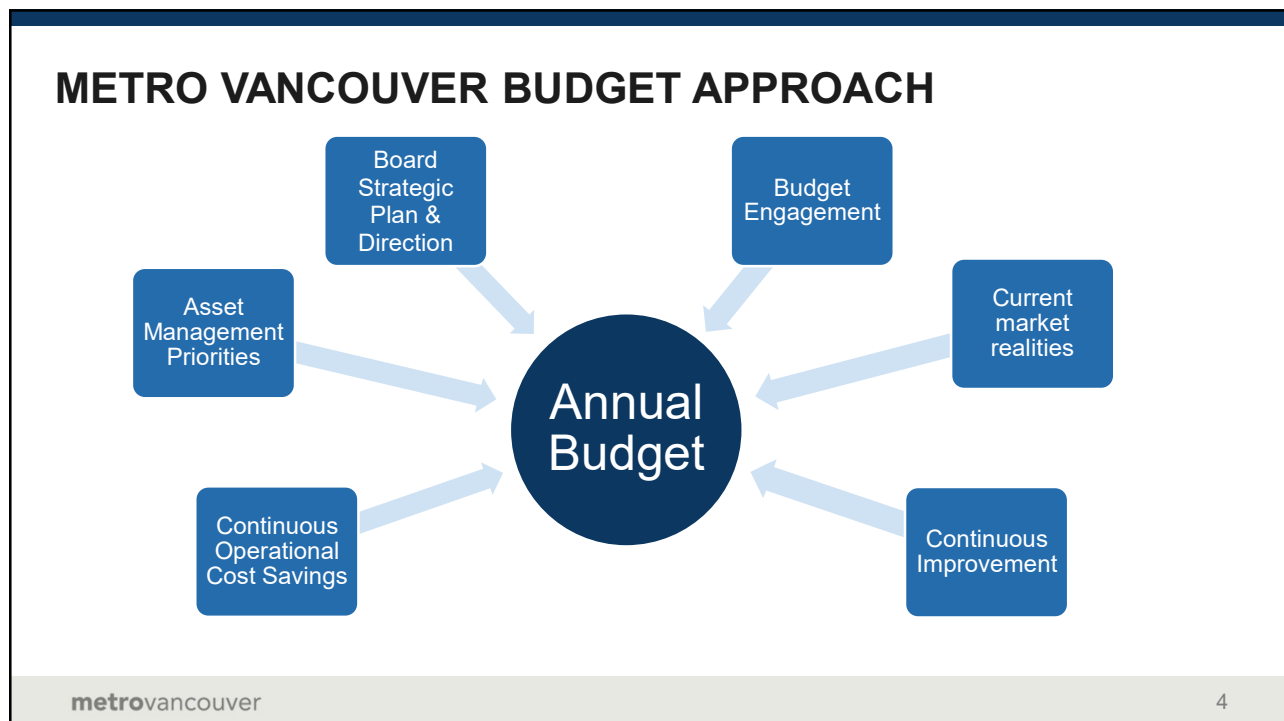
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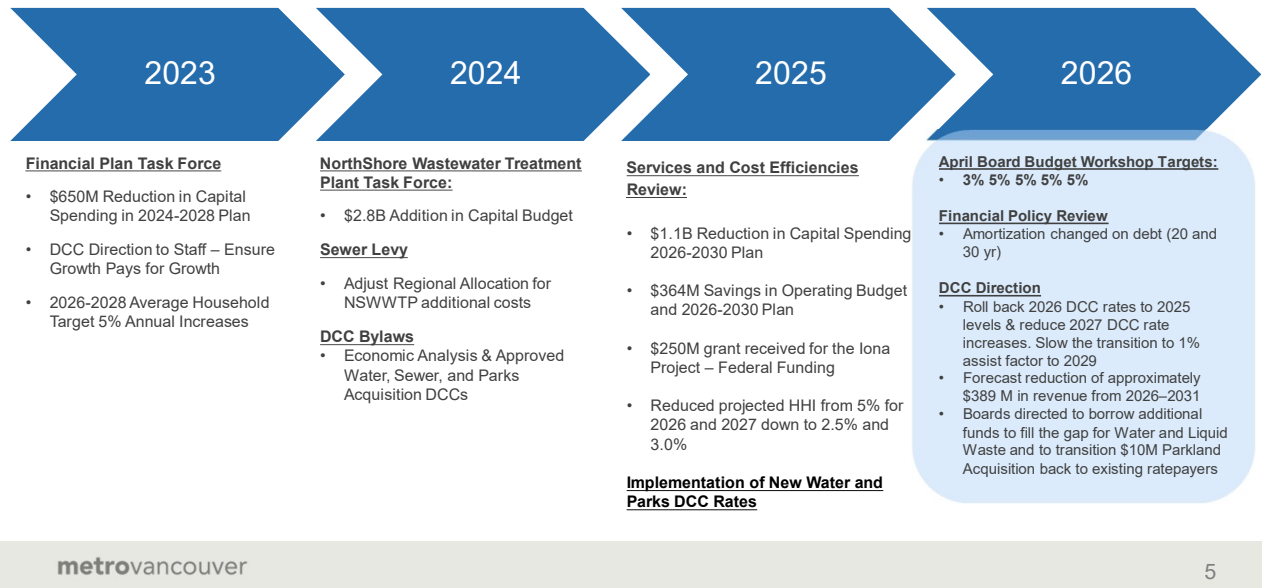


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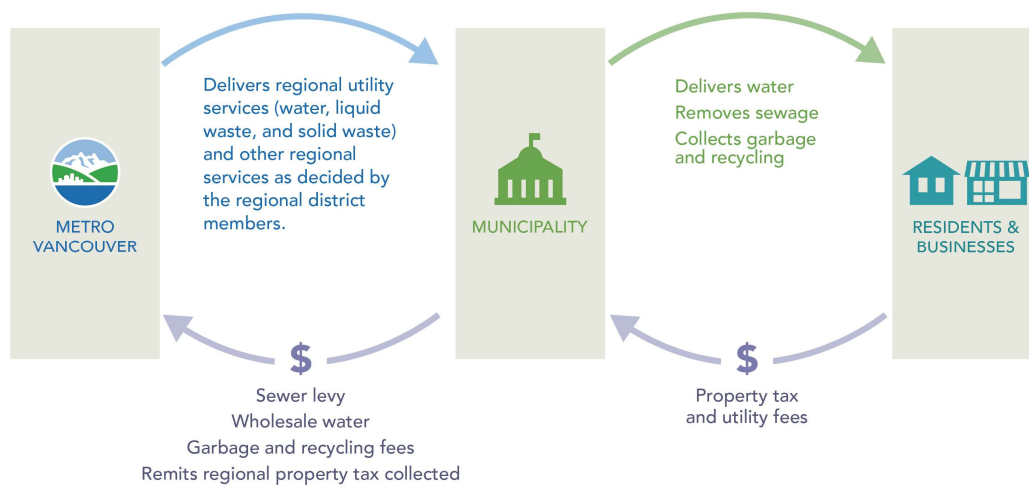
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BOARD DIRECTION OVER LAST FOUR YEARS



5

BUDGET APPROVAL IN OCTOBER

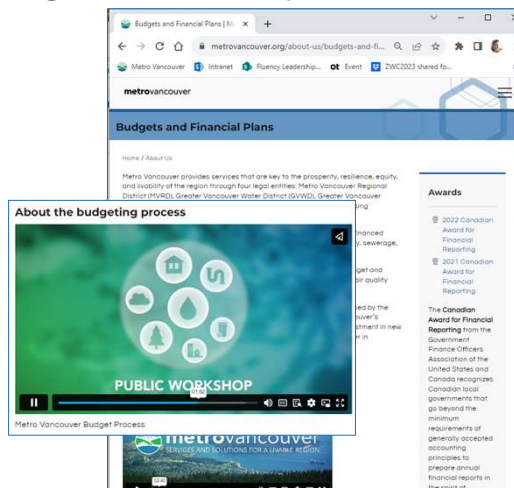


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OVERALL COMMUNICATIONS

Regular and ongoing communication related to budget and financial plan

- Budget webpage
- Budget process video
- MetroUpdate newsletter articles
- Live stream Committee and Board meetings
- Regional Staff Advisory Committees
- Council of Council meetings
- Budget communications throughout the year



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PUBLIC ENGAGEMENT

February 23 to September 11, 2026

Two Phases

- Phase 1: February 23 – March 27, 2026
- Phase 2: August 19 – September 11, 2026

Promotions

- Media, digital and print advertising, social, email newsletters, community events

Responses

- Phase 1: 260 survey responses, 167 survey comments
- Phase 2: 168 survey responses, 71 survey comments, 2 public events, 1,554 residents engaged in person



Budget Engagement Booth

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PUBLIC ENGAGEMENT: WHAT WE HEARD

High level themes in comments provided by the public

- Affordability & financial stewardship
- Spending & organizational efficiency
- Transparency & accountability
- Governance & Board structure
- Management of major capital infrastructure projects
- Perspectives on Metro Vancouver's role
- Support for maintaining essential infrastructure, air quality, climate action, and regional parks



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CULTURE OF CONTINUOUS IMPROVEMENT

Metro Vancouver's commitment to ongoing improvement

- 140 continuous improvement projects to improve efficiencies and realize savings
- Utilize data for decision making and benchmarking



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MACRO-ECONOMIC FINANCIAL RISKS

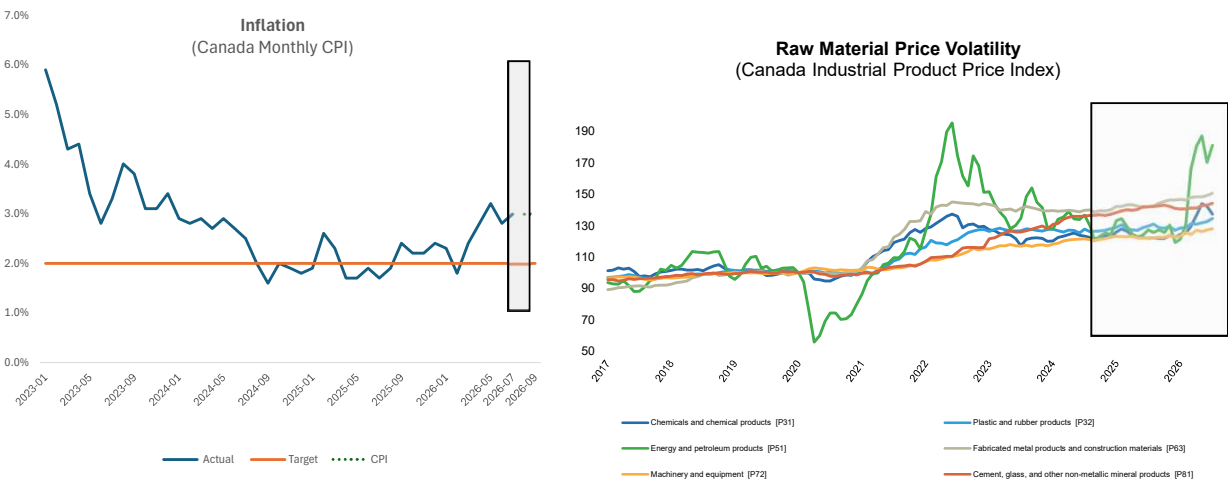
Key Pressures

Financial Risk	Mitigation Approach
Geo-political Volatility - Ongoing Canada-US trade tensions and tariff uncertainty will increase costs for steel, equipment, chemicals, vehicles, and other imported inputs - Global conflicts and energy-market disruptions continue to create volatility in fuel and transportation costs	- Monitor tariff-sensitive costs - Diversify suppliers and seek tariff remissions
Inflation and market capacity - National CPI pushed to 3% expected to remain at this level in the short-term - Construction capacity constraints and cost escalation may outpace budgets - Labour agreements currently being negotiated	- Time/phase projects to avoid cost peaks - Update escalation and revenue forecasts regularly
Interest rates Bank of Canada currently holding rates steady at 2.25%. Economic growth has softened, The Bank has indicated that elevated energy prices and inflation risks could delay future rate reductions.	- Using short-term borrowing when applicable - Locking in long term rates when appropriate - Exploring alternative investments through MFA

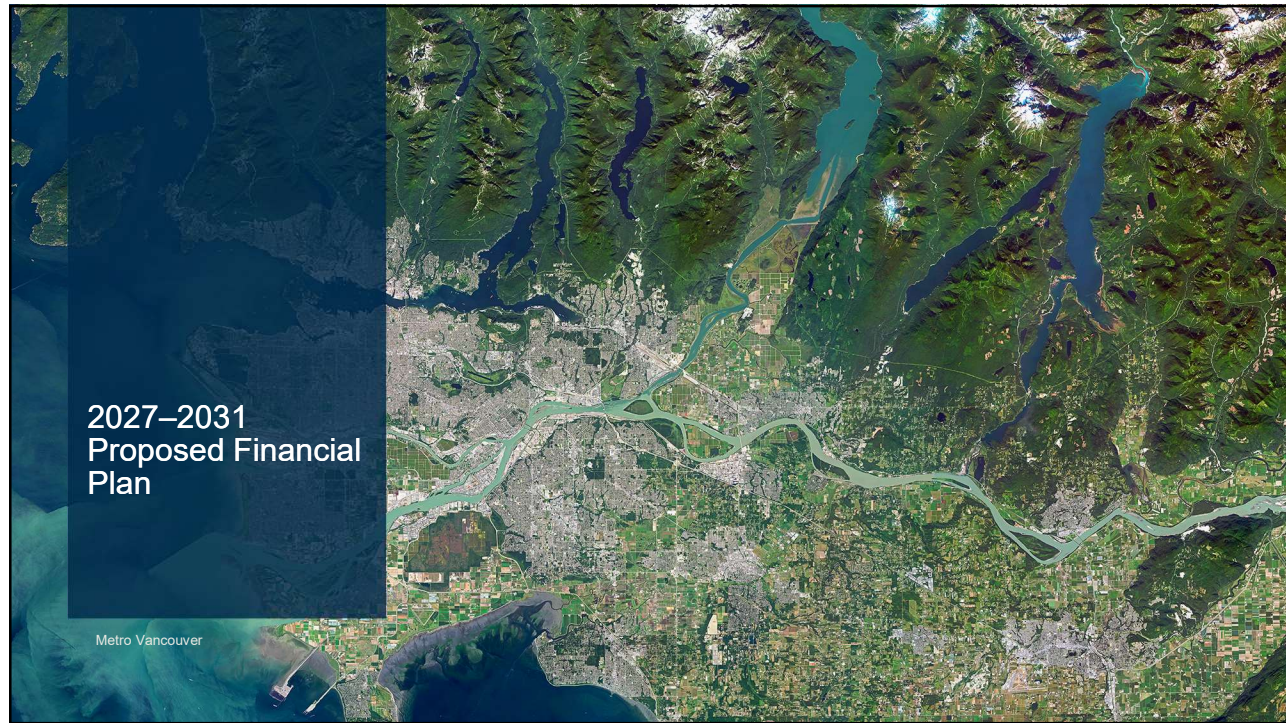
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MACRO-ECONOMIC OUTLOOK

Market Indicators



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ENHANCED CAPITAL BUDGET PAGES

New elements added to enhance understanding of the broader capital budgeting context

Enhancements:

- Estimated Timeline
- Project Estimate
- Project Estimate to Active Phase

GREATER VANCOUVER WATER DISTRICT CAPITAL PORTFOLIO WATER SERVICES											
	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START VS. END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
Reclamation Station Upgrades	Maintenance	Construction	2020 - 2050	\$14,950,000	\$4,950,000	\$1,200,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$11,000,000
Total Reclamation Stations				\$14,950,000	\$4,950,000	\$1,200,000	\$1,900,000	\$1,900,000	\$1,900,000	\$1,900,000	\$47,700,000
Water Supply Areas											
Capilano Watershed Bridge Replacements - Lower Creek and Capilano River	Maintenance	Design	2027 - 2029	\$1,300,000	\$1,300,000	\$95,000	\$200,000	\$1,000,000	\$-	\$-	\$1,295,000
Capilano Watershed Security Gatehouse	Maintenance	Construction	2018 - 2026	\$1,700,000	\$1,700,000	\$80,000	\$80,000	\$-	\$-	\$-	\$160,000
Twin Bridge End Abutment Protection - Lower Seymour Conservation Reserve	Maintenance	Not Started	2031 - 2032	\$2,000,000	\$-	\$-	\$-	\$-	\$400,000	\$400,000	\$400,000
Water Supply Area Aggregate Production	Resilience	Construction	2027 - 2033	\$1,000,000	\$1,000,000	\$50,000	\$40,000	\$-	\$-	\$30,000	\$130,000
Water Supply Area Gate Replacements	Maintenance	Not Started	2028 - 2029	\$1,000,000	\$-	\$-	\$750,000	\$250,000	\$-	\$-	\$1,000,000
Total Water Supply Areas				\$12,000,000	\$6,000,000	\$140,000	\$2,000,000	\$1,250,000	\$-	\$500,000	\$4,400,000
Works Yard											
Beach Yard Facility - Site Redevelopment	Maintenance	Design	2026 - 2032	\$8,500,000	\$3,000,000	\$500,000	\$1,500,000	\$2,700,000	\$5,000,000	\$14,500,000	\$14,200,000
Lake City Head Upgrade	Resilience	Design	2025 - 2027	\$2,200,000	\$2,200,000	\$80,000	\$1,200,000	\$2,200,000	\$1,500,000	\$900,000	\$5,900,000
Microbiology Laboratory Expansion	Maintenance	Design	2024 - 2030	\$14,750,000	\$1,900,000	\$500,000	\$800,000	\$1,150,000	\$3,000,000	\$5,000,000	\$10,500,000
South Fraser Storage Yard	Maintenance	Construction	2024 - 2032	\$9,500,000	\$9,500,000	\$1,750,000	\$4,950,000	\$1,850,000	\$7,550,000	\$2,800,000	\$18,100,000
South Fraser Works Yard	Maintenance	Design	2031 - 2030	\$9,000,000	\$9,000,000	\$1,400,000	\$4,800,000	\$17,550,000	\$16,000,000	\$12,000,000	\$51,750,000
Total Water Works Yard				\$37,950,000	\$23,600,000	\$4,350,000	\$12,950,000	\$25,000,000	\$33,050,000	\$44,350,000	\$126,650,000
Communication Systems											
Critical Control Sites - Back-Up Power	Resilience	Not Started	2027 - 2033	\$7,500,000	\$-	\$-	\$300,000	\$500,000	\$800,000	\$1,400,000	\$3,000,000
Facilities O&M Documentation Development	Resilience	Design	2033 - 2037	\$2,000,000	\$2,000,000	\$800,000	\$500,000	\$800,000	\$-	\$-	\$3,100,000
Industrial Communication Manager Migration	Maintenance	Construction	2026 - 2030	\$7,750,000	\$7,750,000	\$1,800,000	\$2,350,000	\$1,500,000	\$500,000	\$750,000	\$6,900,000
Online Chlorine and pH Analyzers	Upgrade	Construction	2025 - 2030	\$7,000,000	\$3,000,000	\$1,800,000	\$1,500,000	\$2,250,000	\$1,500,000	\$-	\$6,250,000
SCADA & CWP Control System I/O Modernization	Maintenance	Not Started	2019 - 2033	\$8,850,000	\$-	\$-	\$250,000	\$3,200,000	\$3,200,000	\$1,800,000	\$7,650,000
Small Logic Controller Control System Upgrade Phase 1	Maintenance	Construction	2024 - 2029	\$3,000,000	\$3,000,000	\$600,000	\$600,000	\$600,000	\$750,000	\$-	\$2,550,000
Water Optimization Instrumentation	Upgrade	Multiple	2015 - 2035	\$4,450,000	\$2,550,000	\$2,350,000	\$4,800,000	\$3,200,000	\$4,800,000	\$3,700,000	\$18,650,000

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UNDERSTANDING HOUSEHOLD IMPACT



Household impact provides a sense of the average cost to residents for Metro Vancouver services.

- **Regional District and Liquid Waste Services** – based on estimated residential portion of taxes divided by number of households
- **Water District** – based on the average water demand per household
- **Solid Waste** – based on the average tonnage per household

Metro Vancouver does not direct bill residents, so cost per household vary based on how rates are distributed by member jurisdiction.

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2027 BUDGET AND 2027-2031 FINANCIAL PLAN – BOARD DIRECTION

April Board Budget Workshop HHI Targets:

3% in 2027; 5 in each year 2028 to 2031

April DCC Direction (Approved by Province):

1. Roll back 2026 DCC rates to 2025 levels
2. Reduce the planned 2027 DCC rate increases
3. Extend the transition to the 1% assist factor (growth fully paying for growth) from 2027 to 2029, slowing the phase-in

Total forecast DCC revenue reduction of approximately \$389 million over 2026–2031. Boards directed to borrow additional funds to fill the gap for Water and Liquid Waste and to move \$10M parkland acquisition back to tax requisition

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AVERAGE ESTIMATED HOUSEHOLD IMPACT TARGETS 2027–2031

	2026 Budget	2027	2028	2029	2030	2031
Water District	\$208	\$206	\$208	\$213	\$218	\$226
Liquid Waste	\$534	\$540	\$571	\$608	\$650	\$690
Solid Waste	\$74	\$78	\$82	\$86	\$89	\$93
Regional District	\$81	\$90	\$92	\$92	\$91	\$92
Housing	-	-	-	-	-	-
2027–2031 Proposed HHI	\$897	\$914	\$953	\$999	\$1,048	\$1,101
\$ Change		\$17	\$39	\$46	\$49	\$53
% Change		1.9%	4.2%	5.0%	5.0%	5.0%
Previous HHI Projection for 2026-2030 Financial Plan		\$923	\$969	\$1,018	\$1,070	
% Change		3.0%	5.0%	5.0%	5.0%	

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AVERAGE ESTIMATED HOUSEHOLD IMPACT BY SEWERAGE AREA 2027–2031

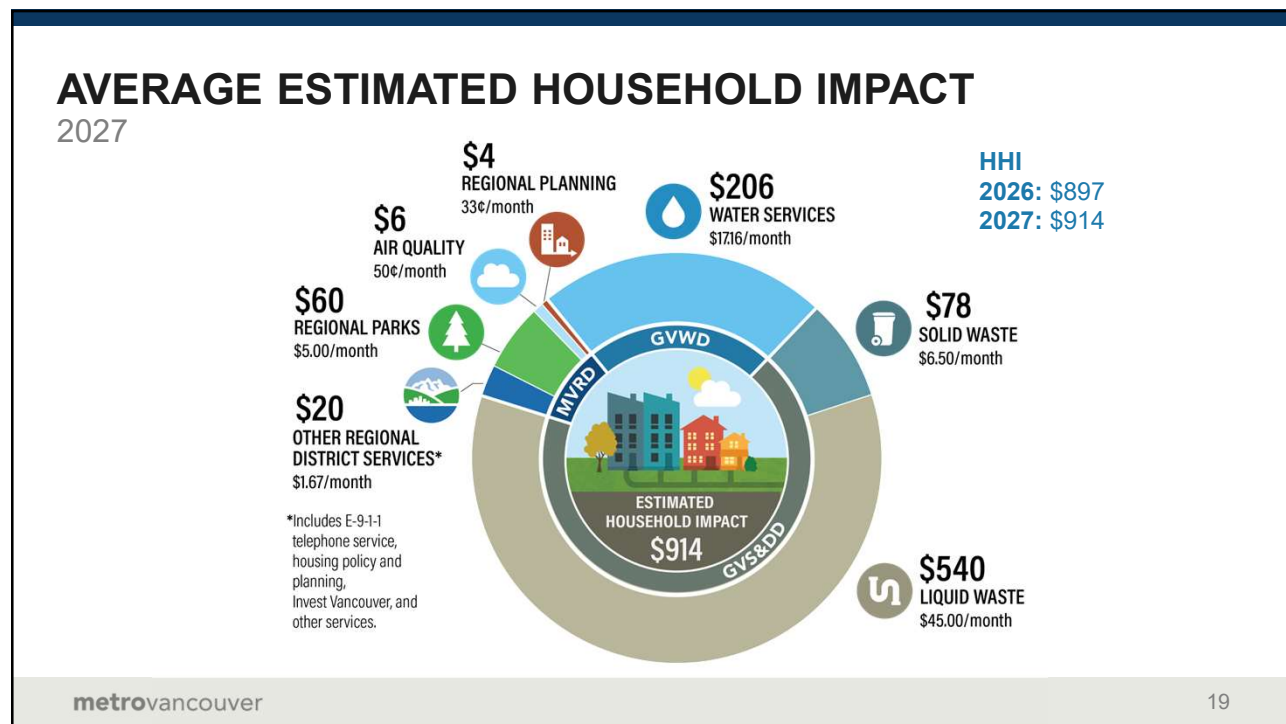
	2026 Budget	2027	2028	2029	2030	2031
Vancouver Sewerage Area	\$1,024	\$1,021	\$1,050	\$1,123	\$1,157	\$1,225
North Shore Sewerage Area	\$1,315	\$1,416	\$1,575	\$1,721	\$1,755	\$1,797
Lulu Island Sewerage Area	\$825	\$847	\$873	\$888	\$911	\$943
Fraser Sewerage Area	\$795	\$812	\$844	\$873	\$935	\$987
Region Wide Average (HHI)	\$897	\$914	\$953	\$999	\$1,048	\$1,101

*Details on liquid waste rates by sewerage area are in the liquid waste section of this presentation.
All other services are one regional average.*

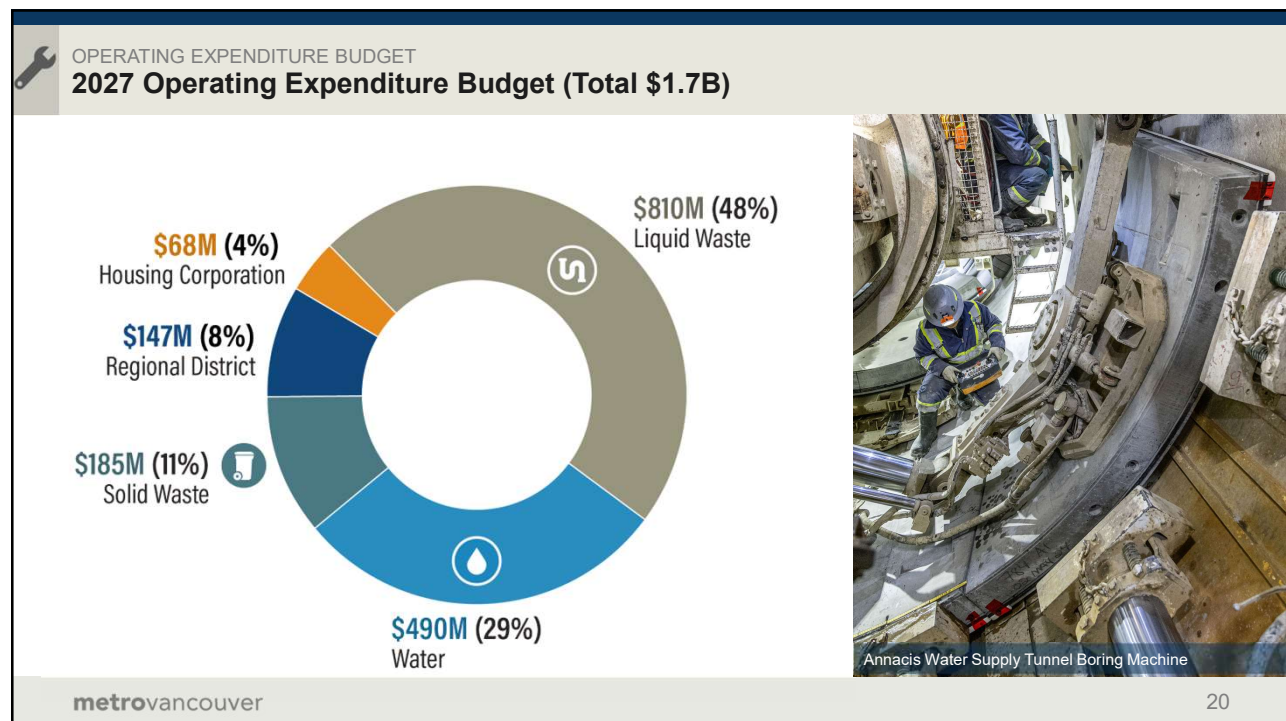
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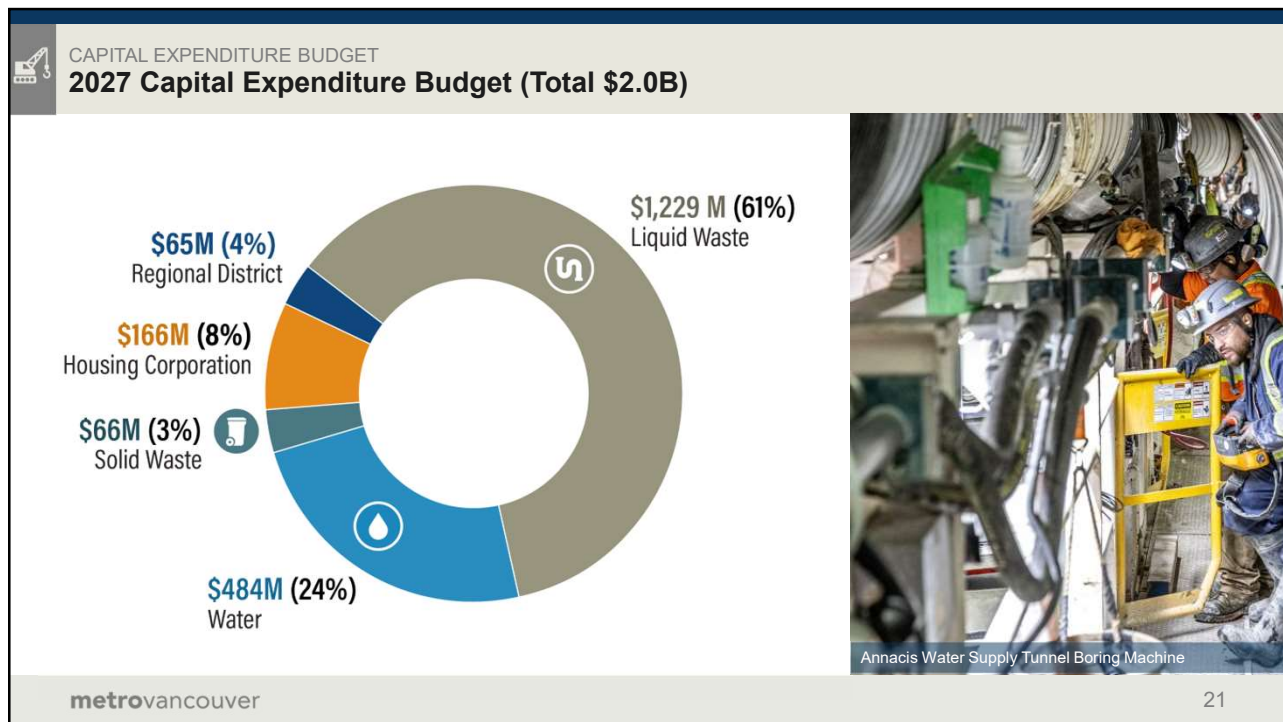
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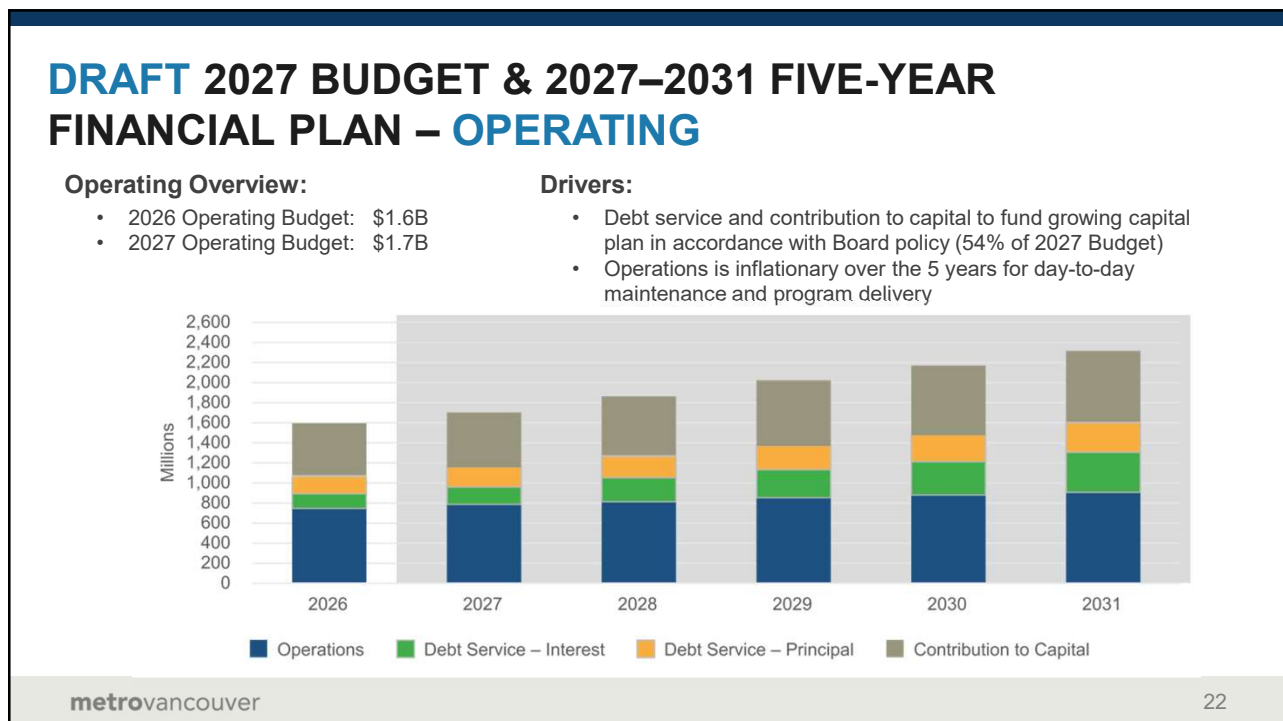
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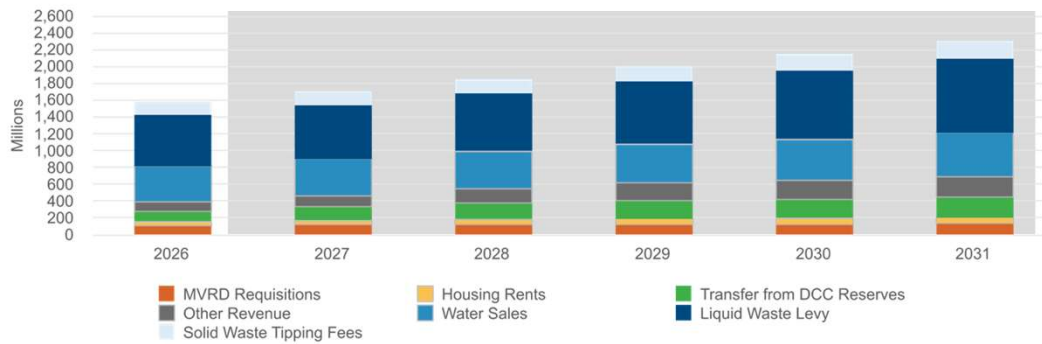
DRAFT 2027 BUDGET & 2027–2031 FIVE-YEAR FINANCIAL PLAN – OPERATING FUNDING

Operating Overview:

- 2026 Operating Budget: \$1.6B
- 2027 Operating Budget: \$1.7B

Sources:

- Liquid waste levies, water sales and tipping fees are 73% of total operational funding (2027)
- MVRD Requisitions are 7% of total revenues (2027)
- DCCs are 10% of total revenues (2027)



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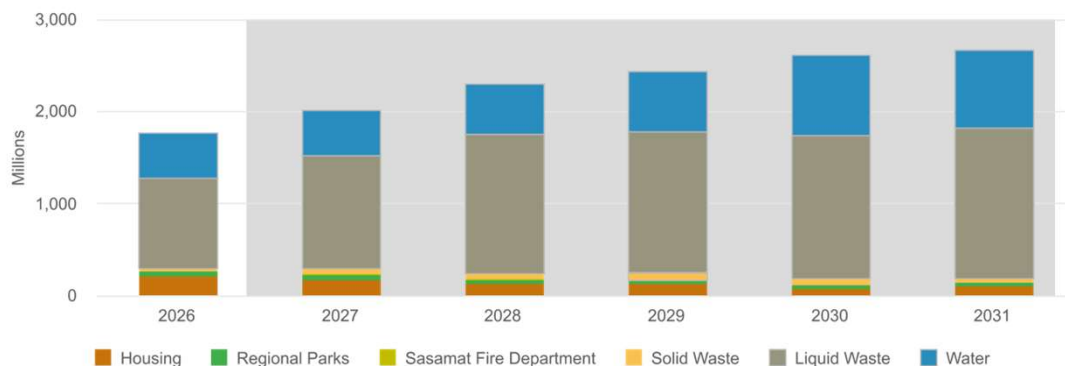
DRAFT 2027 BUDGET & 2027–2031 FIVE-YEAR FINANCIAL PLAN – CAPITAL

Overview:

- 2026 Capital Expenditure \$1.8B
- 2027 Capital Expenditure \$2.0B

Drivers:

- Continued activity on previously approved projects
- 85% Water and Liquid Waste projects



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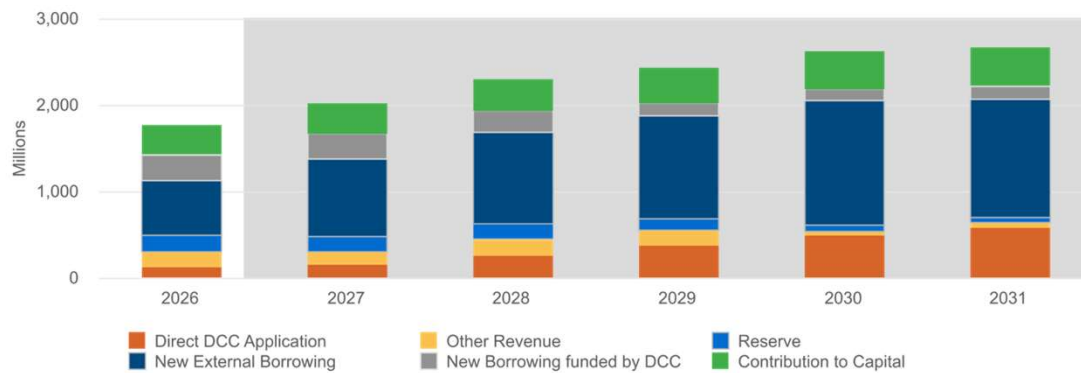
DRAFT 2027 BUDGET & 2027-2031 FIVE-YEAR FINANCIAL PLAN – CAPITAL FUNDING

Overview:

- 2026 Capital Expenditure \$1.8B
- 2027 Capital Expenditure \$2.0B

Sources:

- Combined new borrowing funds 59% of the 2027 capital spend
- DCC Direct Application funds 7% of the 2027 capital spend



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To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: October 7, 2026

Meeting Date: October 14, 2026

Subject: **2027 Budget and 2027 – 2031 Financial Plan – Liquid Waste Services**

RECOMMENDATION

THAT the Liquid Waste Committee endorse the 2027 Budget and 2027 – 2031 Financial Plan for Liquid Waste Services as presented in the report dated October 7, 2026, titled “2027 Budget and 2027 – 2031 Financial Plan – Liquid Waste Services”, and forward it to the Board Budget Workshop on October 21, 2026 for consideration.

EXECUTIVE SUMMARY

The proposed 2027 operating budget for Liquid Waste Services is \$809.6 million, which is a \$51.1 million increase over 2026 primarily due to continued investments in capital infrastructure and inflationary increases. The total 2027 Capital Expenditure targets are \$1,228.7 million, with key investments in the North Shore Wastewater Treatment Plant (NSWWTP) and Iona Island Wastewater Treatment Plant, both of which are driven by regulatory changes, and in the Northwest Langley Wastewater Treatment Program, Annacis Island Wastewater Treatment Plant Stage 5 Expansion, and other projects to maintain assets in a state of good repair and to accommodate a growing population. The increase in the levy equates to a \$6 increase in the average household impact (HHI) from 2026, or \$540 per household for Liquid Waste Services in 2027. This increase is less than the previously forecasted HHI increase of \$18 per household, largely due to the \$235 million settlement related to the NSWWTP and higher anticipated Industrial Charges than previously forecasted.

Metro Vancouver’s 2027 Budget and 2027 - 2031 Five-Year Financial Plan have been prepared following direction received at the April 15, 2026 Board Budget Workshop. At the Board Budget Workshop, the Boards directed staff to bring back amendment bylaws to roll back Metro Vancouver’s 2026 development cost charge (DCC) rates to 2025 levels, lower the planned increase to 2027 DCC rates, and extend the move to growth fully paying for growth (a 1% assist factor) from 2027 to 2029. These DCC amendment bylaws were approved at the July 24, 2026 Board meetings. The revision to DCC rates is anticipated to reduce Metro Vancouver’s revenues by \$389M over the five year plan. The Boards provided direction to fill this funding gap through a combination of additional borrowing and tax requisitions in the 2027-2031 Five-Year Financial Plan.

In addition, the Boards directed staff to develop the 2027-2031 Five-Year Financial Plan with household impact (HHI) targets of 3.0% for 2027, and 5.0% per year for 2028 to 2031. After review of all budgets and incorporating cost efficiencies from the 2026 to 2030 Financial planning process, the proposed 2027-2031 Five-Year Financial Plan has come under these targets, resulting in increases to the average household of 1.9% in 2027, 4.2% in 2028 and 5.0% in 2029, 2030 and 2031.

PURPOSE

To present the 2027 Budget and 2027 – 2031 Financial Plan for Liquid Waste Services for consideration by the Committee.

BACKGROUND

Metro Vancouver's annual budget process includes the development of detailed annual budgets and the updating of five-year financial plans for each of the four Metro Vancouver legal entities (Metro Vancouver Regional District, Metro Vancouver Housing Corporation, Greater Vancouver Water District, and Greater Vancouver Sewerage and Drainage District).

On April 15, the Board Budget Workshop was held with the objective of seeking direction for the preparation of the 2027 Budget and the 2027-2031 Financial Plan. At a related Special Joint Board meeting on April 15, the Boards gave early readings to amendment bylaws that would roll back Metro Vancouver's 2026 DCC rates to 2025 levels, lower the planned increase to 2027 DCC rates, and extend the move to growth fully paying for growth (a 1% assist factor) from 2027 to 2029. The intention was to find ways to support the delivery of housing in this challenging market. The revision in rates is anticipated to have a total impact of \$389M over six years. The Boards directed staff to fill the anticipated gap for GVWD and GVS&DD by increasing borrowing and for the MVRD by transferring the gap back to the taxpayer. The DCC amendment bylaws were adopted by the Boards on July 24, 2026.

Additionally, the Boards directed staff to develop the budget for MVRD, MVHC, GVWD and GVS&DD with the following household impact (HHI) targets:

- HHI increase of 3% for 2027; and
- HHI increase of 5% each year from 2028 to 2031.

All functional area budgets have been developed in the context of these Board decisions as well as recommendations arising from the Financial Plan Task Force (2023), the Cost and Service Efficiencies Review (2025) and the Board Governance Review (2026). As a result, the proposed 2027 - 2031 Five-Year Financial Plan is below the established targets, resulting in the following average household increases:

- 1.9% in 2027;
- 4.2% in 2028; and
- 5.0% in each year from 2029 to 2031.

This report focuses on Liquid Waste Services and presents the 2027 budget and the updated five-year plan for the years 2027 to 2031 for Committee consideration.

LIQUID WASTE SERVICES

The Liquid Waste Services function is comprised of 19 member jurisdictions within Metro Vancouver, serving a population of approximately 2.9 million residents. The wastewater collection and treatment system consists of over 530 kilometres of trunk sewers, 34 pump stations, three storage tanks and 5 treatment plants that transport and treat an average of 1.2 billion litres of wastewater per day. The urban drainage function is comprised of the Still Creek/Brunette, Port Moody/Coquitlam and University Drainage Areas.

Liquid Waste Services initiatives planned over the next five years are guided by direction provided in the *2022 - 2026 Board Strategic Plan*, and the 2026 Liquid Waste Management Plan, specifically:

Board Strategic Plan:

- Ensure that our critical regional infrastructure is sufficiently maintained or replaced to meet current and future service needs, and is resilient to impacts from seismic events, wildfires, power failures, and natural disasters.
- Ensure that our services and infrastructure are able to meet the needs of a growing population.

- Ensure that all services and infrastructure anticipate and meet regulatory requirements, and that the organization is responsive to legislative change.
- Deliver utility and regional services in a way that ensures affordability for residents and long-term financial sustainability for the organization, using sound fiscal policies that balance the organization's long-term financial health while maintaining affordability for regional ratepayers.
- Proactively work to respond to the climate emergency by preparing for the impacts of climate change and accelerating reductions in greenhouse gas emissions.
- Continue to make investments and adaptations in service areas to ensure that our communities and organizations can prepare, avoid, absorb, recover, and adapt to the effects of shocks and stresses in an efficient manner.

Liquid Waste Management Plan:

- Prevent pollution
- Reduce demands
- Recover resources
- Restore ecological systems
- Reflect First Nations' priorities

Metro Vancouver recognizes the history of Indigenous Peoples and aims to build meaningful and enduring relationships with First Nations. As part of its work, Liquid Waste Services is committed to engaging First Nation communities through information sharing, engagement and ongoing communication.

WORK PLAN PERFORMANCE INDICATORS

High level performance indicators have been developed across the organization to evaluate trends, determine key actions for the coming year, and to assist in short- and long-term planning. 2027 Work Plans for Liquid Waste Services are developed in part to address these indicators. The Work Plans are included as attachments to this report.

Several performance indicators have been developed and are being tracked to monitor and improve performance. Some key indicators are displayed on Metro Vancouver's website ([Liquid Waste | Metro Vancouver](#)):

- Volume of wastewater collected and treated
- Recreational water not meeting criteria
- Annual combined sewer overflow volume
- Sanitary sewer overflow events
- Water quality indices
- Biosolids beneficial use

The trend in these performance measures indicates that the regional Liquid Waste treatment plants have performed well in complying with existing treatment plant operational certificates, although the North Shore Sewerage Area continues to be out of compliance with Federal regulations since January 1, 2021 and will remain so until the North Shore Wastewater Treatment Plant (NSWWTP) commences secondary treatment of wastewater from the North Shore municipalities. Sanitary sewer overflows in the first half of 2026 have been higher than in the same period in 2025, as a result of significant rainfall. Progress on key projects and initiatives must continue to ensure that needed infrastructure is delivered to comply with regulatory requirements, meet demands resulting from growth and to make progress on climate change mitigation actions.

CONTINUOUS IMPROVEMENT

Several continuous improvement initiatives have resulted in the following achievements:

- Expanded in-house construction capacity to allow the execution of larger scale, complex, and higher community impact projects.
- The Lulu Island WWTP effluent heat recovery project is being designed that will increase the amount of biomethane available for conversion to renewable natural gas, resulting in a \$150,000 increase in revenue each year.
- A review of the Trucked Liquid Waste rates will result in a \$1.9 million increase in annual revenue in 2026, in addition to increased revenues in 2025.
- Improvements to planning and delivery of after-hours trades support resulted in a 27% improvement in trades coverage, with annual ongoing savings of \$115,000.

In 2027, the following projects are highlighted that will commence or continue, resulting in further improvements:

- Establishing a quarterly roundtable with engineering, design, and construction consultants, to create awareness of upcoming procurement opportunities, so that firms have more time and information to prepare bids.
- Testing digestion intensification pilot process, with intent to meet capacity needs until expansion projects are complete.
- Obtaining temporary bypass authorization from the Province, to streamline authorization and speed up infrastructure replacement projects.
- Red Tape Reducer: Implementing staff-led initiatives to reduce red tape that were gathered and prioritized in 2026.
- Implementing a fish telemetry study in the Fraser River, to assess new methodologies for better estimating the impact of Metro Vancouver's discharged treated sewage on fish.

2027 BUDGET AND 2027 – 2031 FINANCIAL PLAN

The 2027 Budget and 2027-2031 Financial Plan have been developed in consideration of recommendations arising from the Financial Plan Task Force, the Cost and Service Efficiencies Review, the Board Governance Review, and subsequent Board direction received throughout 2026.

To support the 2027 Budget and Five-Year Financial Plan, each Metro Vancouver function has a Work Plan that includes strategic directions, performance indicators and key actions to guide the work for the coming year, described in more detail below and included in the attachments. Each function also has a "What's Happening" summary that presents program highlights for the next five years.

The 2027 – 2031 Liquid Waste Services Financial Plan is included as **Attachment 1**. The Liquid Waste Services Capital Budget Summary is included as **Attachment 2**. The 2027 Annual Work Plans for Liquid Waste Services presented in this report are included in **Attachment 3** and the "What's Happening" highlights for the years 2027 – 2031 are included in **Attachment 4**.

Operating Budget Highlights

The Liquid Waste Services operating budget is separated into operating programs and funding required to support the expanding capital program (debt service and contribution to capital) for each sewerage area. The total proposed increase is \$51.1 million (6.7%) for a total of \$809.6 million (Attachment 1). A significant portion of the net increase (\$51.1 million) can be attributed to increases in debt servicing of \$33.3 million offset by slightly less contribution to capital of \$2.9 million supporting the major capital infrastructure investments required to meet service requirements and growth demands. The balance of the increase can be attributed to a net proposed increase in operating costs (\$9.2 million) and allocated corporate centralized (\$11.5 million) costs, due to impacts from general and labour inflation, impacts

from policy changes related to the allocation of corporate centralized support costs and the initiation of construction of an innovative hydrothermal liquefaction pilot facility.

The 2027 operating budget includes the following key actions:

- Receive provincial approval of the *Liquid Waste Management Plan* and begin implementation of actions including setting up an online reporting dashboard, supporting members to reduce their wet weather sewer levies, and continuing discussions with First Nations for improved collaboration.
- Update Sewer Use Bylaw fees to improve cost recovery and other actions to minimize upstream impacts to the wastewater system and environment.
- Assess operational control strategies to reduce CSO sanitary loadings in the VSA system.
- Test intensified digestion at Lulu Island Pilot Digestion Optimization Facility (PDOF) to support WWTP expansion planning and new compliance approach for biosolids.
- Complete contract to support capital investment in sewer heat recovery project in City of Surrey.
- Initiate on-site GHG monitoring at Annacis Island or Iona Island WWTP, to identify, quantify, and ultimately reduce sources of fugitive emissions from wastewater treatment process units.
- Complete construction of the first major linear sewer project using in-house construction crews based on an in-house design (Stoney Creek).
- Complete the construction of the South Surrey Interceptor twinning to increase the capacity of this trunk sewer.
- Complete the construction of the Glen Eagles Forcemain No. 3 and 4 replacement and the rehabilitation of the Glen Eagles Pump Station No. 4.
- Continue False Creek water quality monitoring and assessment in collaboration with Friends of False Creek, Raincoast Conservation Foundation and the City of Vancouver.
- Initiate review of historical CSO data to identify potential trends in outfall discharges over time.
- Initiate modelling on fate and transport of fine particulate materials associated with CSOs and WWTP effluent.
- Continue collaboration with Simon Fraser University on development of genomics solutions for understanding impacts of WWTP discharges on Fraser River Chinook salmon.
- Conduct pilot assessment for the use of acoustic telemetry for tracking fish to assess site fidelity of fish species in the Fraser River.
- Establish an asset risk evaluation framework and commence with the application of this framework for existing assets on a priority basis.
- Complete assessment to optimize routes of crews based on geospatial preventative maintenance schedules and compare driving time for before and after optimization to quantify benefits.

Highlights of contracts and consulting assignments anticipated to be undertaken in 2027 to respond to work plan requirements within the operating budget include the following:

- Iona Island WWTP sludge lagoon dewatering, biosolids program hauling and beneficial use projects.
- Temporary flow monitoring, data collection and analysis.
- Operation support, sampling and analysis for the operation of the Hydrothermal Liquefaction Demonstration Pilot.
- Environmental monitoring programs for Burrard Inlet and Lions Gate WWTP, Strait of Georgia and Iona Island WWTP; Fraser River, Annacis Island WWTP and Northwest Langley WWTP.
- Additional environmental monitoring assignments that are regularly contracted for highly specialized functions, including: effluent toxicity testing, combined sewer overflow

characterization and risk assessments, sanitary sewer overflow modelling and risk assessments, wastewater and biosolids characterization for CECs and toxics, development of environmental management system, hydrodynamic modelling.

- Monitoring and quantification of greenhouse gas fugitive emissions at Annacis Island WWTP or Iona Island WWTP.

Over the next five years, the Liquid Waste Services budget is projected to increase an average of \$93.8 million or 10.1% per year. One of the major drivers of this overall increase is the funding related to the expanding capital program (debt servicing and contributions to capital), which is increasing an average of \$78.1 million or 12.9% per year. The operating and allocated programs expenditures are increasing by close to \$15.7 million or 4.9% per year on average, which is largely inflationary to address core operating and facility commissioning requirements and increases in corporate program allocations.

Capital Budget Highlights

The Liquid Waste Services capital program expenditures for 2027 – 2031 are projected at \$7.4 billion (Attachment 2), an average of \$1.48 billion per year. This amount includes all capital projects underway or planned in the next five years. For 2027, capital expenditures are projected at \$1.2 billion. The capital program is funded by a combination of long-term debt, contributions from the operating budget, some external (interagency and senior level government grant) contributions, and development cost charges (DCCs).

There are 149 projects on the capital plan, of which the largest ten projects (\$100 million and greater expenditures between 2027 – 2031) make up approximately 72% of the capital expenditures over the next five years. Table 1 highlights the key capital projects planned or ongoing for 2027.

Table 1. Key Liquid Waste Services Capital Projects in 2027 (\$ Millions)

Infrastructure Type	Project Name	Infrastructure Driver	2027 Capital Expenditures
Treatment Plants	North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning	Upgrade	\$761.2
Treatment Plants	Iona Island Wastewater Treatment Plant	Upgrade	\$124.6
Treatment Plants	Northwest Langley Wastewater Treatment Program	Growth	\$71.2
Treatment Plants	AIWWTP Stage 5 Expansion	Growth	\$49.5
Treatment Plants	Annacis Outfall System	Growth	\$22.7
Collections	NSI SSO Storage	Upgrade	\$17.3
Collections	Gleaneagles Forcemain Replacement	Maintenance	\$10.4
Treatment Plants	AIWWTP Hydrothermal Processing Pilot	Opportunity	\$8.9
Collections	Stoney Creek Sanitary Trunk	Growth	\$8.7
Treatment Plants	LIWWTP Trickling Filter Refurbishment	Maintenance	\$8.6

Reserve Funds

The application of reserve funding in Liquid Waste Services is primarily made through the Sustainability Innovation Fund Reserve, Drainage Area General Reserve and the Laboratory Equipment Reserve. In 2027, the financial plan includes the application of \$3.4M from the Drainage Area General Reserve for several Drainage Area initiatives and capital projects, an application of \$0.25M from the Liquid Waste laboratory equipment reserve for equipment and an application of \$127.9M for the NSWTP Program. The 2027 – 2031 Projected Reserves for Liquid Waste Services is included in **Attachment 5**.

Wet Weather Cost Allocation

To address the increasing challenge of managing I&I of rainwater into the regional sewer systems and to ensure that costs for services are equitably allocated, wet weather pricing for liquid waste collection and transportation is being adopted. The first year of a 10-year gradual transition period commenced in 2024. The transition to the wet weather pricing apportionment will move to 40% in 2027. Questions from member jurisdictions regarding the details of the methodology being used for measuring wet weather flows continue to be addressed at the request of members.

APPROVAL PROCESS

The proposed 2027 Budget and 2027 – 2031 Financial Plan and Annual Work Plan is presented for consideration and endorsement before being forwarded to the Board for consideration.

The next steps of the process are:

- The 2027 Budget and 2027 – 2031 Financial Plan and Annual Work Plan will be presented for consideration at the Board Budget Workshop on October 21, 2026.
- The Board will consider approval of the 2027 Budget and endorsement of the 2027 – 2031 Financial Plan on October 30, 2026.

ALTERNATIVES

1. THAT the Liquid Waste Committee endorse the 2027 Budget and 2027 – 2031 Financial Plan for Liquid Waste Services as presented in the report dated October 7, 2026, titled “2027 Budget and 2027 – 2031 Financial Plan – Liquid Waste Services”, and forward it to the Board Budget Workshop on October 21, 2026 for consideration.
2. THAT the Liquid Waste Committee amend the 2027 Budget and 2027 – 2031 Financial Plan for Liquid Waste Services as follows: _____; and forward the amended Financial Plan to the Board Budget Workshop on October 21, 2026 for consideration.

FINANCIAL IMPLICATIONS

If the Committee endorses the 2027 Budget and endorses the Five-Year Financial Plan for the Liquid Waste Services, as presented under Alternative 1, subject to the GVS&DD Board approval, the 2027 Operating Budget for Liquid Waste Services, the annual Liquid Waste levy will increase by \$20.2 million (3.3%) to \$631.2 million which will generate the majority of the \$809.6 million in total revenue required to fund the projected operating expenditures. The balance of funding, \$178.4 million, is expected to come from development cost charge contributions, reserves, industrial permittee fees, other user fees such as trucked liquid waste and source control permit fees, and other external sources. The increase in the Liquid Waste levy equates to a \$6 increase in the average HHI from 2026, or \$540 per household for Liquid Waste Services in 2027, which is less than the previously planned HHI of \$552 for 2027.

Over the term of the five-year Financial Plan, the Liquid Waste Services annual levy is projected to increase by an average of \$53.8 million per year to provide the required revenue to offset projected expenditures. It is anticipated that the cost to the average regional household over the next five years will rise from \$540 in 2027 to \$690 in 2031 representing an average annual increase of \$31. Table 2 below summarizes the 2027 — 2031 Liquid Waste Services Financial Plan.

2027 Budget and 2027 – 2031 Financial Plan – Liquid Waste Services

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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Table 2. 2027 Budget and 2027-2031 Financial Plan – Liquid Waste Services

	2027	2028	2029	2030	2031
Total Operating Expenditures (\$ Millions)	\$809.6	\$914.6	\$1,037.1	\$1,128.9	\$1,227.3
Liquid Waste Service Levy (\$ Millions)*	\$631.2	\$680.4	\$744.3	\$816.4	\$880.0
Total Capital Expenditures (\$ Millions)	\$1,228.7	\$1,513.6	\$1,525.9	\$1,545.0	\$1,625.3
Household Impact (\$)	\$540	\$571	\$608	\$650	\$690

**The balance of funding, \$178.4 million, is expected to come from development cost charge contributions, reserves, user fees (industrial and trucked liquid waste) and other external sources*

Under Alternative 2, the Committee may wish to consider recommending amendments to the 2027 Budget and Five-Year Financial Plan for consideration at the Board Budget Workshop. Any changes to the plan may impact the provision of Liquid Waste Services for the region and could have implications for Metro Vancouver's broader financial plans, priorities, and service delivery commitments across the organization.

CONCLUSION

The 2027 Budget and Five-Year Financial Plan for Liquid Waste Services has been prepared following direction received at the April Board Budget Workshop. It is presented to the Committee to provide information on the activities and financial impacts associated with delivering Liquid Waste Services from 2027 to 2031.

The 2027 Budget and Five-Year Financial Plan for Liquid Waste Services provides the opportunity for Metro Vancouver to share with its member jurisdictions the proposed capital projects and operating programs, and the financial impact of these projects, over the next five years. The financial plan illustrates how Metro Vancouver proposes to pay for Liquid Waste Services investments, required maintenance to assets, and respond to the region's growing population. It is intended to be used as a guiding document for member jurisdictions in the development of their five-year financial plans and includes projections on household impact to demonstrate how the plan will remain affordable for Metro Vancouver residents while keeping pace with critical infrastructure requirements.

Staff recommend endorsing the 2027 – 2031 Budget and Five-Year Financial Plan for Liquid Waste Services as presented under Alternative 1.

ATTACHMENTS

1. 2027 – 2031 Liquid Waste Services Financial Plan.
2. 2027 – 2031 Liquid Waste Services Capital Budget Summary.
3. 2027 Liquid Waste Services Work Plans.
4. 2027 – 2031 "What's Happening".
5. 2027 – 2031 Projected Reserves – Liquid Waste Services.
6. Presentation re: 2027 Budget and 2027 – 2031 Liquid Waste Services Financial Plan.

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
LIQUID WASTE SERVICES
2027 — 2031 FINANCIAL PLAN
2027 BUDGET

DRAFT

	2026 BUDGET	2027 BUDGET	% CHANGE	2028 PLAN	% CHANGE	2029 PLAN	% CHANGE	2030 PLAN	% CHANGE	2031 PLAN	% CHANGE
REVENUES											
Liquid Waste Services Levy	\$ 610,993,863	\$ 631,205,830	3.3%	\$ 680,366,801	7.8%	\$ 744,274,237	9.4%	\$ 816,385,273	9.7%	\$ 879,982,920	7.8%
User Fees	8,120,976	8,651,264		9,491,194		10,514,884		11,703,082		12,598,377	
Transfer from DCC Reserves	108,022,130	119,972,530		129,544,648		154,478,541		151,128,522		175,645,008	
Liquid Waste Industrial Charges	19,380,426	24,913,555		25,536,394		26,174,804		26,829,174		27,499,903	
Other External Revenues	2,361,840	1,921,461		1,717,083		1,750,183		1,753,283		1,756,383	
Transfer from Sustainability Innovation Fund Reserves	2,174,852	—		—		—		—		—	
Transfer from Reserves	7,414,402	22,948,452		67,939,741		99,896,160		121,064,532		129,855,037	
TOTAL REVENUES	\$ 758,468,489	\$ 809,613,092	6.7%	\$ 914,595,861	13.0%	\$1,037,088,809	13.4%	\$1,128,863,866	8.8%	\$1,227,337,628	8.7%
EXPENDITURES											
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	3,339,279	3,738,781		3,883,035		4,004,094		4,127,866		4,253,916	
Utility Policy and Planning	3,685,396	3,745,871		3,873,129		3,984,686		4,099,637		4,217,932	
Wastewater Research and Innovation	3,726,921	1,874,846		1,968,361		2,058,448		2,140,164		2,240,318	
Wastewater Facilities Planning	547,023	529,663		551,545		902,876		937,636		973,830	
	12,425,619	11,016,161	(11.3%)	11,403,070	3.5%	12,077,104	5.9%	12,432,303	2.9%	12,812,996	3.1%
Management Systems and Utility Services											
Annacis Research Centre	631,304	686,851		665,044		669,590		691,841		701,088	
Dispatch	190,380	195,917		201,541		207,116		212,856		218,760	
Corporate Climate Action and Energy Management	608,987	916,724		935,372		926,438		929,277		967,900	
Engineers in Training	806,524	807,719		841,198		865,661		886,978		912,917	
Management Systems Utility Services	1,158,526	1,286,851		1,316,334		1,350,737		1,385,845		1,421,608	
Records Management	213,390	222,085		230,149		236,874		243,800		250,929	
Utility Voice Radio	150,861	156,352		160,899		165,137		169,487		174,226	
	3,759,972	4,272,499	13.6%	4,350,537	1.8%	4,421,553	1.6%	4,520,084	2.2%	4,647,428	2.8%
Environmental Management and Quality Control											
Environmental Management and Quality Control	18,218,336	19,909,160		21,247,743		23,327,963		22,961,764		23,772,979	
Source Compliance Monitoring	704,408	722,018		593,122		595,591		626,948		626,626	
Contribution to Reserve	113,638	116,639		121,220		126,005		131,006		134,953	
	19,036,382	20,747,817	9.0%	21,962,085	5.9%	24,049,559	9.5%	23,719,718	(1.4%)	24,534,558	3.4%
Engineering, Design & Construction											
Minor Capital Projects	10,224,032	10,566,268		10,837,883		11,061,440		11,277,874		11,476,166	
	10,224,032	10,566,268	3.3%	10,837,883	2.6%	11,061,440	2.1%	11,277,874	2.0%	11,476,166	1.8%
Operations and Maintenance											
Liquid Waste Residuals	34,390,138	36,031,346		39,158,067		43,223,944		44,272,479		44,463,110	
Maintenance	43,721,401	44,822,393		46,094,421		47,683,581		49,632,669		50,886,934	
SCADA Control Systems	1,587,658	1,632,768		1,685,023		1,701,318		1,748,041		1,799,413	
Urban Drainage	2,337,177	2,209,448		2,272,851		2,329,298		2,412,354		2,447,042	
Wastewater Collection	21,371,610	22,839,432		24,456,983		25,365,731		26,752,809		27,671,189	
Wastewater Treatment	75,196,186	79,135,113		83,952,994		84,244,633		87,627,903		92,954,625	
Site Security Services	—	171,889		176,186		180,591		185,106		189,733	
Asset Management	2,775,530	2,581,724		2,668,906		2,744,112		2,821,509		2,901,104	
	181,379,700	189,424,113	4.4%	200,465,431	5.8%	207,473,208	3.5%	215,452,870	3.8%	223,313,150	3.6%
Administration and Allocated Programs											
Administration and Department Support	3,212,244	3,367,572		3,441,222		3,584,922		3,633,222		3,792,125	
Community Engagement and Communications	531,203	2,992,203		3,086,988		3,171,564		3,258,529		3,347,902	
Environmental Regulation and Enforcement	2,661,274	2,739,890		2,834,705		2,910,345		3,006,396		3,082,369	
Allocation of Project Delivery Cost	6,278,529	5,946,751		5,917,828		6,064,517		6,219,322		6,316,803	
Allocation of Centralized Support Costs	47,561,865	56,731,973		59,856,878		64,014,309		69,239,387		71,980,467	
	60,245,115	71,778,389	19.1%	75,137,621	4.7%	79,745,657	6.1%	85,356,856	7.0%	88,519,666	3.7%
Total Operating Programs	287,070,820	307,805,247	7.2%	324,156,627	5.3%	338,828,521	4.5%	352,759,705	4.1%	365,303,964	3.6%
Debt Service - Growth	131,194,179	141,145,708	7.6%	156,140,957	10.6%	173,341,095	11.0%	193,990,168	11.9%	218,830,387	12.8%
Debt Service - Non-Growth	50,751,782	74,101,484	46.0%	125,791,182	69.8%	169,805,288	35.0%	216,856,788	27.7%	265,317,999	22.3%
Contribution to Capital	289,451,708	286,560,653	(1.0%)	308,507,095	7.7%	355,113,905	15.1%	365,257,205	2.9%	377,885,278	3.5%
TOTAL EXPENDITURES	\$ 758,468,489	\$ 809,613,092	6.7%	\$ 914,595,861	13.0%	\$1,037,088,809	13.4%	\$1,128,863,866	8.8%	\$1,227,337,628	8.7%

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
LIQUID WASTE SERVICES
2027 — 2031 FINANCIAL PLAN
VANCOUVER SEWERAGE AREA
2027 BUDGET

DRAFT

	2026 BUDGET	2027 BUDGET	% CHANGE	2028 PLAN	% CHANGE	2029 PLAN	% CHANGE	2030 PLAN	% CHANGE	2031 PLAN	% CHANGE
REVENUES											
Liquid Waste Services Levy	\$ 194,551,512	\$ 191,302,302	(1.7%)	\$ 200,377,893	4.7%	\$ 224,622,133	12.1%	\$ 238,702,785	6.3%	\$ 259,382,041	8.7%
User Fees	2,473,636	2,646,290		2,924,375		3,264,746		3,660,855		3,957,175	
Transfer from DCC Reserves	9,726,711	10,226,191		11,303,142		13,508,741		13,658,733		16,743,353	
Liquid Waste Industrial Charges	5,248,061	8,043,118		8,244,196		8,450,301		8,661,558		8,878,097	
Other External Revenues	146,432	62,617		63,772		64,927		66,082		67,236	
Transfer from Sustainability Innovation Fund Reserves	816,004	—		—		—		—		—	
Transfer from Reserves	1,429,447	4,681,801		13,604,180		20,126,979		24,284,655		26,126,127	
TOTAL REVENUES	\$ 214,391,803	\$ 216,962,319	1.2%	\$ 236,517,558	9.0%	\$ 270,037,827	14.2%	\$ 289,034,668	7.0%	\$ 315,154,029	9.0%
EXPENDITURES											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 422,850	\$ 419,807		\$ 419,807		\$ 419,807		\$ 419,807		\$ 419,807	
Utility Analysis and Infrastructure	1,187,237	1,392,696		1,446,431		1,491,525		1,537,630		1,584,584	
Utility Policy and Planning	1,321,294	1,333,225		1,379,500		1,420,123		1,461,982		1,505,059	
Wastewater Research and Innovation	1,398,341	698,380		733,214		766,772		797,211		834,518	
Wastewater Facilities Planning	205,243	197,299		205,451		336,321		349,269		362,752	
	4,534,965	4,041,407	(10.9%)	4,184,403	3.5%	4,434,548	6.0%	4,565,899	3.0%	4,706,720	3.1%
Management Systems and Utility Services											
Annacis Research Centre	236,865	255,852		247,729		249,422		257,711		261,155	
Dispatch	57,479	56,229		57,843		59,443		61,091		62,785	
Corporate Climate Action and Energy Management	183,862	263,115		268,467		265,903		266,718		277,803	
Engineers in Training	302,599	300,902		313,374		322,487		330,429		340,092	
Management Systems Utility Services	349,782	369,339		377,801		387,675		397,751		408,016	
Records Management	64,426	63,740		66,054		67,984		69,972		72,018	
Utility Voice Radio	54,167	56,138		57,771		59,293		60,854		62,556	
	1,249,180	1,365,315	9.3%	1,389,039	1.7%	1,412,207	1.7%	1,444,526	2.3%	1,484,425	2.8%
Environmental Management and Quality Control											
Environmental Management and Quality Control	6,632,536	7,209,831		7,704,558		8,473,403		8,334,301		8,630,653	
Source Compliance Monitoring	264,294	268,952		220,938		221,858		233,538		233,418	
Contribution to Reserve	42,637	43,448		45,154		46,937		48,800		50,270	
	6,939,467	7,522,231	8.4%	7,970,650	6.0%	8,742,198	9.7%	8,616,639	(1.4%)	8,914,341	3.5%
Engineering, Design & Construction											
Minor Capital Projects	2,598,006	2,745,113		2,828,680		2,907,238		2,976,331		3,016,797	
	2,598,006	2,745,113	5.7%	2,828,680	3.0%	2,907,238	2.8%	2,976,331	2.4%	3,016,797	1.4%
Operations and Maintenance											
Liquid Waste Residuals	16,276,430	16,878,561		18,061,864		21,700,477		22,476,933		20,451,590	
Maintenance	12,632,743	12,671,951		13,380,137		13,633,762		14,226,191		14,311,735	
SCADA Control Systems	443,275	455,864		470,452		474,976		488,018		502,358	
Wastewater Collection	6,093,257	6,444,331		6,724,875		6,922,663		7,164,853		7,394,541	
Wastewater Treatment	19,167,598	20,288,847		21,898,378		22,571,971		22,693,831		26,784,352	
Site Security Services	—	64,029		65,629		67,270		68,952		70,676	
Asset Management	1,041,379	968,663		1,001,374		1,029,591		1,058,630		1,088,494	
	55,654,682	57,772,246	3.8%	61,602,709	6.6%	66,400,710	7.8%	68,177,408	2.7%	70,603,746	3.6%
Administration and Allocated Programs											
Administration and Department Support	969,841	966,527		987,665		1,028,908		1,042,771		1,088,378	
Community Engagement and Communications	199,307	1,114,596		1,149,903		1,181,408		1,213,802		1,247,093	
Environmental Regulation and Enforcement	507,239	522,223		540,295		554,712		573,019		587,500	
Allocation of Project Delivery Cost	1,723,214	1,586,094		1,578,380		1,617,504		1,658,794		1,684,794	
Allocation of Centralized Support Costs	13,745,147	15,390,070		15,637,022		16,339,757		18,107,501		18,396,345	
	17,144,748	19,579,510	14.2%	19,893,265	1.6%	20,722,289	4.2%	22,595,887	9.0%	23,004,110	1.8%
Total Operating Programs	88,121,048	93,025,822	5.6%	97,868,746	5.2%	104,619,190	6.9%	108,376,690	3.6%	111,730,139	3.1%
Debt Service - Growth	11,940,810	12,115,461	1.5%	13,690,972	13.0%	15,198,352	11.0%	17,448,213	14.8%	20,579,776	17.9%
Debt Service - Non-Growth	7,837,224	10,939,480	39.6%	19,943,589	82.3%	27,252,301	36.6%	37,123,776	36.2%	52,140,340	40.4%
Contribution to Capital	106,492,721	100,881,556	(5.3%)	105,014,251	4.1%	122,967,984	17.1%	126,085,989	2.5%	130,703,774	3.7%
TOTAL EXPENDITURES	\$ 214,391,803	\$ 216,962,319	1.2%	\$ 236,517,558	9.0%	\$ 270,037,827	14.2%	\$ 289,034,668	7.0%	\$ 315,154,029	9.0%

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
LIQUID WASTE SERVICES
2027 — 2031 FINANCIAL PLAN
NORTH SHORE SEWERAGE AREA
2027 BUDGET

DRAFT

	2026 BUDGET	2027 BUDGET	% CHANGE	2028 PLAN	% CHANGE	2029 PLAN	% CHANGE	2030 PLAN	% CHANGE	2031 PLAN	% CHANGE
REVENUES											
Liquid Waste Services Levy	\$ 78,331,165	\$ 86,725,391	10.7%	\$ 100,555,439	15.9%	\$ 113,920,475	13.3%	\$ 118,206,226	3.8%	\$ 122,100,690	3.3%
User Fees	69,404	71,074		72,807		74,579		76,392		78,246	
Transfer from DCC Reserves	3,952,515	5,030,528		6,892,151		8,846,621		9,515,619		10,592,249	
Liquid Waste Industrial Charges	1,938,380	2,315,879		2,373,776		2,433,120		2,493,948		2,556,297	
Other External Revenues	24,387	10,691		10,888		11,085		11,283		11,480	
Transfer from Sustainability Innovation Fund Reserves	138,756	—		—		—		—		—	
Transfer from Reserves	3,373,658	9,978,267		30,096,377		44,060,147		53,668,857		57,456,660	
TOTAL REVENUES	\$ 87,828,265	\$ 104,131,830	18.6%	\$ 140,001,438	34.4%	\$ 169,346,027	21.0%	\$ 183,972,325	8.6%	\$ 192,795,622	4.8%
EXPENDITURES											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 71,903	\$ 71,677		\$ 71,677		\$ 71,677		\$ 71,677		\$ 71,677	
Utility Analysis and Infrastructure	201,881	237,786		246,961		254,660		262,532		270,549	
Utility Policy and Planning	224,676	227,632		235,533		242,469		249,616		256,971	
Wastewater Research and Innovation	237,777	119,240		125,188		130,917		136,114		142,484	
Wastewater Facilities Planning	34,900	33,687		35,078		57,423		59,634		61,936	
	771,137	690,022	(10.5%)	714,437	3.5%	757,146	6.0%	779,573	3.0%	803,617	3.1%
Management Systems and Utility Services											
Annacis Research Centre	40,277	43,684		42,297		42,586		44,001		44,589	
Dispatch	19,459	23,055		23,717		24,373		25,048		25,743	
Corporate Climate Action and Energy Management	62,247	107,883		110,078		109,026		109,360		113,906	
Engineers in Training	51,465	51,315		53,442		54,996		56,350		57,998	
Management Systems Utility Services	118,425	151,437		154,906		158,955		163,086		167,295	
Records Management	21,811	26,134		27,083		27,874		28,690		29,528	
Utility Voice Radio	14,360	14,882		15,315		15,718		16,132		16,584	
	328,044	418,390	27.5%	426,838	2.0%	433,528	1.6%	442,667	2.1%	455,643	2.9%
Environmental Management and Quality Control											
Environmental Management and Quality Control	1,286,262	1,402,645		1,491,564		1,627,709		1,607,552		1,663,023	
Source Compliance Monitoring	44,941	45,920		37,723		37,879		39,874		39,854	
Contribution to Reserve	7,250	7,418		7,710		8,014		8,332		8,583	
	1,338,453	1,455,983	8.8%	1,536,997	5.6%	1,673,602	8.9%	1,655,758	(1.1%)	1,711,460	3.4%
Engineering, Design & Construction											
Minor Capital Projects	1,989,992	2,010,222		2,019,258		2,027,683		2,035,300		2,080,518	
	1,989,992	2,010,222	1.0%	2,019,258	0.4%	2,027,683	0.4%	2,035,300	0.4%	2,080,518	2.2%
Operations and Maintenance											
Liquid Waste Residuals	1,008,098	1,067,220		1,165,239		1,192,015		1,207,041		1,336,121	
Maintenance	4,580,532	4,819,916		4,943,226		5,224,721		5,480,209		5,688,122	
SCADA Control Systems	230,205	236,763		244,348		246,787		253,565		261,027	
Wastewater Collection	3,948,796	4,189,843		5,228,409		5,398,063		5,648,159		5,861,940	
Wastewater Treatment	11,433,784	11,333,679		12,059,477		12,422,037		12,758,810		13,107,226	
Site Security Services	—	10,932		11,205		11,486		11,773		12,067	
Asset Management	177,079	164,714		170,275		175,074		180,012		185,091	
	21,378,494	21,823,067	2.1%	23,822,179	9.2%	24,670,183	3.6%	25,539,569	3.5%	26,451,594	3.6%
Administration and Allocated Programs											
Administration and Department Support	328,356	396,296		404,963		421,874		427,558		446,257	
Community Engagement and Communications	33,891	190,304		196,332		201,711		207,242		212,927	
Environmental Regulation and Enforcement	146,637	150,968		156,192		160,360		165,653		169,838	
Allocation of Project Delivery Cost	1,033,610	776,135	(24.9%)	772,361	(0.5%)	791,505	2.5%	811,710	2.6%	824,432	1.6%
Allocation of Centralized Support Costs	5,018,184	6,143,333		6,901,246		8,678,462		9,596,581		10,080,384	
	6,560,678	7,657,036	16.7%	8,431,094	10.1%	10,253,912	21.6%	11,208,744	9.3%	11,733,838	4.7%
Total Operating Programs	32,366,798	34,054,720	5.2%	36,950,803	8.5%	39,816,054	7.8%	41,661,611	4.6%	43,236,670	3.8%
Debt Service - Growth	4,760,907	5,762,754	21.0%	7,876,522	36.7%	9,559,825	21.4%	11,097,342	16.1%	12,175,075	9.7%
Debt Service - Non-Growth	12,816,216	24,744,351	93.1%	45,299,770	83.1%	59,362,775	31.0%	69,775,437	17.5%	75,365,981	8.0%
Contribution to Capital	37,884,344	39,570,005	4.4%	49,874,343	26.0%	60,607,373	21.5%	61,437,935	1.4%	62,017,896	0.9%
TOTAL EXPENDITURES	\$ 87,828,265	\$ 104,131,830	18.6%	\$ 140,001,438	34.4%	\$ 169,346,027	21.0%	\$ 183,972,325	8.6%	\$ 192,795,622	4.8%

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
LIQUID WASTE SERVICES
2027 — 2031 FINANCIAL PLAN
LULU ISLAND WEST SEWERAGE AREA
2027 BUDGET

DRAFT

	2026 BUDGET	2027 BUDGET	% CHANGE	2028 PLAN	% CHANGE	2029 PLAN	% CHANGE	2030 PLAN	% CHANGE	2031 PLAN	% CHANGE
REVENUES											
Liquid Waste Services Levy	\$ 51,101,947	\$ 53,671,481	5.0%	\$ 56,515,115	5.3%	\$ 58,412,033	3.4%	\$ 61,517,816	5.3%	\$ 64,690,922	5.2%
User Fees	148,570	152,266		156,024		159,872		163,811		167,844	
Transfer from DCC Reserves	2,909,369	3,801,028		3,966,090		4,750,033		4,561,464		5,475,531	
Liquid Waste Industrial Charges	880,685	1,210,794		1,241,064		1,272,090		1,303,893		1,336,490	
Other External Revenues	725,851	722,901		751,121		781,340		781,560		781,779	
Transfer from Sustainability Innovation Fund Reserves	153,545	—		—		—		—		—	
Transfer from Reserves	295,665	1,033,700		3,036,975		4,483,022		5,416,517		5,825,783	
TOTAL REVENUES	\$ 56,215,632	\$ 60,592,170	7.8%	\$ 65,666,389	8.4%	\$ 69,858,390	6.4%	\$ 73,745,061	5.6%	\$ 78,278,349	6.1%
EXPENDITURES											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 79,566	\$ 79,792		\$ 79,792		\$ 79,792		\$ 79,792		\$ 79,792	
Utility Analysis and Infrastructure	223,398	264,706		274,919		283,490		292,253		301,177	
Utility Policy and Planning	248,623	253,402		262,198		269,919		277,875		286,062	
Wastewater Research and Innovation	263,120	132,739		139,360		145,738		151,524		158,616	
Wastewater Facilities Planning	38,620	37,500		39,049		63,924		66,385		68,947	
	853,327	768,139	(10.0%)	795,318	3.5%	842,863	6.0%	867,829	3.0%	894,594	3.1%
Management Systems and Utility Services											
Annacis Research Centre	44,570	48,629		47,085		47,407		48,982		49,637	
Dispatch	14,131	14,921		15,350		15,774		16,212		16,661	
Corporate Climate Action and Energy Management	45,204	69,824		71,244		70,564		70,780		73,722	
Engineers in Training	56,936	57,211		59,582		61,315		62,825		64,662	
Management Systems Utility Services	85,997	98,007		100,252		102,872		105,546		108,270	
Records Management	15,839	16,914		17,529		18,041		18,568		19,111	
Utility Voice Radio	12,637	13,098		13,478		13,834		14,199		14,594	
	275,314	318,604	15.7%	324,520	1.9%	329,807	1.6%	337,112	2.2%	346,657	2.8%
Environmental Management and Quality Control											
Environmental Management and Quality Control	1,342,650	1,470,137		1,566,386		1,715,445		1,690,619		1,749,755	
Source Compliance Monitoring	49,731	51,119		41,993		42,168		44,388		44,365	
Contribution to Reserve	8,023	8,258		8,582		8,921		9,275		9,555	
	1,400,404	1,529,514	9.2%	1,616,961	5.7%	1,766,534	9.3%	1,744,282	(1.3%)	1,803,675	3.4%
Engineering, Design & Construction											
Minor Capital Projects	369,598	423,152		461,455		490,330		519,495		527,171	
	369,598	423,152	14.5%	461,455	9.1%	490,330	6.3%	519,495	5.9%	527,171	1.5%
Operations and Maintenance											
Liquid Waste Residuals	2,130,221	2,231,951		2,449,817		2,502,096		2,533,690		2,796,620	
Maintenance	3,267,345	3,859,437		3,804,003		4,067,082		4,152,274		4,199,142	
SCADA Control Systems	41,202	42,375		43,732		44,164		45,377		46,713	
Wastewater Collection	900,625	1,022,126		1,080,888		1,162,322		1,227,191		1,286,588	
Wastewater Treatment	8,202,549	8,365,840		8,790,110		8,822,257		9,052,713		9,289,167	
Site Security Services	—	12,170		12,474		12,786		13,106		13,433	
Asset Management	195,952	182,270		188,425		193,734		199,199		204,818	
	14,737,894	15,716,169	6.6%	16,369,449	4.2%	16,804,441	2.7%	17,223,550	2.5%	17,836,481	3.6%
Administration and Allocated Programs											
Administration and Department Support	238,445	256,474		262,083		273,028		276,706		288,808	
Community Engagement and Communications	37,503	211,848		218,559		224,547		230,704		237,031	
Environmental Regulation and Enforcement	262,135	269,879		279,218		286,669		296,130		303,613	
Allocation of Project Delivery Cost	297,508	279,669	(6.0%)	278,308	(0.5%)	285,206	2.5%	292,487	2.6%	297,072	1.6%
Allocation of Centralized Support Costs	3,542,411	4,310,480		4,643,760		4,764,258		4,823,516		4,846,161	
	4,378,002	5,328,350	21.7%	5,681,928	6.6%	5,833,708	2.7%	5,919,543	1.5%	5,972,685	0.9%
Total Operating Programs	22,014,539	24,083,928	9.4%	25,249,631	4.8%	26,067,683	3.2%	26,611,811	2.1%	27,381,263	2.9%
Debt Service - Growth	3,299,553	4,325,524	31.1%	4,849,478	12.1%	5,369,697	10.7%	5,959,589	11.0%	6,879,280	15.4%
Debt Service - Non-Growth	12,142,773	12,949,573	6.6%	16,170,372	24.9%	18,841,007	16.5%	21,371,786	13.4%	24,045,454	12.5%
Contribution to Capital	18,758,767	19,233,145	2.5%	19,396,908	0.9%	19,580,003	0.9%	19,801,875	1.1%	19,972,352	0.9%
TOTAL EXPENDITURES	\$ 56,215,632	\$ 60,592,170	7.8%	\$ 65,666,389	8.4%	\$ 69,858,390	6.4%	\$ 73,745,061	5.6%	\$ 78,278,349	6.1%

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
LIQUID WASTE SERVICES
2027 — 2031 FINANCIAL PLAN
FRASER SEWERAGE AREA
2027 BUDGET

DRAFT

	2026 BUDGET	2027 BUDGET	% CHANGE	2028 PLAN	% CHANGE	2029 PLAN	% CHANGE	2030 PLAN	% CHANGE	2031 PLAN	% CHANGE
REVENUES											
Liquid Waste Services Levy	\$ 283,577,987	\$ 296,160,956	4.4%	\$ 319,601,712	7.9%	\$ 343,941,995	7.6%	\$ 394,492,878	14.7%	\$ 430,218,758	9.1%
User Fees	5,429,366	5,781,634		6,337,988		7,015,687		7,802,024		8,395,112	
Transfer from DCC Reserves	91,433,535	100,914,783		107,383,265		127,373,146		123,392,706		142,833,875	
Liquid Waste Industrial Charges	11,313,300	13,343,764		13,677,358		14,019,293		14,369,775		14,729,019	
Other External Revenues	1,465,170	1,125,252		891,302		892,831		894,358		895,888	
Transfer from Sustainability Innovation Fund Reserves	1,066,547	—		—		—		—		—	
Transfer from Reserves	2,055,632	7,169,684		21,042,209		31,066,012		37,534,503		40,361,467	
TOTAL REVENUES	\$ 396,341,537	\$ 424,496,073	7.1%	\$ 468,933,834	10.5%	\$ 524,308,964	11.8%	\$ 578,486,244	10.3%	\$ 637,434,119	10.2%
EXPENDITURES											
Operating Programs:											
Policy Planning and Analysis											
Contribution to Sustainability Innovation Fund Reserve	\$ 552,681	\$ 555,724		\$ 555,724		\$ 555,724		\$ 555,724		\$ 555,724	
Utility Analysis and Infrastructure	1,551,763	1,843,593		1,914,724		1,974,419		2,035,451		2,097,606	
Utility Policy and Planning	1,726,979	1,764,868		1,826,124		1,879,901		1,935,312		1,992,336	
Wastewater Research and Innovation	1,827,683	924,487		970,599		1,015,021		1,055,315		1,104,700	
Wastewater Facilities Planning	268,260	261,177		271,967		445,208		462,348		480,195	
	5,927,366	5,349,849	(9.7%)	5,539,138	3.5%	5,870,273	6.0%	6,044,150	3.0%	6,230,561	3.1%
Management Systems and Utility Services											
Annacis Research Centre	309,592	338,686		327,933		330,175		341,147		345,707	
Dispatch	98,317	100,761		103,653		106,520		109,473		112,509	
Corporate Climate Action and Energy Management	314,490	471,440		481,031		476,436		477,896		497,759	
Engineers in Training	395,524	398,291		414,800		426,863		437,374		450,165	
Management Systems Utility Services	598,274	661,814		676,978		694,670		712,727		731,118	
Records Management	110,199	114,219		118,366		121,825		125,387		129,053	
Utility Voice Radio	69,697	72,234		74,335		76,292		78,302		80,492	
	1,896,093	2,157,445	13.8%	2,197,096	1.8%	2,232,781	1.6%	2,282,306	2.2%	2,346,803	2.8%
Environmental Management and Quality Control											
Environmental Management and Quality Control	8,956,888	9,826,547		10,485,235		11,511,406		11,329,292		11,729,548	
Source Compliance Monitoring	345,442	356,027		292,468		293,686		309,148		308,989	
Contribution to Reserve	55,728	57,515		59,774		62,133		64,599		66,545	
	9,358,058	10,240,089	9.4%	10,837,477	5.8%	11,867,225	9.5%	11,703,039	(1.4%)	12,105,082	3.4%
Engineering, Design & Construction											
Minor Capital Projects	4,750,749	4,864,217		4,996,847		5,096,269		5,200,035		5,291,301	
	4,750,749	4,864,217	2.4%	4,996,847	2.7%	5,096,269	2.0%	5,200,035	2.0%	5,291,301	1.8%
Operations and Maintenance											
Liquid Waste Residuals	14,975,389	15,853,614		17,481,147		17,829,356		18,054,815		19,878,779	
Maintenance	23,102,709	23,338,530		23,829,945		24,616,737		25,628,493		26,538,090	
SCADA Control Systems	844,375	868,352		896,135		904,735		929,580		956,890	
Wastewater Collection	10,428,932	11,183,132		11,422,811		11,882,683		12,712,606		13,128,120	
Wastewater Treatment	36,392,255	39,146,747		41,205,029		40,428,368		43,122,549		43,773,880	
Site Security Services	—	84,758		86,878		89,049		91,275		93,557	
Asset Management	1,361,120	1,266,077		1,308,832		1,345,713		1,383,668		1,422,701	
	87,104,780	91,741,210	5.3%	96,230,777	4.9%	97,096,641	0.9%	101,922,986	5.0%	105,792,017	3.8%
Administration and Allocated Programs											
Administration and Department Support	1,658,834	1,731,909		1,769,788		1,843,689		1,868,529		1,950,251	
Community Engagement and Communications	260,502	1,475,455		1,522,194		1,563,898		1,606,781		1,650,851	
Environmental Regulation and Enforcement	1,745,263	1,796,820		1,859,000		1,908,604		1,971,594		2,021,418	
Allocation of Project Delivery Cost	3,220,936	3,298,015		3,281,974		3,363,329		3,449,180		3,503,242	
Allocation of Centralized Support Costs	24,954,602	30,555,068		32,376,514	6.0%	33,945,284		36,435,425		38,388,857	
	31,840,137	38,857,267	22.0%	40,809,470	5.0%	42,624,804	4.4%	45,331,509	6.4%	47,514,619	4.8%
Total Operating Programs	140,877,183	153,210,077	8.8%	160,610,805	4.8%	164,787,993	2.6%	179,280,383	4.7%	179,280,383	3.9%
Debt Service - Growth	111,192,909	118,941,969	7.0%	129,723,985	9.1%	143,213,221	10.4%	159,485,024	11.4%	179,196,256	12.4%
Debt Service - Non-Growth	17,955,569	25,468,080	41.8%	44,377,451	74.2%	64,349,205	45.0%	88,585,789	37.7%	113,766,224	28.4%
Contribution to Capital	126,315,876	126,875,947	0.4%	134,221,593	5.8%	151,958,545	13.2%	157,931,406	3.9%	165,191,256	4.6%
TOTAL EXPENDITURES	\$ 396,341,537	\$ 424,496,073	7.1%	\$ 468,933,834	10.5%	\$ 524,308,964	11.8%	\$ 578,486,244	10.3%	\$ 637,434,119	10.2%

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
LIQUID WASTE SERVICES
2027 — 2031 FINANCIAL PLAN
DRAINAGE
2027 BUDGET

DRAFT

	2026 BUDGET	2027 BUDGET	% CHANGE	2028 PLAN	% CHANGE	2029 PLAN	% CHANGE	2030 PLAN	% CHANGE	2031 PLAN	% CHANGE
REVENUES											
Liquid Waste Services Levy	\$ 3,431,252	\$ 3,345,700	(2.5%)	\$ 3,316,642	(0.9%)	\$ 3,377,601	1.8%	\$ 3,465,568	2.6%	\$ 3,590,509	3.6%
Transfer from Reserves	260,000	85,000		160,000		160,000		160,000		85,000	
TOTAL REVENUES	\$ 3,691,252	\$ 3,430,700	(7.1%)	\$ 3,476,642	1.3%	\$ 3,537,601	1.8%	\$ 3,625,568	2.5%	\$ 3,675,509	1.4%
EXPENDITURES											
Operating Programs:											
Policy Planning and Analysis											
Utility Analysis and Infrastructure	\$ 175,000	\$ —		\$ —		\$ —		\$ —		\$ —	
Utility Policy and Planning	163,824	166,744		169,774		172,274		174,852		177,504	
	338,824	166,744	(50.8%)	169,774	1.8%	172,274	1.5%	174,852	1.5%	177,504	1.5%
Management Systems and Utility Services											
Dispatch	994	951		978		1,006		1,032		1,062	
Corporate Climate Action and Energy Management	3,184	4,462		4,552		4,509		4,523		4,710	
Management Systems Utility Services	6,048	6,254		6,397		6,565		6,735		6,909	
Records Management	1,115	1,078		1,117		1,150		1,183		1,219	
	11,341	12,745	12.4%	13,044	2.3%	13,230	1.4%	13,473	1.8%	13,900	3.2%
Engineering, Design & Construction											
Minor Capital Projects	515,687	523,564		531,643		539,920		546,713		560,379	
	515,687	523,564	1.5%	531,643	1.5%	539,920	1.6%	546,713	1.3%	560,379	2.5%
Operations and Maintenance											
Maintenance	138,072	132,559		137,110		141,279		145,502		149,845	
SCADA Control Systems	28,601	29,414		30,356		30,656		31,501		32,425	
Urban Drainage	2,337,177	2,209,448		2,272,851		2,329,298		2,412,354		2,447,042	
	2,503,850	2,371,421	(5.3%)	2,440,317	2.9%	2,501,233	2.5%	2,589,357	3.5%	2,629,312	1.5%
Administration and Allocated Programs											
Administration and Department Support	16,768	16,366		16,723		17,423		17,658		18,431	
Allocation of Project Delivery Cost	3,261	6,838		6,805		6,973		7,151		7,263	
Allocation of Centralized Support Costs	301,521	333,022		298,336		286,548		276,364		268,720	
	321,550	356,226	10.8%	321,864	(9.6%)	310,944	(3.4%)	301,173	(3.1%)	294,414	(2.2%)
Total Operating Programs	3,691,252	3,430,700	(7.1%)	3,476,642	1.3%	3,537,601	1.8%	3,625,568	2.5%	3,675,509	1.4%
TOTAL EXPENDITURES	\$ 3,691,252	\$ 3,430,700	(7.1%)	\$ 3,476,642	1.3%	\$ 3,537,601	1.8%	\$ 3,625,568	2.5%	\$ 3,675,509	1.4%

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES

	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
CAPITAL EXPENDITURES											
Collections											
104th Ave PS and FM for Redirection to NLWWTP	Growth	Design	2026 - 2035	\$ 125,000,000	\$ 8,000,000	\$ 1,450,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 13,450,000
8th Avenue Interceptor Air Treatment Facilities	Upgrade	Design	2017 - 2033	14,150,000	1,450,000	50,000	450,000	600,000	2,600,000	3,000,000	6,700,000
Baynes Road Pump Station Redirection	Maintenance	Not Started	2029 - 2035	50,000,000	—	—	—	100,000	1,100,000	2,000,000	3,200,000
Big Bend Forcemain - Gate Replacement	Maintenance	Construction	2017 - 2030	2,700,000	2,700,000	150,000	1,700,000	300,000	—	—	2,150,000
Burnaby Lake North Interceptor Winston Section	Growth	Construction	2018 - 2027	114,500,000	114,500,000	600,000	2,000,000	550,000	—	—	3,150,000
Burnaby South Slope Interceptor	Growth	Not Started	2022 - 2034	22,700,000	300,000	—	50,000	250,000	300,000	1,350,000	1,950,000
Cloverdale Pump Station Capacity Upgrade	Growth	Construction	2017 - 2034	88,150,000	11,650,000	650,000	1,100,000	1,300,000	2,100,000	5,550,000	10,700,000
Cloverdale Trunk Sewer Capacity Upgrade	Growth	Design	2022 - 2032	39,000,000	4,950,000	400,000	700,000	2,000,000	1,400,000	9,000,000	13,500,000
Columbia Forcemain (CLT) Rehabilitation	Maintenance	Construction	2025 - 2026	16,000,000	16,000,000	50,000	—	—	—	—	50,000
Combined Sewer Overflow Sampling Station Enhancements	Maintenance	Construction	2019 - 2028	4,000,000	4,000,000	575,000	711,000	—	—	—	1,286,000
Crescent Beach FM - Replacement	Maintenance	Construction	2017 - 2026	34,350,000	34,350,000	20,000	20,000	20,000	—	—	60,000
Eagle Creek (Lower Section) Channel Restoration	Resilience	Construction	2025 - 2026	750,000	750,000	50,000	700,000	—	—	—	750,000
EMQC-Chemistry Laboratory	Upgrade	Construction	2023 - 2028	17,200,000	17,200,000	450,000	6,150,000	8,250,000	1,150,000	—	16,000,000
Flood Protection for Langley Pump Station	Maintenance	Not Started	2028 - 2030	5,050,000	—	—	350,000	250,000	4,440,000	—	5,040,000
Fraser Sewerage Area Integrated Resource Recovery (IRR) Study	Opportunity	Design	2020 - 2027	700,000	700,000	150,000	100,000	—	—	—	250,000
FSA Flow Metering Program	Maintenance	Construction	2018 - 2026	4,300,000	4,300,000	290,035	625,000	—	—	—	915,035
FSA River Crossing Scour Protection Program - Phase 1	Maintenance	Construction	2023 - 2026	4,450,000	4,450,000	480,000	1,400,000	500,000	—	—	2,380,000
FSA Sewer Relocations and Protections	Maintenance	Construction	2021 - 2030	3,100,000	3,100,000	1,000,000	350,000	400,000	450,000	—	2,200,000
FSA Statutory Right of Way Acquisitions Phase 1	Maintenance	Design	2022 - 2026	25,450,000	25,450,000	1,400,000	—	—	—	—	1,400,000
Gilbert/Brighthouse Trunk Pressure Sewer	Maintenance	Multiple	2010 - 2030	289,750,000	289,750,000	3,970,000	8,450,000	1,250,000	8,000,000	2,000,000	23,670,000

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**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES**

	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
Glenbrook Combined Trunk Kingsway Sanitary Section	Growth	Construction	2018 - 2027	9,250,000	9,250,000	995,000	948,000	—	—	—	1,943,000
Glenbrook Combined Trunk Sewer Separation	Upgrade	Design	2026 - 2035	250,000,000	4,700,000	1,450,000	2,450,000	2,450,000	3,450,000	3,500,000	13,300,000
Glenbrook CSO Gate Replacement	Maintenance	Construction	2022 - 2026	7,100,000	7,100,000	50,000	—	—	—	—	50,000
Gleneagles Forcemain Replacement	Maintenance	Construction	2017 - 2027	27,600,000	27,600,000	10,350,000	1,938,000	2,000,000	—	—	14,288,000
Gleneagles Pump Stations Improvements	Maintenance	Design	2018 - 2032	56,250,000	29,800,000	770,000	1,420,000	3,550,000	13,510,000	10,456,000	29,706,000
Goulet and Noble Sediment Basin Improvements	Maintenance	Construction	2027 - 2028	5,000,000	5,000,000	2,500,000	2,500,000	—	—	—	5,000,000
Harbour PS Air Treatment Facilities	Upgrade	Not Started	2028 - 2034	6,400,000	—	—	150,000	350,000	300,000	1,750,000	2,550,000
Harbour Pump Station Discharge Header Repair and Valve Replacements	Maintenance	Construction	2022 - 2026	5,350,000	5,350,000	50,000	—	—	—	—	50,000
Harbour Pump Station Power Distribution Equipment Replacement	Maintenance	Construction	2021 - 2027	5,350,000	5,350,000	1,389,169	321,035	—	—	—	1,710,204
Harbour Sewerage Pump Station - Suction Piping Replacement	Maintenance	Construction	2024 - 2029	5,850,000	5,850,000	2,168,916	2,013,916	—	1,148,349	—	5,331,181
Highbury Interceptor Diversion Junction Chamber Wall Rehabilitation	Maintenance	Construction	2023 - 2028	7,400,000	7,400,000	480,000	4,632,000	1,550,000	—	—	6,662,000
Highbury Street Sanitary Trunk Sewer Rehabilitation	Maintenance	Not Started	2028 - 2029	2,300,000	—	—	300,000	2,000,000	—	—	2,300,000
Hollyburn Interceptor - Kew Road Section	Maintenance	Not Started	2027 - 2033	31,000,000	—	—	50,000	250,000	1,700,000	2,050,000	4,050,000
Hudson Forcemain Rehabilitation Phase 2/3	Maintenance	Construction	2025 - 2026	4,150,000	3,150,000	600,000	1,980,000	1,000,000	—	—	3,580,000
Jervis Pump Station 25kV Voltage Conversion	Maintenance	Construction	2021 - 2026	1,300,000	1,300,000	700,000	—	—	—	—	700,000
Jervis Sewerage Pump Station - Suction Piping Replacement	Maintenance	Construction	2025 - 2029	6,050,000	6,050,000	2,314,135	2,159,135	—	1,235,481	—	5,708,751
Kent Pump Station High Voltage Switchgear Replacement	Maintenance	Construction	2022 - 2027	4,200,000	4,200,000	1,328,720	—	—	—	—	1,328,720
Lozells Sewer Protection Works	Maintenance	Construction	2027	600,000	600,000	600,000	—	—	—	—	600,000
LWS Pump Station Programmable Logic Controller Replacements	Opportunity	Multiple	2025 - 2029	3,000,000	1,400,000	400,000	465,000	695,000	1,165,000	—	2,725,000
Marshend Pump Station	Growth	Construction	2017 - 2029	40,750,000	40,750,000	6,150,000	17,650,000	7,250,000	4,000,000	—	35,050,000

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES

	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
New West Interceptor - Annacis Section 2	Maintenance	Construction	2017 - 2030	51,050,000	51,050,000	2,329,713	14,381,957	4,190,978	4,600,000	5,000,000	30,502,648
New Westminster Interceptor Repair Columbia St. Section	Maintenance	Construction	2017 - 2028	41,450,000	41,450,000	3,825,796	3,500,000	—	—	—	7,325,796
New Westminster Interceptor West Branch and Columbia Extension Rehabilitation	Maintenance	Construction	2022 - 2030	121,700,000	121,700,000	1,284,810	23,775,300	47,200,600	23,363,000	21,640,000	117,263,710
North Road Trunk Sewer	Growth	Construction	2017 - 2028	28,600,000	28,600,000	4,946,000	2,414,500	1,000,000	500,000	—	8,860,500
North Surrey Interceptor - Port Mann Section - Odour Control	Upgrade	Construction	2017 - 2029	29,600,000	27,600,000	550,000	2,300,000	4,000,000	4,000,000	500,000	11,350,000
North Surrey Interceptor Improvements	Maintenance	Multiple	2024 - 2040	386,550,000	175,350,000	4,856,387	19,675,000	23,012,431	43,470,000	66,480,000	157,493,818
North Surrey Interceptor Twinning	Growth	Not Started	2027 - 2040	215,800,000	—	—	—	—	500,000	1,000,000	1,500,000
NSA Flow Metering Program	Maintenance	Construction	2019 - 2027	3,100,000	3,100,000	423,164	—	—	—	—	423,164
NSA Scour Protection Upgrades	Maintenance	Construction	2022 - 2027	7,750,000	7,750,000	1,000,000	1,000,000	30,000	30,000	30,000	2,090,000
NSI SSO Storage	Upgrade	Construction	2020 - 2031	196,950,000	196,950,000	17,289,528	32,424,464	51,310,000	51,929,507	20,200,000	173,153,499
NSSA Sewer Relocations and Protections	Maintenance	Construction	2025 - 2027	450,000	450,000	75,000	—	—	—	—	75,000
NVI Lynn Branch Siphon – SSO Treatment	Upgrade	Design	2026 - 2031	15,500,000	1,100,000	—	749,999	2,700,000	2,850,000	5,400,000	11,699,999
NWP Dip Investigation and Repair	Maintenance	Construction	2025 - 2026	4,500,000	4,500,000	50,000	—	—	—	—	50,000
Ocean Park Trunk - Crescent Beach PS Section Replacement	Maintenance	Design	2026 - 2030	22,250,000	1,150,000	50,000	750,000	1,050,000	1,550,000	8,440,000	11,840,000
Ocean Park Trunk Manholes Lining	Maintenance	Construction	2025 - 2026	1,100,000	1,100,000	50,000	—	—	—	—	50,000
Port Coquitlam Pump Station Overflow	Resilience	Design	2027 - 2029	4,250,000	250,000	210,000	1,000,000	3,000,000	—	—	4,210,000
Port Coquitlam Pump Station Refurbishment	Maintenance	Design	2021 - 2030	152,050,000	13,850,000	2,150,000	2,150,000	2,150,000	14,976,667	65,560,000	86,986,667
Port Moody Forcemain Replacement	Maintenance	Design	2026 - 2031	30,500,000	1,500,000	50,000	1,950,000	3,500,000	1,500,000	11,500,000	18,500,000
Port Moody Pump Station Capacity Upgrade	Growth	Design	2017 - 2030	23,700,000	2,250,000	600,000	880,000	300,000	1,150,000	10,000,000	12,930,000
Port Moody South Interceptor Capacity Upgrade	Growth	Not Started	2027 - 2030	3,350,000	—	—	150,000	150,000	2,050,000	1,000,000	3,350,000
Port Moody Storm Drain Rehabilitation	Maintenance	Construction	2024 - 2026	2,850,000	2,850,000	450,000	—	—	—	—	450,000
Production Way Operation Centre	Upgrade	Multiple	2023 - 2029	54,150,000	54,150,000	2,411,001	8,614,000	15,279,999	25,165,000	1,080,000	52,550,000
Relocation and Protection of North Surrey Interceptor – CN Section West	Maintenance	Construction	2027 - 2028	500,000	500,000	500,000	—	—	—	—	500,000

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES

	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
Rosemary Heights Pressure Sewer Capacity Upgrade	Growth	Not Started	2027 - 2032	10,750,000	–	–	350,000	500,000	700,000	2,500,000	4,050,000
Royal Ave PS Rehabilitation	Maintenance	Construction	2017 - 2026	15,250,000	15,250,000	50,000	–	–	–	–	50,000
Sapperton Pump Station	Growth	Construction	2017 - 2028	105,100,000	105,100,000	550,000	2,198,000	5,250,000	4,550,000	–	12,548,000
Sapperton Pump Station Emergency Backup Power	Resilience	Construction	2022 - 2028	5,000,000	5,000,000	1,250,000	1,650,000	500,000	400,000	–	3,800,000
Sewer Heat Projects	Opportunity	Construction	2027 - 2031	71,500,000	71,500,000	250,000	10,150,000	19,400,000	25,475,000	16,075,000	71,350,000
South Surrey Interceptor & North Surrey Interceptor - Fraser River Crossing	Growth	Design	2026 - 2035	632,000,000	8,500,000	1,350,000	5,450,000	5,050,000	10,450,000	66,000,000	88,300,000
South Surrey Interceptor Johnston Section	Growth	Construction	2017 - 2027	98,300,000	98,300,000	515,000	–	–	–	–	515,000
South Surrey Interceptor Rehabilitation	Maintenance	Multiple	2023 - 2031	87,350,000	6,800,000	1,405,108	23,736,217	23,681,057	15,626,597	10,330,000	74,778,979
Spanish Banks PS HV Switchgear Replacement	Maintenance	Design	2026 - 2029	4,850,000	850,000	460,000	1,750,000	2,500,000	–	–	4,710,000
SSI Delta - Air Management Facility Construction	Upgrade	Construction	2017 - 2027	17,950,000	17,950,000	427,512	–	–	–	–	427,512
SSI Influent Control Chamber Repair and Replace Gates	Maintenance	Construction	2017 - 2027	1,300,000	1,300,000	510,000	400,000	–	–	–	910,000
Still Creek Culvert Rehabilitation - Gilmore section	Maintenance	Construction	2025 - 2028	2,150,000	2,150,000	338,001	1,468,999	–	–	–	1,807,000
Stoney Creek Sanitary Trunk	Growth	Construction	2022 - 2030	156,900,000	156,900,000	8,721,715	57,068,404	45,950,318	17,288,213	14,418,375	143,447,025
Surrey Corrosion Control Facility Replacement	Maintenance	Construction	2019 - 2028	11,250,000	11,250,000	851,219	5,160,510	3,000,000	–	–	9,011,729
VSA Emergency Backup Power	Resilience	Construction	2017 - 2027	29,300,000	29,300,000	1,000,000	–	–	–	–	1,000,000
VSA Flow Metering Program	Maintenance	Construction	2018 - 2028	8,700,000	8,700,000	1,350,000	1,600,000	1,100,000	1,200,000	700,000	5,950,000
VSA Grit Chamber Access Improvements	Maintenance	Construction	2024 - 2027	3,550,000	3,550,000	2,573,063	732,000	–	–	–	3,305,063
VSA Sewer Relocations and Protections	Maintenance	Construction	2019 - 2029	24,050,000	24,050,000	100,001	–	49,999	400,000	2,000,000	2,550,000
VSA Statutory Right of Way Acquisitions Phase 1	Maintenance	Construction	2025 - 2026	15,900,000	15,900,000	3,500,000	3,500,000	4,000,000	–	–	11,000,000
Westridge FM Replacement	Maintenance	Construction	2017 - 2028	13,900,000	13,900,000	1,441,550	1,775,000	–	–	–	3,216,550
Westridge Pump Stations 1 & 2 Refurbishment	Maintenance	Construction	2017 - 2029	44,250,000	44,250,000	7,030,000	8,410,000	8,050,000	8,510,000	–	32,000,000
White Rock Forcemain Rehabilitation	Maintenance	Construction	2021 - 2029	14,850,000	14,850,000	1,285,702	5,485,702	5,714,089	1,039,585	–	13,525,078
White Rock Pump Station Upgrades	Growth	Design	2026 - 2033	15,000,000	2,000,000	500,000	1,350,000	800,000	1,200,000	950,000	4,800,000
Total Collections				\$ 4,127,050,000	\$ 2,103,000,000	\$ 122,591,245	\$ 314,783,138	\$ 324,284,471	\$ 315,522,399	\$ 374,459,375	\$ 1,451,640,628

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES

	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
Treatment Plants											
AIWWTP Ammonia Removal – Sidestream	Upgrade	Design	2025 - 2038	\$ 126,950,000	\$ 22,800,000	\$ 1,200,000	\$ 1,500,000	\$ 3,440,000	\$ 5,150,000	\$ 3,530,000	\$ 14,820,000
AIWWTP Bar Screen #1 Refurbishment	Maintenance	Construction	2025 - 2027	2,550,000	2,550,000	988,500	–	–	–	–	988,500
AIWWTP Centrifuge Schwing HPU Replacement	Maintenance	Construction	2024 - 2026	1,350,000	1,350,000	100,000	–	–	–	–	100,000
AIWWTP Cogeneration Backup Power	Resilience	Construction	2017 - 2026	81,100,000	81,100,000	125,000	–	–	–	–	125,000
AIWWTP DAF Polymer System Upgrade	Maintenance	Design	2027 - 2031	8,050,000	1,550,000	100,000	590,000	3,480,000	1,670,000	2,160,000	8,000,000
AIWWTP Digesters No. 9 and 10 (formerly Digester No. 5)*	Growth	Design	2025 - 2034	469,700,000	6,900,000	3,000,000	14,000,000	40,400,000	59,300,000	106,000,000	222,700,000
AIWWTP Electrical Distribution System Protection Control and Monitoring	Upgrade	Construction	2019 - 2027	2,650,000	2,650,000	75,000	250,000	–	–	–	325,000
AIWWTP Hydrothermal Processing Pilot	Opportunity	Construction	2018 - 2027	49,000,000	49,000,000	8,909,000	2,798,000	300,000	–	–	12,007,000
AIWWTP ICS Replacement Program	Maintenance	Construction	2022 - 2031	14,350,000	14,350,000	4,000,000	2,750,000	2,500,000	1,050,000	–	10,300,000
AIWWTP ICS Replacement Program Phase 2	Maintenance	Not Started	2029 - 2033	15,000,000	–	–	–	575,000	2,000,000	2,600,000	5,175,000
AIWWTP Influent System Remediation	Maintenance	Construction	2025 - 2038	129,750,000	129,750,000	1,487,501	19,701,249	21,100,000	2,900,000	7,850,000	53,038,750
AIWWTP IPS Pump Building Roof Replacement Phase 2	Maintenance	Construction	2024 - 2026	1,150,000	1,150,000	50,000	–	–	–	–	50,000
AIWWTP Lubrication Storage Facility Conversion	Maintenance	Construction	2024 - 2027	2,500,000	2,500,000	190,000	1,800,000	400,000	–	–	2,390,000
AIWWTP O&M Building Refurbishment	Maintenance	Construction	2026 - 2030	9,600,000	9,600,000	600,000	3,450,000	2,150,000	1,700,000	1,700,000	9,600,000
AIWWTP Outfall Repair	Maintenance	Design	2025 - 2029	10,700,000	1,000,000	50,000	500,000	500,000	4,800,000	4,850,000	10,700,000
AIWWTP Process Waste Drain Line Refurbishment	Maintenance	Construction	2025 - 2026	3,150,000	3,150,000	200,000	–	–	–	–	200,000
AIWWTP Scum Pump Replacement	Maintenance	Construction	2025 - 2028	1,250,000	1,250,000	500,000	500,000	–	–	–	1,000,000
AIWWTP Secondary Clarifier Corrosion Repair	Maintenance	Construction	2017 - 2028	36,300,000	36,300,000	450,000	400,000	–	–	–	850,000
AIWWTP Sludge Control Building Electrical Room HVAC Upgrade	Maintenance	Construction	2023 - 2027	2,100,000	2,100,000	1,005,000	–	–	–	–	1,005,000
AIWWTP Stage 5 Expansion*	Growth	Multiple	2011 - 2034	1,340,400,000	1,340,400,000	49,500,000	102,750,000	86,800,000	63,200,000	94,600,000	396,850,000
AIWWTP Stage 5 Expansion - Optimization Works*	Growth	Construction	2025 - 2028	18,600,000	18,600,000	4,500,000	5,000,000	3,500,000	3,850,000	–	16,850,000
AIWWTP TF Pump 5 VFD Upgrade	Resilience	Construction	2026 - 2031	1,900,000	1,900,000	250,000	400,000	850,000	250,000	100,000	1,850,000
AIWWTP Trickling Filter Media & Distributor Arms & Ducting Replacement	Maintenance	Construction	2018 - 2026	90,700,000	90,700,000	50,000	–	–	–	–	50,000

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CAPITAL PORTFOLIO
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	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
AIWWTP UPS Condition Monitoring System	Resilience	Construction	2026 - 2030	550,000	550,000	50,000	100,000	100,000	150,000	150,000	550,000
Annacis Influent System Surge Control Refurbishment	Growth	Construction	2017 - 2028	22,000,000	22,000,000	2,000,000	1,900,000	—	—	—	3,900,000
Annacis Outfall System*	Growth	Construction	2015 - 2027	356,050,000	356,050,000	22,697,721	—	—	—	—	22,697,721
AREC Commodities Line Improvements Project	Maintenance	Construction	2025 - 2029	7,000,000	7,000,000	1,650,000	2,850,000	1,450,000	850,000	—	6,800,000
IIWWTP Biosolids Dewatering Facility	Upgrade	Construction	2017 - 2027	66,300,000	66,300,000	409,000	200,000	120,000	—	—	729,000
IIWWTP ICS IPS Control Replacement	Maintenance	Construction	2020 - 2028	1,750,000	1,750,000	300,000	300,000	—	—	—	600,000
IIWWTP ICS Migration Program	Maintenance	Design	2025 - 2032	12,000,000	4,000,000	150,000	1,000,000	2,750,000	2,750,000	2,750,000	9,400,000
IIWWTP ICS Replacement Program	Maintenance	Construction	2022 - 2026	750,000	750,000	50,000	—	—	—	—	50,000
IIWWTP IPS Drive Remediation	Maintenance	Construction	2022 - 2029	3,300,000	3,300,000	570,000	450,000	410,000	745,000	—	2,175,000
IIWWTP Medium Pressure Sludge Gas Blowers 3 & 4 Power Supply	Resilience	Construction	2025 - 2028	950,000	950,000	215,000	145,000	170,000	—	—	530,000
IIWWTP Outfall Refurbishment*	Maintenance	Design	2022 - 2031	235,000,000	20,000,000	3,350,000	42,000,000	53,000,000	87,000,000	41,000,000	226,350,000
IIWWTP PA Tanks Improvement	Maintenance	Construction	2024 - 2030	7,500,000	7,500,000	500,001	49,999	1,625,000	1,625,000	1,625,000	5,425,000
IIWWTP PA-Sed Tank & Gallery Wall Refurbishment	Maintenance	Construction	2024 - 2027	950,000	950,000	50,000	—	—	—	—	50,000
IIWWTP Replacement of CoGen Control System	Maintenance	Construction	2017 - 2026	2,500,000	2,500,000	100,000	—	—	—	—	100,000
IIWWTP Solids Handling Refurbishment	Maintenance	Construction	2017 - 2026	63,850,000	63,850,000	2,900,000	—	—	—	—	2,900,000
IIWWTP Surge Mitigation	Maintenance	Construction	2026 - 2029	2,000,000	2,000,000	450,000	650,000	650,000	250,000	—	2,000,000
IIWWTP Waste Gas Burner Redundancy	Maintenance	Construction	2025 - 2027	1,250,000	1,250,000	400,000	—	—	—	—	400,000
Iona Island Wastewater Treatment Plant*	Upgrade	Construction	2018 - 2040	6,000,150,000	1,060,150,000	124,619,116	175,574,217	245,915,000	430,254,692	480,005,613	1,456,368,638
LIWWTP Effluent Heat Recovery Project	Opportunity	Construction	2023 - 2028	12,650,000	12,650,000	8,000,000	1,200,000	550,000	—	—	9,750,000
LIWWTP Gravity Thickener Odour Control System	Upgrade	Not Started	2030 - 2032	550,000	—	—	—	—	150,000	300,000	450,000
LIWWTP Gravity Thickener Redundancy	Maintenance	Construction	2023 - 2032	67,000,000	67,000,000	1,043,524	5,100,000	20,000,000	21,000,000	18,000,000	65,143,524
LIWWTP Ground Fault Detection System Replacement	Maintenance	Construction	2022 - 2029	2,050,000	2,050,000	665,000	250,000	100,000	—	—	1,015,000
LIWWTP High Efficiency Boiler	Maintenance	Construction	2019 - 2028	1,300,000	1,300,000	410,000	330,000	—	—	—	740,000
LIWWTP ICS Electrical Distribution System Migration Program	Maintenance	Design	2025 - 2030	7,000,000	2,250,000	600,000	2,000,000	2,250,000	1,400,000	—	6,250,000
LIWWTP ICS Replacement Program	Maintenance	Construction	2020 - 2027	6,750,000	6,750,000	1,150,000	—	—	—	—	1,150,000
LIWWTP New Influent Conduit and Headworks	Resilience	Design	2026 - 2032	80,600,000	1,250,000	125,000	500,000	3,755,000	3,155,000	4,700,000	12,235,000
LIWWTP PA Tank Odour Control System	Upgrade	Construction	2025 - 2029	4,750,000	4,750,000	1,600,000	1,800,000	1,150,000	—	—	4,550,000

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES

	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES
LIWWTP PA-Sed Tank Refurbishment	Maintenance	Construction	2019 - 2027	3,200,000	3,200,000	710,000	610,000	110,000	–	–	1,430,000
LIWWTP Pilot Digestion Optimization Facility	Opportunity	Construction	2018 - 2028	7,200,000	7,200,000	1,103,000	620,000	–	–	–	1,723,000
LIWWTP Power Distribution Center Replacements	Maintenance	Design	2025 - 2032	7,250,000	750,000	300,000	335,000	2,000,000	2,000,000	1,500,000	6,135,000
LIWWTP Power Reliability	Resilience	Construction	2017 - 2028	16,000,000	16,000,000	4,900,000	2,956,526	1,464,461	–	–	9,320,987
LIWWTP SCL Refurbishment	Maintenance	Construction	2024 - 2032	41,500,000	41,500,000	982,968	9,649,999	9,650,000	19,300,000	–	39,582,967
LIWWTP Tricking Filter Refurbishment	Maintenance	Construction	2023 - 2034	68,550,000	68,550,000	8,550,000	8,550,000	10,450,000	100,000	–	27,650,000
NLWWTP Alum Dosing System Relocation and Upgrades	Resilience	Construction	2027 - 2029	1,900,000	1,900,000	1,400,000	370,000	100,000	–	–	1,870,000
NLWWTP Hydraulic Improvements	Resilience	Construction	2027 - 2030	5,000,000	5,000,000	950,000	2,750,000	1,100,000	200,000	–	5,000,000
NLWWTP Standby Diesel Generator	Resilience	Construction	2024 - 2026	950,000	950,000	150,000	50,000	–	–	–	200,000
North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning*	Upgrade	Construction	2014 - 2030	3,854,950,000	3,854,950,000	761,232,233	673,022,809	520,120,013	206,372,304	66,596,037	2,227,343,396
Northwest Langley Wastewater Treatment Program*	Growth	Multiple	2018 - 2036	2,281,200,000	2,281,200,000	71,207,705	102,018,640	143,628,279	235,804,186	319,886,009	872,544,819
Regional Biosolids Dryer – AIWWTP*	Opportunity	Design	2025 - 2035	641,500,000	51,250,000	3,000,000	4,600,000	12,200,000	69,200,000	90,000,000	179,000,000
WWTPs Electrical System Studies & Upgrades	Resilience	Construction	2021 - 2032	7,150,000	3,300,000	200,000	500,000	850,000	1,275,000	900,000	3,725,000
Total Treatment Plants				\$16,321,650,000	\$ 9,875,250,000	\$ 1,106,070,269	\$ 1,198,821,439	\$ 1,201,662,753	\$ 1,229,451,182	\$ 1,250,802,659	\$ 5,986,808,302
TOTAL CAPITAL EXPENDITURES				\$20,448,700,000	\$11,978,250,000	\$ 1,228,661,514	\$ 1,513,604,577	\$ 1,525,947,224	\$ 1,544,973,581	\$ 1,625,262,034	\$ 7,438,448,930

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GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES

	PRIMARY DRIVER	ACTIVE PHASE	TIMELINE (START YR. - END YR.)	PROJECT ESTIMATE	PROJECT ESTIMATE TO ACTIVE PHASE	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	
CAPITAL FUNDING												
	New External Borrowing funded by Levy				\$ 7,166,445,334	720,278,225	877,642,436	888,352,127	1,073,426,676	1,034,652,790	4,594,352,254	
	New Borrowing funded by DCC				819,195,560	110,265,982	153,651,018	110,953,327	37,637,985	96,209,100	508,717,412	
	Direct DCC Application				1,084,656,723	47,676,022	111,169,431	128,841,321	157,110,020	228,771,018	673,567,812	
	Contribution to Capital from LWS Levy				1,514,831,280	155,901,830	165,598,575	198,675,937	205,064,831	215,463,447	940,704,620	
	Reserves				521,191,796	108,602,700	104,982,760	74,351,794	28,988,212	6,732,711	323,658,177	
	External Funding - Interagency				871,929,307	85,936,755	100,560,357	124,772,718	42,745,857	43,432,968	397,448,655	
	Total				\$11,978,250,000	\$ 1,228,661,514	\$ 1,513,604,577	\$ 1,525,947,224	\$ 1,544,973,581	\$ 1,625,262,034	\$ 7,438,448,930	
SUMMARY BY DRIVER												
	Growth			6,216,800,000	\$ 4,616,200,000	180,333,141	320,977,544	347,678,597	411,342,399	635,254,384	1,895,586,065	
	Maintenance			2,552,750,000	1,687,450,000	103,877,983	255,937,018	277,549,154	298,989,679	292,221,000	1,228,574,834	
	Resilience			235,400,000	148,200,000	10,875,000	11,121,526	11,889,461	5,430,000	5,850,000	45,165,987	
	Upgrade			10,658,200,000	5,332,700,000	911,763,390	905,635,489	855,685,012	733,371,503	585,861,650	3,992,317,044	
	Opportunity			785,550,000	193,700,000	21,812,000	19,933,000	33,145,000	95,840,000	106,075,000	276,805,000	
	Total				\$20,448,700,000	\$11,978,250,000	\$ 1,228,661,514	\$ 1,513,604,577	\$ 1,525,947,224	\$ 1,544,973,581	\$ 1,625,262,034	\$ 7,438,448,930

* Project is part of Metro Vancouver's formal stage gate framework. Detailed project report will be brought forward as part of the stage gate review process.

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LIQUID WASTE SERVICES

Engineering, Design and Construction

Description of Services

Liquid Waste Services provides wastewater collection and treatment services to the region through the Liquid Waste function under the authority of the Greater Vancouver Sewerage and Drainage District (GVS&DD). The Engineering, Design and Construction (EDC) Division is responsible for the delivery of the core major and minor capital projects, including trunk sewers, pump stations, SSO storage and wastewater treatment facilities identified in the GVS&DD long range plan and minor operating projects.

Strategic Directions and High-Level Goals Supported

Board Strategic Plan

- Ensure that our critical regional infrastructure is sufficiently maintained or replaced to meet current and future service needs, and is resilient to impacts from seismic events, wildfires, power failures, and natural disasters.
- Ensure that our services and infrastructure are able to meet the needs of a growing population.
- Ensure that all services and infrastructure anticipate and meet regulatory requirements, and that the organization is responsive to legislative change.
- Deliver utility and regional services in a way that ensures affordability for residents and long-term financial sustainability for the organization, using sound fiscal policies that balance the organization's long-term financial health while maintaining affordability for regional ratepayers.
- Proactively work to respond to the climate emergency by preparing for the impacts of climate change and accelerating reductions in greenhouse gas emissions.
- Continue to make investments and adaptations in service areas to ensure that our communities and organizations can prepare, avoid, absorb, recover, and adapt to the effects of shocks and stresses in an efficient manner.

Integrated Liquid Waste and Resource Management Plan

- Goal 1 - Protect public health and the environment
- Goal 2 - Use liquid waste as a resource
- Goal 3 - Effective, affordable and collaborative management

Liquid Waste Services - Engineering, Design and Construction
Work Plan 2027

Performance Indicators ¹

Indicator	Historical and/or Industry Benchmark	Current Performance ²	2027 Performance Objective
Percent of Capital Program Expenditures Achieved (Projects >\$90M) (8 Projects – \$59M)	3-year average: 87% 2024: 121% 2023: 81% 2022: 59%	15%	95%
Percent of Capital Program Expenditures Achieved (Projects \$20M - \$90M) (30 Projects – \$87M)	3-year average: 91% 2024: 133% 2023: 85% 2022: 54%	12%	90%
Percent of Capital Program Expenditures Achieved (Projects \$5M - \$20M) (49 Projects – \$77M)	3-year average: 31% 2024: 49% 2023: 20% 2022: 25%	7%	75%
Percent of Capital Program Expenditures Achieved Projects < \$5M (56 Projects – \$29M)	3-year average: 34% 2024: 33% 2023: 32% 2022: 36%	14%	75%
Percent of Minor Capital Program Expenditures (Total Budget - \$10M)	3-year average: 92% 2024: 90% 2023: 109% 2022: 78%	40%	90%

1. The Performance Indicators include projects being completed by other LWS divisions, such as utility relocates and Industrial Control System upgrades, but excludes projects being completed by the Project Delivery department
2. Current Performance is based upon Actuals for year-to-date end of May, and so is not indicative of expected year end performance

2027 Key Actions
Process and Procedural Activities

- Complete construction of the first major linear sewer project using in-house construction crews based on an in-house design (Stoney Creek)
- Increase the amount of work being designed in-house, including development of a support structure and appropriate quality assurance protocols
- Explore new to LWS ways of delivering capital works through Progressive Design Build and Construction Manager at Risk
- Continue to support the Project Management Office's continuous improvement activities in the area of project management
- Develop and implement a framework for engaging with the BC Archaeology Branch to expedite and streamline permitting processes

Liquid Waste Services - Engineering, Design and Construction
Work Plan 2027

- Continue to lead the engagement with member municipalities around upcoming capital works with New Westminster, Burnaby, Surrey and Richmond, and participate in similar endeavors led by others
- Develop and implement a framework for engaging with the contracting and consulting communities around upcoming work
- Refine the consultant performance management, assessment and reporting system
- Initiate construction of the:
 - LIWWTP Trickling Filter Rehabilitation
 - New Westminster West Branch Rehabilitation
 - White Rock Forcemain Replacement
 - North Surrey Interceptor relocations
 - Production Way Operations Centre site works
 - North Road Trunk Sewer – Railway Crossing
 - Westridge PS #2 and Forcemain
 - LIWWTP Effluent Heat Recovery
 - North Surrey Interceptor Manson Road Section Twinning
 - LIWWTP Power Reliability – Standby Diesel Generator and Building
 - AIWWTP Three Standby Diesel Generators Re-commissioning
 - AIWWTP Bar Screen Replacement
 - Glen Eagles Forcemain No. 5 Replacement
 - Marshend Pump Station Capacity Upgrade
- Complete Construction of the
 - Gilbert Trunk Sewer Twinning
 - Stoney Creek Sanitary Trunk Sewer – Coquitlam Section
 - South Surrey Interceptor Twinning
 - VSA Backup Power – Jervis Pump Station
 - Glen Eagles Forcemain No. 3 and 4 Replacement
 - Glen Eagles PS #4 Rehabilitation
 - Royal Avenue Pump Station Refurbishment
 - Columbia Forcemain Relining
 - AIWWTP Hydrothermal Liquefaction (Fabrication of Inside Battery Limits Unit)
 - AIWWTP Trickling Filter Refurbishments
 - IIWWTP PA and Sed Tank Refurbishment – Phase 1
 - Port Moody Storm Drain Rehabilitation
 - SSI Delta Section – Air Management Facility
 - Grit Chamber Access Improvements Spanish Banks Grit Chamber
 - Cloverdale Pump Station Capacity Upgrade - Stage 1



LIQUID WASTE SERVICES

Environmental Management & Quality Control

Description of Services

This business area is responsible for management of environmental programs and initiatives for GVS&DD, analytical services for liquid waste, water and solid waste regulatory, quality control, source control and process control purposes, and federal and provincial regulatory reporting of environmental and wastewater quality and treatment. The work includes environmental investigations, laboratory analyses, modeling, forecasting, simulations, monitoring, risk assessments, support for management of stormwater and urban drainage, development of an Environmental Management System for Liquid Waste Services, implementation of selected source control programs, and liaison with senior governments, academia and environmental stakeholders.

Strategic Directions and High-Level Goals Supported

Board Strategic Plan:

- Enhance the management of the liquid waste system with a commitment to innovative approaches to protect the health of the public and the environment.
- Ensure the long-term resilience of the regional sewage and drainage system to withstand natural hazards, climate change and other significant disruptions.
- Develop and implement financial plans and policies that reflect a commitment to sound financial management and long-term planning, in consideration of current and future ratepayers.
- Strengthen awareness and engagement with the public, members, other orders of government, and key stakeholders on a range of initiatives that will ensure that the regional liquid waste system protects public health and the environment, now and into the future.

Integrated Liquid Waste and Resource Management Plan:

- Goal 1 - Protect public health and the environment
- Goal 2 - Use liquid waste as a resource
- Goal 3 - Effective, affordable and collaborative management

Liquid Waste Services - Engineering, Design and Construction
Work Plan 2027

Performance Indicators

Indicator	Historical and/or Industry Benchmark	Current Performance	2027 Performance Objective
Number of days between May 1 st and September 30 th swimming advisories posted by the Health Authorities (combined totals for all beaches in region)	MV 3-year average: 28 2023: 5 2022: 52 2021: 26	2024 ¹ : 23 2025 ² : xx	33
Fraser River water quality index ³	MV historical 3-year averages ⁴ : 2021-2023: 85 2020-2022: 82 2019-2021: 69	2022-2024 ⁴ : 80	80
Burrard Inlet water quality index ³	MV historical 3-year averages ⁴ : 2020-2022: 78 2019-2021: 84 2018-2020: 76	2021-2023 ⁴ : 78	78
Sturgeon Bank water quality index ³	MV historical 3-year average ⁴ : 2020-2022: 80 2019-2021: 88 2018-2020: 91	2021-2023 ⁴ : 80	80

¹ As of September 30, 2024

² As of July 14, 2025

³ Water Quality Index (WQI): Excellent (WQI value 95-100), Good (80-94), Fair (65-79), Marginal (45-64), Poor (0-44)

⁴ The reported WQI value represents the 3-year rolling average ending in the year of most recent data, based on data collection and reporting timelines

Liquid Waste Services - Engineering, Design and Construction
Work Plan 2027

2027 Key Actions

- Produce the 2025 GVS&DD Environmental Management & Quality Control Annual Report.
- Complete and submit 2025 National Pollution Release Inventory (NPRI) Report to Environment Canada.
- Perform False Creek water quality monitoring and assessment in collaboration with Friends of False Creek, Raincoast Conservation Foundation and the City of Vancouver.
- Develop a standard method for evaluating sewer collection system management options that relies on design storm event modelling to optimize operation of the collection system to minimize impact of combined and sanitary sewer overflows (CSOs and SSOs) on human and ecological health.
- Initiate monitoring of sanitary indicator parameters, conduct genetic source tracking and continue monitoring the concentrations of 6PPD-Quinone in Metro Vancouver CSOs to determine the proportion of sanitary wastewater in regional CSOs and calculate the sanitary loading contribution from the Metro Vancouver CSOs into regional waterbodies.
- Update the SSO Rapid Risk Ranking Tool for all SSOs for the 5-year interval of 2021-2025.
- Continue scenario modelling and now-casting to support regulatory reporting of wastewater treatment plant (WWTP) process upsets.
- Initiate modelling on fate and transport of fine particulate materials associated with CSOs and WWTP effluent.
- Continue the collaborative work on advancing the use of wastewater-based epidemiology for the protection of public health with the assessment of anti-microbial resistant pathogens.
- Continue collaboration with SFU on development of genomics solutions for understanding impacts of WWTP discharges on Fraser River Chinook salmon.
- Conduct pilot assessment for the use of acoustic telemetry for tracking fish to assess site fidelity of sentinel fish species in the Fraser River.
- Accredited new analytical methodology for testing of Perfluoroalkyl and Polyfluoroalkyl (PFAS) substances and expand the accredited scope of PFAS testing parameters to enhance monitoring capabilities in water and wastewater.
- Continue wastewater analyses for pharmaceuticals and personal care products (PPCPs).



LIQUID WASTE SERVICES

Operations & Maintenance - Wastewater Collections & Drainage

Description of Services

Liquid Waste Services provides wastewater collection and treatment services to the region through the Liquid Waste function under the authority of the Greater Vancouver Sewerage and Drainage District (GVS&DD). The Wastewater Collection and Drainage Division is responsible for managing the operations and of the sewer collection network. This includes day-to-day management of the infrastructure assets and supporting infrastructure. This business area is also responsible for managing the operations of Urban Drainage areas including the Still Creek/Brunette, Port Moody/Coquitlam, and UBC Drainage areas.

Alignment of Strategic Directions and High-Level Goals

Board Strategic Plan

- Ensure that our critical regional infrastructure is sufficiently maintained or replaced to meet current and future service needs, and is resilient to impacts from seismic events, wildfires, power failures, and natural disasters.
- Ensure that our services and infrastructure are able to meet the needs of a growing population.
- Ensure that all services and infrastructure anticipate and meet regulatory requirements, and that the organization is responsive to legislative change.
- Deliver utility and regional services in a way that ensures affordability for residents and long-term financial sustainability for the organization, using sound fiscal policies that balance the organization's long-term financial health while maintaining affordability for regional ratepayers.
- Proactively work to respond to the climate emergency by preparing for the impacts of climate change and accelerating reductions in greenhouse gas emissions.
- Continue to make investments and adaptations in service areas to ensure that our communities and organizations can prepare, avoid, absorb, recover, and adapt to the effects of shocks and stresses in an efficient manner.

Integrated Liquid Waste and Resource Management Plan

- Goal 1 - Protect public health and the environment
- Goal 2 - Use liquid waste as a resource
- Goal 3 - Effective, affordable and collaborative management

Liquid Waste Services - Operations & Maintenance - Wastewater Collections & Drainage
Work Plan 2027

Performance Indicators

Indicator	Historical and/or Industry Benchmark	Current Performance	2027 Performance Objective
Number of reported events of sanitary sewer overflows (SSOs): non-weather related	MV 3-year average: 16 2024: 18 2023: 16 2022: 14	12	0
Number of odour complaints received	MV 3-year average: 9 2024: 11 2023: 11 2022: 4	4	10

2027 Key Actions

- Continue inspection of approximately 5% of MV's sewer collection system, including gravity sewer and maintenance holes.
- Establish an asset risk evaluation framework and commence with the application of this framework for existing assets on a priority basis.
- Evaluate the suitability of various full-pipe inspection technologies and conduct a detailed inspection for a minimum of one forcemain location.
- Complete 3 emergency bypass strategies for pump stations.
- Complete comprehensive review of preventative maintenance schedules for assets to adjust frequency based on risk.
- Complete assessment to optimize routes of crews based on geospatial preventative maintenance schedules and compare driving time for before and after optimization to determine benefit.
- Completed assessment to optimize crew size to align with required resources to complete PM work.
- Complete an emergency response Field Services exercise, including coordination with Protection Services and Emergency Management.



LIQUID WASTE SERVICES

Operations & Maintenance - Wastewater Treatment & Residuals Management

Description of Services

Liquid Waste Services provides wastewater collection and treatment services to the region through the Liquid Waste function under the authority of the Greater Vancouver Sewerage and Drainage District (GVS&DD). The Wastewater Treatment & Residuals Management division is responsible for managing the operations and maintenance of the five regional wastewater treatment plants (WWTPs). This includes long-range facility planning and day-to-day management of the infrastructure assets and supporting infrastructure with the objective of complying with provincial and federal regulations and recovering as many resources from the wastewater as economically feasible. This business area is also responsible for the beneficial use of biosolids, and other residuals produced through the treatment process.

Strategic Directions and High-Level Goals Supported

Board Strategic Plan

- Ensure that our critical regional infrastructure is sufficiently maintained or replaced to meet current and future service needs, and is resilient to impacts from seismic events, wildfires, power failures, and natural disasters.
- Ensure that our services and infrastructure are able to meet the needs of a growing population.
- Ensure that all services and infrastructure anticipate and meet regulatory requirements, and that the organization is responsive to legislative change.
- Deliver utility and regional services in a way that ensures affordability for residents and long-term financial sustainability for the organization, using sound fiscal policies that balance the organization's long-term financial health while maintaining affordability for regional ratepayers.
- Proactively work to respond to the climate emergency by preparing for the impacts of climate change and accelerating reductions in greenhouse gas emissions.
- Continue to make investments and adaptations in service areas to ensure that our communities and organizations can prepare, avoid, absorb, recover, and adapt to the effects of shocks and stresses in an efficient manner.
- Provide un-interrupted service for the continuous removal of residuals from Metro Vancouver's wastewater treatment plants (WWTP) and the drinking water treatment plant.
- Find the highest and best beneficial use for the region's residuals while striving to reduce overall costs and GHG impacts.

Integrated Liquid Waste and Resource Management Plan

- Goal 1 - Protect public health and the environment
- Goal 2 - Use liquid waste as a resource
- Goal 3 - Effective, affordable and collaborative management

Liquid Waste Services - Operations & Maintenance - Wastewater Treatment & Residuals Management
Work Plan 2027

Performance Indicators

Indicator	Historical and/or Industry Benchmark	Current Performance	2027 Performance Objective
Volume treated per year (ML)	MV 3-year average: 442,936 2024: 465,814 2023: 427,816 2022: 435,178	460,400	434,000
Percent of digester gas used at the Wastewater Treatment Plants	MV 3-year average: 64% 2024: 68% 2023: 61% 2022: 65%	65%	65%
Compliance with treatment plant Operational Certificates (%)	MV 3-year average: 99.99% 2024: 99.99% 2023: 99.99% 2022: 99.99%	100%	100%
Percent of biosolids beneficially used	MV 3-year average: 100% 2024: 100% 2023: 100% 2022: 100%	100%	95%
Percent of biosolids beneficially used in-region	MV 3-year average: 11.5% 2024: 8.3% 2023: 11.9% 2022: 14.4%	10%	11%

2027 Key Actions

New Initiatives

- Complete dredging of northeast lagoon at Iona Island WWTP
- Commence pilot testing of biosolids at Vancouver Landfill closure soil
- Establish an asset risk evaluation framework and commence with the application of this framework for existing assets on a priority basis.
- Update the Emergency Response Plans (ERP) at Iona, Lulu, Northwest Langley and Lions Gate Treatment Plants
- Complete and drill comprehensive emergency response exercise.
- Complete Digester Gas Hazard and Operability (HAZOP) Study and Modelling for Iona and Lulu Island Treatment Plants
- Implement of Management of Change (MOC) process and software to meet upcoming WorkSafe Regulations
- Continue pilot testing of the nanobubble system to enhance primary treatment
- Update Odour Dispersion Modeling for all five treatment plants



LIQUID WASTE SERVICES Policy, Planning and Analysis

Description of Services

The Policy, Planning and Analysis Directorate includes policy development, planning for utility resilience, and technology innovation to keep the utility in compliance with provincial and federal legislation. The Directorate undertakes analysis to inform the development of deliverables:

Products	Services
- Liquid Waste Management Plans (LWMP) - Source control bylaws - Growth infrastructure plans - Climate (wet weather) impact plans - Sustainability Innovation Fund projects	- Municipal support to achieve LWMP goals - Engagement on plan & policy development - Liaison with regulatory authorities - Support REAC's Liquid Waste Subcommittee and Rainwater Subcommittee

Strategic Directions and High-Level Goals Supported

Board Strategic Plan

- Ensure that our services and infrastructure are able to meet the needs of a growing population.
- Ensure that all services and infrastructure anticipate and meet regulatory requirements, and that the organization is responsive to legislative change.
- Deliver utility and regional services in a way that ensures affordability for residents and long-term financial sustainability for the organization, using sound fiscal policies that balance the organization's long-term financial health while maintaining affordability for regional ratepayers.
- Proactively work to respond to the climate emergency by preparing for the impacts of climate change and accelerating reductions in greenhouse gas emissions.

2025 Liquid Waste Management Plan Goals

- Prevent pollution** in the environment by collecting and treating wastewater.
- Reduce demands** on the wastewater system by reducing inputs at source, which conserves infrastructure capacity to serve a growing population.
- Recover resources** from wastewater, such as energy and nutrients. This supports the transition to a circular water economy.
- Restore ecological systems** to rehabilitate degraded and damaged environments, to revitalize their natural functions and improve habitats.
- Reflect First Nations' priorities.** Respect Indigenous Knowledge, uphold Indigenous rights, collaborate to enhance shared outcomes.

Performance Indicators

Indicator	Historical and/or Industry Benchmark	Current Performance	2027 Performance Objective
Annual number of wet-weather related sanitary sewer overflow (SSO) events from Metro Vancouver sewers	MV 3-year average: 40 2024: 60 2023: 17 2022: 42	60	0

Liquid Waste Services - Policy, Planning and Analysis
Work Plan 2027

Indicator	Historical and/or Industry Benchmark	Current Performance	2027 Performance Objective
Annual CSO Volume (ML)	MV 3-year average: 28,900 2024: 37,525 2023: 20,200 2022: 29,100	37,525	28,000
Percentage of Assets not Meeting Capacity or Regulation within 10 Years	MV 3-year average: 22% 2024: 22% 2023: 22% 2022: 22%	22%	22%

2027 Key Actions

- Receive provincial approval of LWMP and begin implementation of actions including setting up an online reporting dashboard, supporting members to reduce their wet weather sewer levies, and continuing discussions with First Nations for improved collaboration.
- Develop and maintain short- and long-range growth plans for the collection system that lay out the scope, budget, and timing.
- Create an Urban Watershed Forum, develop templates for a rainwater dashboard and rainwater programs, policies and bylaws. Update the IWMP template and Adaptive Management Framework.
- Update Sewer Use Bylaw fees to improve cost recovery and other actions to minimize upstream impacts to the wastewater system and environment.
- Continue to advocate for federally regulated labelling standards for wipes and other unflushable items.
- Continue combined sewer separation programs and flow metering studies to reduce inflow and infiltration that consumes system capacity.
- Begin detailed climate vulnerability risk assessments of sewerage areas.
- Continue implementing the testing plan for the Lulu Island Pilot Digestion Optimization Facility (PDOF) and finalize detailed design of the pilot-scale SEED Reactor to be tested at the PDOF.
- Initiate preliminary design of a hydrogen pilot at Lulu Island WWTP to recover ammonia and convert it to low-carbon hydrogen.
- Continue to lead the research program for the Hydrothermal Processing Demonstration Facility and begin managing the third-party operations and maintenance contract.
- Conduct long term planning of WWTPs including development of Facility Plans.
- Undertake regulatory reviews including WWTP Operational Certificate and LWMP WWTP amendments.



LIQUID WASTE SERVICES

Support Services and Strategic Initiatives

Description of Services

Liquid Waste Services provides wastewater collection and treatment services to the region through the Liquid Waste function under the authority of the Greater Vancouver Sewerage and Drainage District (GVS&DD). The Support Services and Strategic Initiatives division is responsible for the following Liquid Waste Services functions: business and financial planning and management; department support services; capital budget planning; performance management and the Annacis Research and Event Centre.

Strategic Directions and High-Level Goals Supported

Board Strategic Plan

- Ensure that our critical regional infrastructure is sufficiently maintained or replaced to meet current and future service needs, and is resilient to impacts from seismic events, wildfires, power failures, and natural disasters.
- Ensure that our services and infrastructure are able to meet the needs of a growing population.
- Ensure that all services and infrastructure anticipate and meet regulatory requirements, and that the organization is responsive to legislative change.
- Deliver utility and regional services in a way that ensures affordability for residents and long-term financial sustainability for the organization, using sound fiscal policies that balance the organization's long-term financial health while maintaining affordability for regional ratepayers.
- Proactively work to respond to the climate emergency by preparing for the impacts of climate change and accelerating reductions in greenhouse gas emissions.
- Continue to make investments and adaptations in service areas to ensure that our communities and organizations can prepare, avoid, absorb, recover, and adapt to the effects of shocks and stresses in an efficient manner.

Integrated Liquid Waste and Resource Management Plan

- Goal 1 - Protect public health and the environment
- Goal 2 - Use liquid waste as a resource
- Goal 3 - Effective, affordable and collaborative management

Liquid Waste Services - Support Services and Strategic Initiatives
Work Plan 2027

Performance Indicators

Indicator	Historical and/or Industry Benchmark	Current Performance	2027 Performance Objective
Operating cost per million litres collected and treated (\$/ML)	MV 3-year average: \$521 2024: \$544 2023: \$548 2022: \$472	\$608	\$656
Total LWS energy consumption (GJ/ML)	MV 3-year average: 2.27 2024: 2.34 2023: 2.21 2022: 2.25	2.27	2.20
Total Greenhouse gas emissions from energy and direct emissions (kg CO ₂ e/ML)	MV 3-year average: 19.2 2024: 17.9 2023: 20.5 2022: 19.2	17.9	21.0
Energy Savings Realized (kWh/y)	MV 3-year average: 1,305,680 2024: 1,870,400 2023: 963,000 2022: 273,000	1,870,400	500,000

2027 Key Actions

- In support of Climate 2050 emission reduction targets, and in collaboration with utilities worldwide through the WEF Greenhouse Gas Communities group, continue the development of plans to monitor and ultimately reducing process-based greenhouse gas emissions at wastewater treatment plants.
- Promote and pursue additional partnerships with municipalities, utilities and the property development community to implement opportunities for resource recovery from liquid waste with emphasis on projects that achieve regional greenhouse gas emissions reductions.
- Continue on-site GHG monitoring at Lulu Island WWTP to identify and quantify sources of fugitive emissions from wastewater treatment process units.

2027 to 2031 – WHAT’S HAPPENING IN LIQUID WASTE SERVICES

Below is a summary of the significant initiatives to be undertaken by Liquid Waste Services over the next five years. Includes liquid waste-related projects managed by the Project Delivery Department.

Initiative	Description	Theme
2027		
Annacis Island WWTP Stage 5 Expansion Program	Commence Solids Contact Tanks Channel Modifications construction. Commence ground improvements for Trickling Filters No. 5 and 6. Complete conceptual design and commence preliminary design of Digesters No. 9 and 10.	Regional Growth
Regional Biosolids Dryer	Complete project definition and commence preliminary design.	Opportunity
Iona Island WWTP Projects	Continue preliminary design for the WWTP. Pilot testing of selected secondary treatment technology. Continue construction of early electrical and other enabling works.	Regulatory and Legislative Environment
Northwest Langley Expansion WWTP Program	Issue first of two RFPs to retain WWTP Construction Contractor. Complete Environmental Impact Study and the Replacement Outfall preliminary design. Complete Ground Improvements activities for the NLWWTP Expansion Project.	Regional Growth
North Shore WWTP Program	Focus on completing concrete works and fully mobilizing other supporting disciplines. Complete procurement and expedite delivery of corporation supplied equipment packages. Continue development and deployment of the plant’s industrial control system and continue planning for facility commissioning. Work with Province to amend the Operational Certificate.	Regulatory and Legislative Environment
Annacis Island WWTP Trickling Filters	Complete replacement of media, distributor arms and foul air ducting.	System Stewardship
Annacis Island WWTP Outfall	Complete all construction activities Complete all testing, commissioning. Complete close-out tasks	System Stewardship

Initiative	Description	Theme
Vancouver Sewerage Area Pump Station Backup Power	Install permanent generators at Jervis Pump Station. Complete pump station backup power installation.	System Stewardship
Cloverdale Pump Station	Complete construction of the first phase of the project to meet the current capacity.	System Stewardship
Climate Adaptation Plan – Vancouver Sewerage Area	Complete a detailed climate and vulnerability assessment and develop an adaptation plan to protect regional assets from climate change impacts.	Environmental Sustainability/ System Stewardship
Gilbert Trunk Sewer	Complete twinning of Gilbert Trunk Sewer to improve system reliability and resiliency.	System Stewardship
Annacis Island WWTP Fugitive Emissions Monitoring	Initiate monitoring project to measure and identify improvements in fugitive greenhouse gas emissions.	Opportunity and Environmental Sustainability
Lulu Island WWTP Fugitive Emissions Reductions	Reduce fugitive greenhouse gas emissions and increase revenues based on Lulu Island monitoring project recommendations.	Opportunity and Environmental Sustainability
Gleneagles Forcemain	Complete construction of the Gleneagles Forcemain replacement, the last section to connect to Hollyburn Interceptor.	System Stewardship
South Surrey Interceptor	Complete construction of the South Surrey Interceptor – Johnson Road Section, the last part of the system to be twinned.	Regional Growth
Stoney Creek Trunk Sewer – Coquitlam Section	Complete construction of the expansion of Stoney Creek Trunk in Coquitlam to mitigate overflow into Stoney Creek and increase capacity	Regional Growth and System Stewardship
Urban Watershed Forum	Establish a forum co-hosted by REAC LWSC and RPAC ENV along with First Nations to facilitate cross discipline collaboration on watershed health.	Environmental Sustainability
2028		
Annacis Island WWTP Hydrothermal Processing (HTP) Demonstration Facility	Commence operation of facility to demonstrate production of biocrude oil from sewage sludge.	Environmental Sustainability
Annacis Island WWTP Fugitive Emissions Monitoring	Complete monitoring project to measure and identify improvements in fugitive greenhouse gas emissions.	Opportunity and Environmental Sustainability

Initiative	Description	Theme
Annacis Island WWTP Stage 5 Expansion	Complete ground improvements for Trickling Filters No. 5 and 6 and commence construction. Commence Centrifuges replacement. Complete preliminary design of Digesters No. 9 and 10.	Regional Growth
Regional Biosolids Dryer	Complete preliminary design of the Regional Biosolids Dryer.	Opportunity
Northwest Langley Expansion WWTP Program	Retain one of two contractors to construct the NLWWTP Expansion Project (Liquids Contract).	Regional Growth
North Shore WWTP Program	Construction and equipment delivery activities continue. Planning for commissioning, Conveyance completion, and LGWWTP Decommissioning ongoing. Operating Certificate amendment application process proceeding.	Regulatory and Legislative Environment
Climate Adaptation Plan - Fraser Sewerage Area	Complete detailed climate and vulnerability assessment and develop an adaptation plan to protect regional assets in the FSA from climate change impacts.	Environmental Sustainability/ System Stewardship
LIWWTP Effluent Heat Recovery and High Efficiency Boiler	Completion of construction of facility to increase volume of Renewable Nature Gas available for sale.	Opportunity
Iona Island WWTP Projects	Complete preliminary design and procure detailed design of the WWTP. Commence ground improvements stone columns. Complete secondary/treatment technology pilot testing. Commence primary plant rehabilitation.	Regulatory and Legislative Environment
Lulu Island WWTP Trickling Filter Rehabilitation	Complete the rehabilitation of the first of possibly four trickling filters	Maintenance
Update Liquid Waste Treatment Fees for Industrial and Commercial Users	Update fees for industrial and commercial users to improve cost recovery and create better incentives for demand side management.	Financial Sustainability
2029		
Annacis Island WWTP Hydrothermal Processing (HTP) Demonstration Facility	Complete performance evaluation of the production of biocrude oil from sewage sludge at demonstration scale.	Environmental Sustainability

Initiative	Description	Theme
Iona Island WWTP Fugitive Emissions Monitoring	Initiate monitoring project to measure and identify improvements in fugitive greenhouse gas emissions.	Opportunity and Environmental Sustainability
Annacis Island WWTP Fugitive Emissions Monitoring	Reduce fugitive greenhouse gas emissions and increase revenues based on Annacis Island monitoring project recommendations.	Opportunity and Environmental Sustainability
Iona Island WWTP Projects	Commence detailed design of WWTP Upgrades. Continue with primary plant rehabilitation. Commence seismic barrier walls.	Regulatory and Legislative Environment
Annacis Island WWTP Stage 5 Expansion	Complete Solids Contact Tanks Channel Modifications construction. Commence detailed design of Digesters No. 9 and 10.	Regional Growth
Regional Biosolids Dryer	Commence detailed design of the Regional Biosolids Dryer.	Opportunity
Lulu Island WWTP Gravity Thickener Redundancy	Complete construction of a second gravity thickener at LIWWTP to increase plant reliability	Maintenance
Westridge Pump Station	Complete rehabilitation of Westridge Pump Station 2 and upgrade of Westridge Pump Station 1 to meet current safety regulations and expand station capacity.	System Stewardship
Lulu Island WWTP Trickling Filter Rehabilitation	Complete the rehabilitation of the first of possibly four trickling filters	Maintenance
Lulu Island WWTP Secondary Clarifier Rehabilitation	Complete the rehabilitation of the first of three secondary clarifiers	Maintenance
Marshend Pump Station	Complete replacement of the pump station to meet current safety and seismic regulations, and to expand the capacity.	System Stewardship
New Westminster Interceptor	Complete rehabilitation of West Branch and Columbia Street Extension.	System Stewardship
North Shore WWTP Program	Major construction and equipment installation nearing completion. Commence commissioning activities including functional testing (clean water testing) of plant processes.	Regulatory and Legislative Environment
Climate Adaptation Plan – North Shore Sewerage Area	Complete a detailed climate and vulnerability assessment and develop an adaptation plan to protect regional assets in the NSSA from climate change impacts.	Environmental Sustainability / System Stewardship

Initiative	Description	Theme
Northwest Langley Expansion WWTP Program	Retain second contractor to construct the NLWWTP Expansion Project (Solids Contract).	Regional Growth
Stoney Creek Trunk Sewer – Burnaby Section	Complete construction of the expansion of Stoney Creek Trunk in Burnaby to mitigate overflows into Stoney Creek and increase capacity	Regional Growth and System Stewardship
Wet Weather Plan	Complete plan for eliminating wet weather overflows in sewer collection systems.	Environmental Sustainability
2030		
Annacis Island WWTP Stage 5 Expansion	Commence construction of Digesters No. 9 and 10.	Regional Growth
Regional Biosolids Dryer	Commence construction of the Regional Biosolids Dryer.	Opportunity
Iona Island WWTP Projects	Commence piling. Continue with primary plant rehabilitation.	Regulatory and Legislative Environment
North Shore WWTP Program	Continue WWTP commissioning and prepare to enter initial operation.	Regulatory and Legislative Environment
AIWWTP Chemistry Lab Expansion	Complete the expansion of laboratory space at AIWWTP.	Upgrade
Climate Adaptation Plan – Lulu Island Sewerage Area	Complete a detailed climate and vulnerability assessment and develop an adaptation plan to protect regional assets in the Lulu Sewerage Area from climate change impacts.	Environmental Sustainability/ System Stewardship
Iona Island WWTP Fugitive Emissions Monitoring	Complete monitoring project to measure and identify improvements in fugitive greenhouse gas emissions.	Opportunity and Environmental Sustainability
Northwest Langley Expansion WWTP Program	Advance NLWWTP Expansion Project construction under both contracts (Liquids Contract and Solids Contract). Commence Outfall construction.	Regional Growth
Lulu Island WWTP Trickling Filter Rehabilitation	Complete the rehabilitation of the third of possibly four trickling filters	Maintenance
Lulu Island WWTP Secondary Clarifier Rehabilitation	Complete the rehabilitation of the second and third of three secondary clarifiers	Maintenance
AIWWTP Chemistry Lab Expansion	Complete the expansion of laboratory space at AIWWTP	Upgrade
2031		

Initiative	Description	Theme
Lulu Island WWTP Trickling Filter Rehabilitation	Complete the rehabilitation of the fourth (if needed) of possibly four trickling filters	Maintenance
Iona Island WWTP Projects	Complete primary plant rehabilitation. Complete detailed design of the WWTP upgrades.	Regulatory and Legislative Environment
Northwest Langley Expansion WWTP Program	Advance NLWWTP Expansion Project construction under both contracts (Liquids Contract and Solids Contract). Advance Outfall Construction.	Regional Growth
Annacis Island WWTP Stage 5 Expansion	Complete construction of Trickling Filters No. 5 and 6, Pump Station No. 2, and Centrifuges replacement.	Regional Growth
North Shore WWTP	Undertake Conveyance final works construction. Prepare to cease operations and initiate de-commissioning of LGWWTP.	Regulatory and Legislative Environment
Iona Island WWTP Fugitive Emissions Monitoring	Reduce fugitive greenhouse gas emissions and increase revenues based on Iona Island monitoring project recommendations.	Opportunity and Environmental Sustainability

METRO VANCOUVER DISTRICTS
2027 — 2031 PROJECTED RESERVES — LIQUID WASTE SERVICES

OPERATING RESERVES

	2026 ENDING BALANCE	2027 OPENING BALANCE	TRANSFER	CONTRIBUTION	WITHDRAWALS	INTEREST	2027 ENDING BALANCE	2028 ENDING BALANCE	2029 ENDING BALANCE	2030 ENDING BALANCE	2031 ENDING BALANCE
Liquid Waste Services	\$ 42,828,630	\$ 42,828,630		\$ —	\$ —	\$ 1,070,716	\$ 43,899,346	\$ 43,478,080	\$ 44,565,032	\$ 45,679,158	\$ 46,821,137

DISCRETIONARY RESERVES

	2026 ENDING BALANCE	2027 OPENING BALANCE	TRANSFER	CONTRIBUTION	WITHDRAWALS	INTEREST	2027 ENDING BALANCE	2028 ENDING BALANCE	2029 ENDING BALANCE	2030 ENDING BALANCE	2031 ENDING BALANCE
Liquid Waste Services											
Liquid Waste General Debt Reserve Fund	\$ 3,359,317	\$ 3,359,317	\$ —	\$ —	\$ —	\$ 83,983	\$ 3,443,300	\$ 3,529,383	\$ 3,617,618	\$ 3,708,058	\$ 3,800,759
Lions Gate Contingency	1,769,402	1,769,402	—	—	—	44,235	1,813,637	1,858,978	1,905,452	1,953,088	2,001,915
Drainage General Reserve	3,863,646	3,863,646	—	—	(3,423,001)	53,804	494,449	496,685	296,477	141,889	59,374
Total	\$ 8,992,365	\$ 8,992,365	\$ —	\$ —	\$ (3,423,001)	\$ 182,022	\$ 5,751,386	\$ 5,885,046	\$ 5,819,547	\$ 5,803,035	\$ 5,862,048

STATUTORY RESERVES

	2026 ENDING BALANCE	2027 OPENING BALANCE	TRANSFER	CONTRIBUTION	WITHDRAWALS	INTEREST	2027 ENDING BALANCE	2028 ENDING BALANCE	2029 ENDING BALANCE	2030 ENDING BALANCE	2031 ENDING BALANCE
Liquid Waste Services											
Liquid Waste Laboratory Equipment Reserve	\$ 1,307,824	\$ 1,307,824	\$ —	\$ 116,639	\$ (250,000)	\$ 31,029	\$ 1,205,492	\$ 1,358,365	\$ 912,404	\$ 1,067,858	\$ 1,231,194
Liquid Waste Sustainability Innovation Fund Reserve	12,813,797	12,813,797	—	1,127,000	—	334,432	14,275,229	15,773,197	17,308,614	18,882,417	20,495,565
North Shore WWTP Reserve	166,330,754	166,330,754	—	130,658,820	(127,878,151)	4,193,027	173,304,450	152,137,266	133,556,535	147,627,575	177,561,331
Total	\$ 180,452,375	\$ 180,452,375	\$ —	\$ 131,902,459	\$ (128,128,151)	\$ 4,558,488	\$188,785,171	\$169,268,828	\$151,777,553	\$167,577,850	\$199,288,090



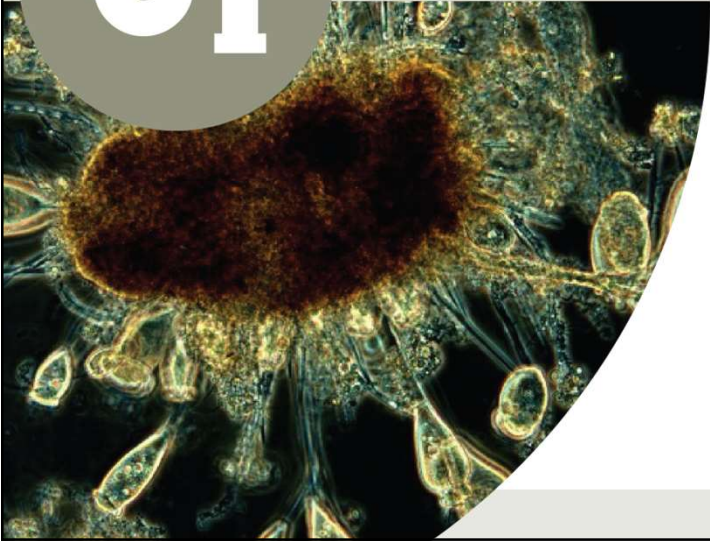
Annacis Island Wastewater Treatment Plant

Liquid Waste 2027–2031 Financial Plan

Peter Navratil
General Manager, Liquid Waste Services

metrovancouver

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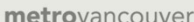
LIQUID WASTE OVERVIEW

- **530** kilometers of trunk sewers
- **35** pump stations
- **3** storage tanks
- **5** treatment plants
- Average of **1.2 billion litres** of wastewater per day
- **3** urban drainage areas:
Still Creek/Brunette, Port Moody/Coquitlam, University

2

 LIQUID WASTE SERVICES Service Objectives				
Service Objective	KPI Metric	Current	2030 Target	Goal
Eliminate Overflows from the Sewer System	Sanitary Sewage Overflow (SSO) events (#)	39	32	0 (2040)
	Combined Sewage Overflow (CSO) volume (ML)	22,302	30,000	0 (2075)
	Rainfall derived inflow and infiltration (RDII) (ML)	27,118	30,000	10,000(2040)
	Facilities not meeting basic service or regulations in next 10 years (%)	22%	15%	0% (2035)
Protect Public Health and the Environment – Authorized WWTP Discharges	Duration of events not in compliance with operational certificates (hrs)	134.93	0	0 (2030)
	Duration of events not in compliance with WSER (hrs)	8,595	0	0 (2040)
	Recreational water quality (% of tests not meeting criteria)	1.33%	1.5%	0 (2040)
Improve Environmental Stewardship	Biosolids beneficially used (%)	100%	100%	100%(2030)
	Net GHG emissions (kg of CO ₂ / ML treated)	15.0	(2.1)	0 (2050)
	Odour complaints (#)	13	10	0 (2035)
Minimize Timeline to Recover from a Major Event	Targeted assets resilient to seismic event (%)	Undefined	Defined	100%(2050)
	Targeted assets resilient to power outage event (%)	82%	100%	100%(2035)
	Targeted assets resilient to climate change event (%)	Undefined	Defined	100%(2100)
				

3

 LIQUID WASTE SERVICES Continuous Improvement – 2026 Complete or Ongoing	
Initiative	Outcomes
In-House Construction Capacity	Increase in-house construction capacity to allow execution of complex and high community impact projects, reduce costs and improve response for emergent events.
Lulu Island WWTP Effluent Heat Recovery	Increase the amount of biomethane available for conversion to renewable natural gas resulting in a \$150K increase per year in revenue.
Trucked Liquid Waste Rate Review	A review of the Trucked Liquid Waste rates resulting in a \$1.1M increase in annual revenue in 2025 and an additional \$1.9M in 2026.
Service Delivery Improvements	Improvements to planning and delivery of after-hours trades support resulted in 27% improvement in trades coverage and annual ongoing savings of \$115,000.
	



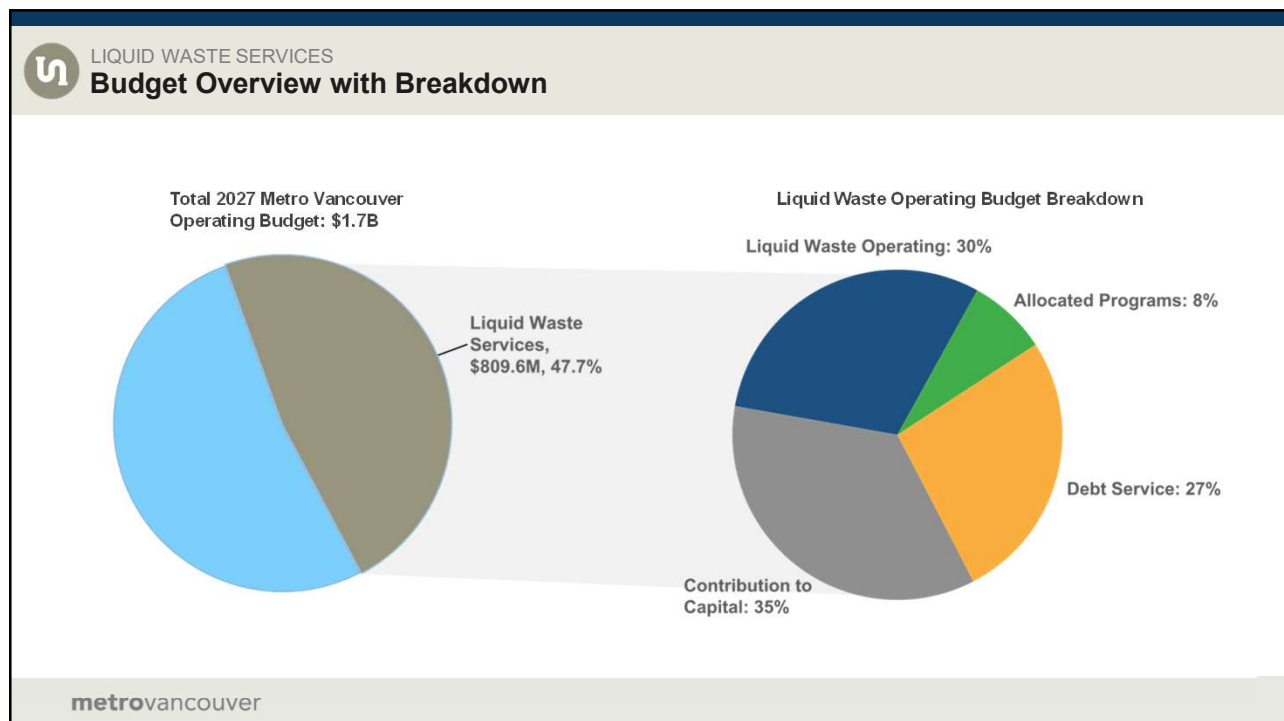
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LIQUID WASTE SERVICES

Continuous Improvement – 2027 New

Initiative	Outcomes
Biannual Roundtable with Construction Industry	Improve quality of competitive bids on work by sharing more information with industry about upcoming contracting procurement opportunities.
Digestion Intensification Pilot	Test digestion intensification process, to meet capacity needs until expansion projects are complete.
Temporary Bypass Authorization	Streamlined temporary bypass authorizations will speed up action and reduce administrative burden, freeing staff for other priorities.
Red Tape Reducer	Staff-led initiatives to reduce red tape gathered, prioritized, and implemented.
Fish Telemetry Study in Fraser River	Collaborative effort to implement a more efficient fish monitoring program to estimate the exposure of fish to Metro Vancouver's discharged treated sewage.

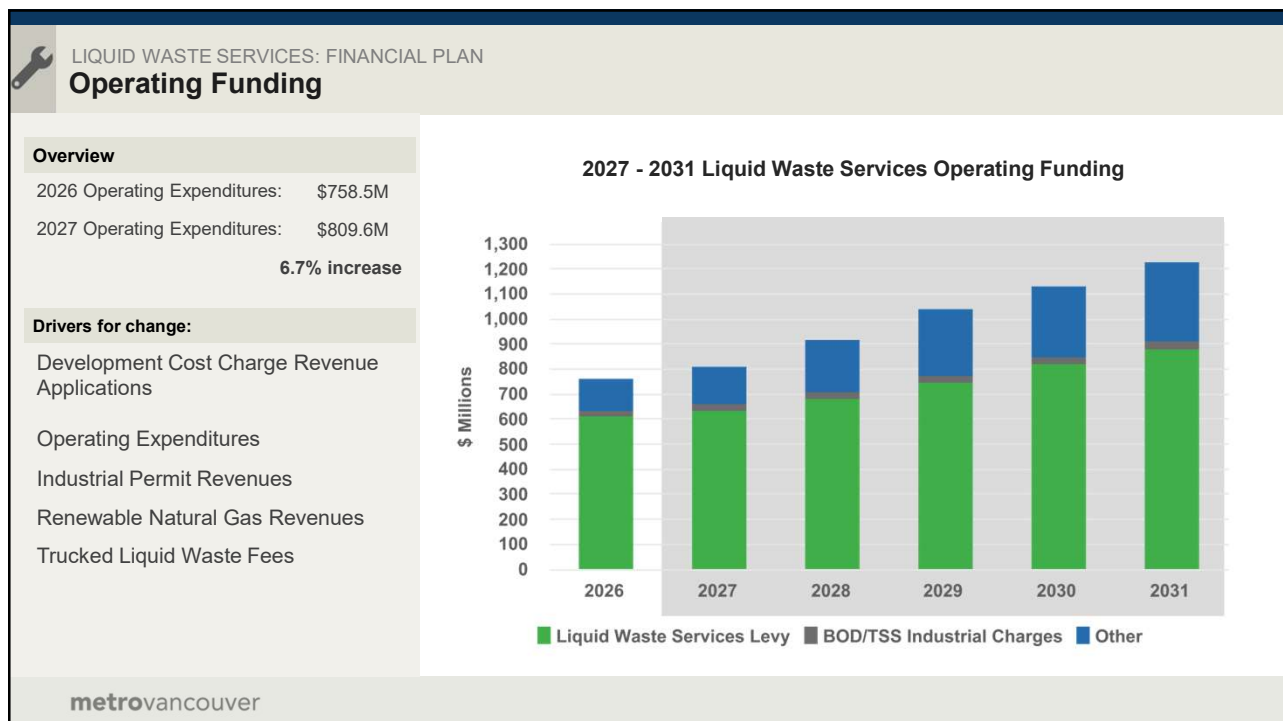
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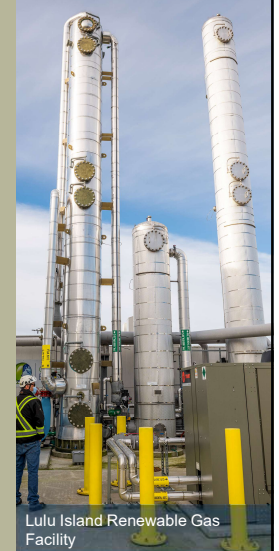
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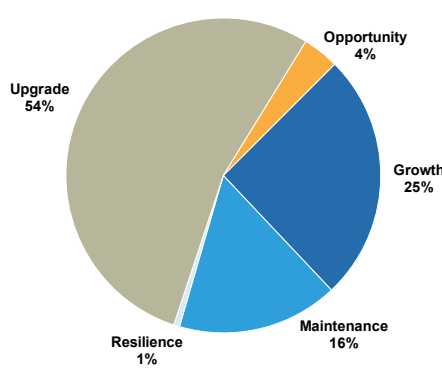
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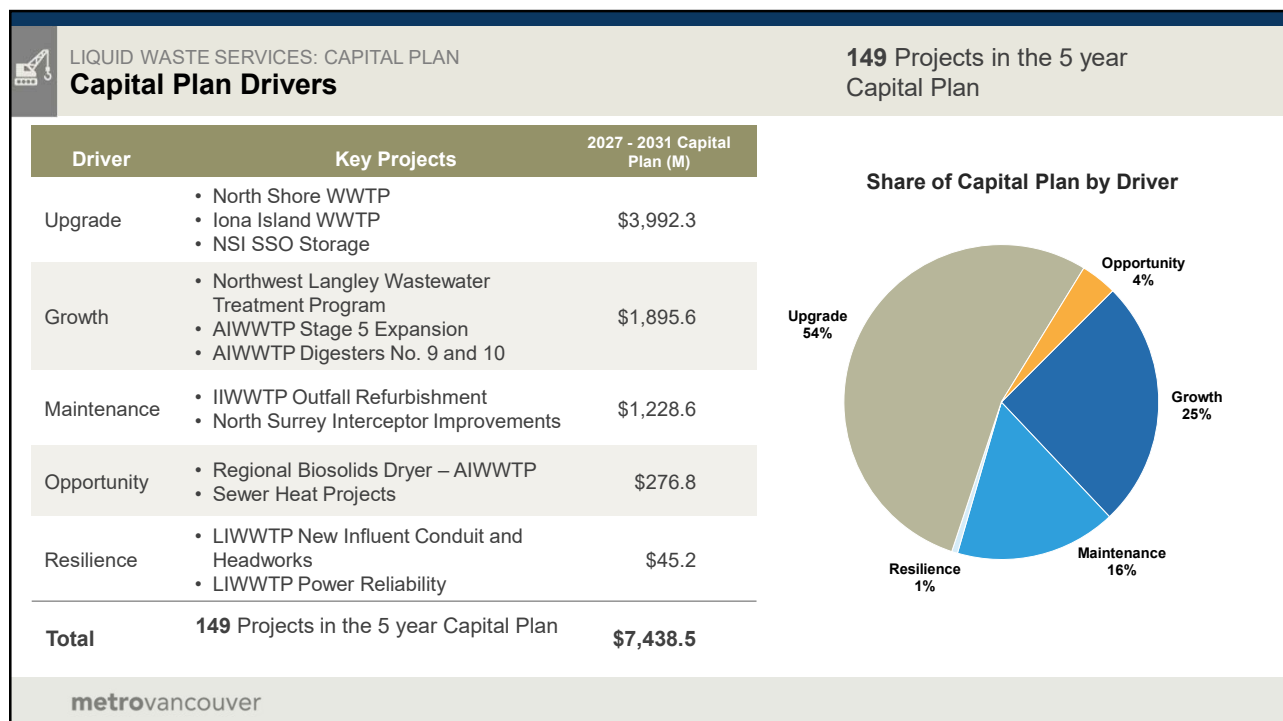
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 LIQUID WASTE SERVICES: OPERATING BUDGET Operating Highlights 2027–2031			
Budget Year	Initiative	Description	
2027	Innovative lab technique development	Obtain accreditation for new laboratory methodology for in-house testing of emerging constituents in drinking water that cause taste and odor issues	
2028	AIWWTP Hydrothermal Processing Pilot Demonstration Facility	Complete performance evaluation of production of biocrude oil from sewage sludge	
2029	Liquid Waste Management Plan	Liquid Waste Management Plan fully implemented	
2030	LIWWTP Trickling Filter Rehabilitation	Complete the rehabilitation of the trickling filters	
2031	AIWWTP Ammonia Management Pilot	Complete testing of technology for recovering ammonia and producing green hydrogen	
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 LIQUID WASTE SERVICES: CAPITAL PLAN Capital Plan Drivers			Share of Capital Plan by Driver 
Driver	Outcome	2027 - 2031 Capital Plan (M)	
Upgrade	Enhance levels of service	\$3,992.3	
Growth	Accommodate population and economic growth	\$1,895.6	
Maintenance	Maintain assets in a state of good repair	\$1,228.6	
Opportunity	Reduce life-cycle costs and/or achieve Board goals	\$276.8	
Resilience	Minimize impacts resulting from seismic events and climate change	\$45.2	
Total		\$7,438.5	
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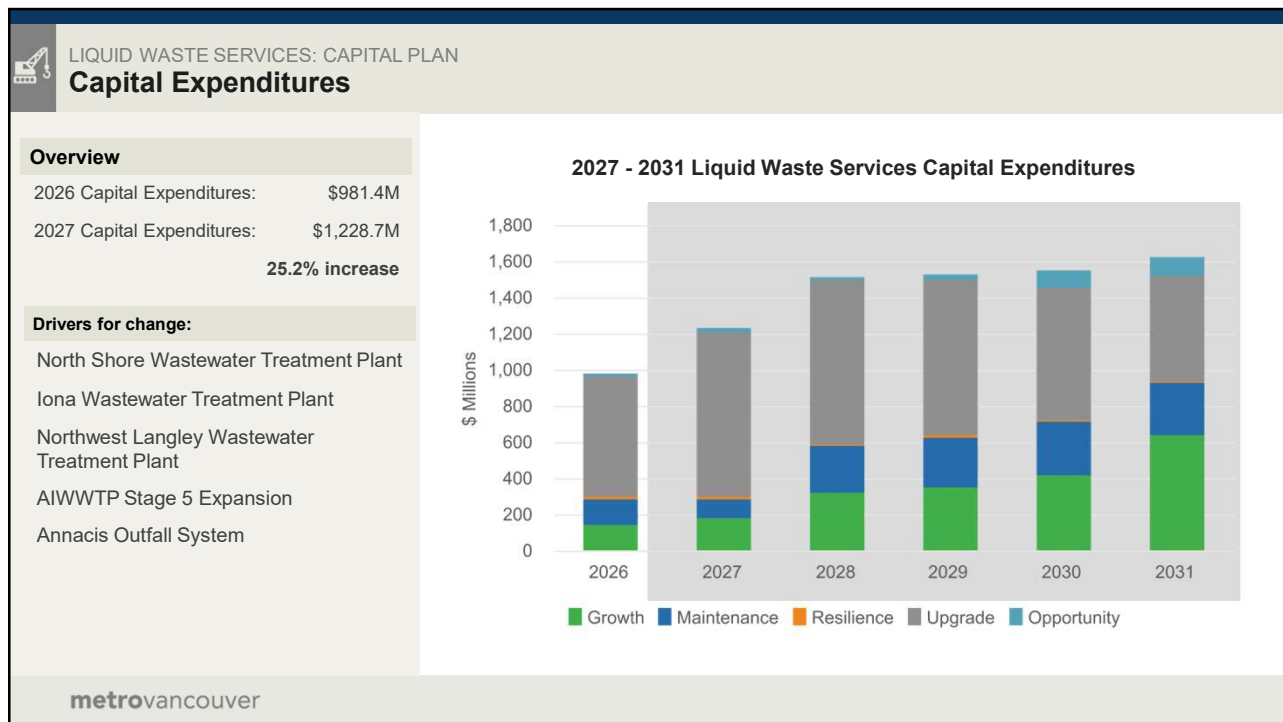


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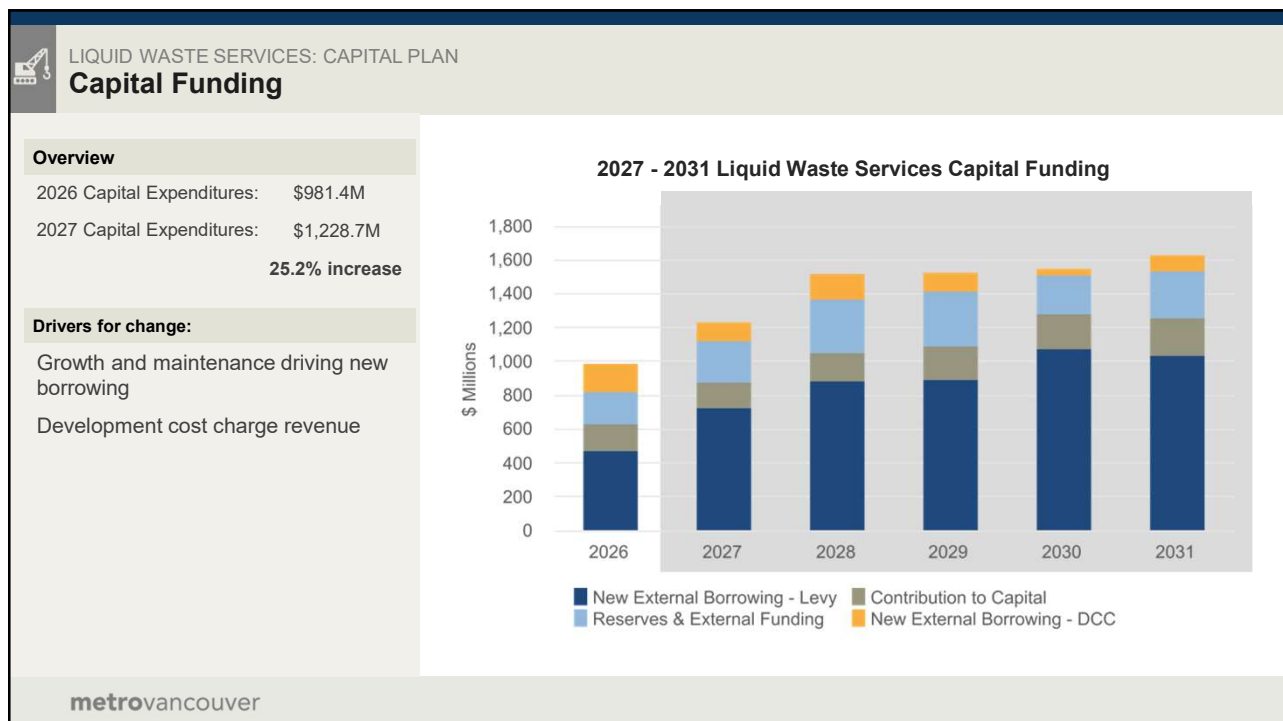
LIQUID WASTE SERVICES: CAPITAL PLAN				149 Projects in the 5 Year Capital Plan
Total Capital Plan Changes 2027–2031: \$642M				
Driver	5 Year Capital Plan (2026 - 2030)	DRAFT 5 Year Capital Plan (2027 - 2031)	\$ Change	Key Projects
Upgrade	\$3,900.1	\$3,992.3	\$92.2	North Shore WWTP Iona Island WWTP NSI SSO Storage
Growth	1,654.0	1,895.6	241.6	Northwest Langley Wastewater Treatment Program AIWWTP Stage 5 Expansion AIWWTP Digesters No. 9 and 10
Maintenance	1,045.3	1,228.6	183.3	IIWWTP Outfall Refurbishment North Surrey Interceptor Improvements
Opportunity	157.0	276.8	119.8	Regional Biosolids Dryer – AIWWTP Sewer Heat Projects
Resilience	39.7	45.2	5.5	LIWWTP New Influent Conduit and Headworks LIWWTP Power Reliability
Total	\$6,796.1	\$7,438.5	\$642.4	

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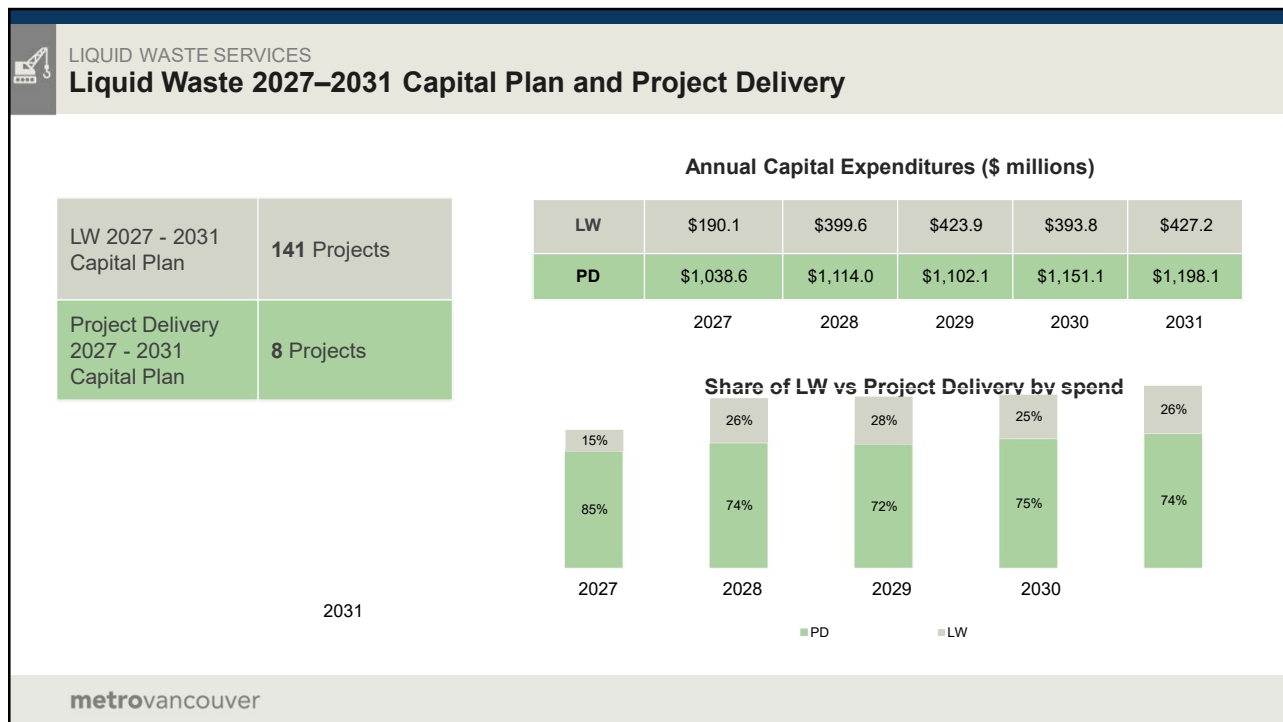
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LIQUID WASTE SERVICES
Financial Plan Summary

	2026	2027	2028	2029	2030	2031
Total Operating Expenditures (\$ Millions)	\$758.5	\$809.6	\$914.6	\$1,037.1	\$1,128.9	\$1,227.3
% Change		6.7%	13.0%	13.4%	8.8%	8.7%
Liquid Waste Service Levy (\$ Millions)	\$611.0	\$631.2	\$680.4	\$744.3	\$816.4	\$880.0
Total Capital Expenditures (\$ Millions)	\$981.4	\$1,228.7	\$1,513.6	\$1,525.9	\$1,545.0	\$1,625.3
Household Impact (\$)	\$534	\$540	\$571	\$608	\$650	\$690
% Change		1.1%	5.7%	6.6%	6.8%	6.2%

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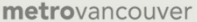
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 LIQUID WASTE SERVICES Financial Plan Summary – Vancouver Sewerage Area (VSA)						
	2026	2027	2028	2029	2030	2031
Total Operating Expenditures (\$ Millions)	\$214.4	\$217.0	\$236.5	\$270.0	\$289.0	\$315.2
% Change		1.2%	9.0%	14.2%	7.0%	9.0%
Liquid Waste Service Levy (\$ Millions)	\$194.6	\$191.3	\$200.4	\$224.6	\$238.7	\$259.4
Total Capital Expenditures (\$ Millions)	\$119.8	\$152.2	\$240.1	\$318.0	\$537.0	\$540.0
Household Impact (\$)	\$661	\$647	\$668	\$732	\$759	\$814
% Change		(2.1%)	3.3%	9.6%	3.7%	7.3%
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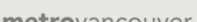
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 LIQUID WASTE SERVICES Financial Plan Summary – North Shore Sewerage Area (NSSA)						
	2026	2027	2028	2029	2030	2031
Total Operating Expenditures (\$ Millions)	\$87.8	\$104.1	\$140.0	\$169.3	\$184.0	\$192.8
% Change		18.6%	34.4%	21.0%	8.6%	4.8%
Liquid Waste Service Levy (\$ Millions)	\$78.3	\$86.7	\$100.6	\$113.9	\$118.2	\$122.1
Total Capital Expenditures (\$ Millions)	\$563.6	\$774.2	\$678.2	\$528.7	\$224.5	\$84.5
Household Impact (\$)	\$952	\$1,042	\$1,193	\$1,330	\$1,357	\$1,386
% Change		9.5%	14.5%	11.4%	2.1%	2.2%
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 LIQUID WASTE SERVICES Financial Plan Summary – Lulu Island West Sewerage Area (LIWSA)						
	2026	2027	2028	2029	2030	2031
Total Operating Expenditures (\$ Millions)	\$56.2	\$60.6	\$65.7	\$69.9	\$73.7	\$78.3
% Change		7.8%	8.4%	6.4%	5.6%	6.1%
Liquid Waste Service Levy (\$ Millions)	\$51.1	\$53.7	\$56.5	\$58.4	\$61.5	\$64.7
Total Capital Expenditures (\$ Millions)	\$45.4	\$34.2	\$52.3	\$62.9	\$55.1	\$26.5
Household Impact (\$)	\$462	\$473	\$491	\$497	\$513	\$532
% Change		2.3%	3.8%	1.3%	3.2%	3.7%
						

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 LIQUID WASTE SERVICES Financial Plan Summary – Fraser Sewerage Area (FSA)						
	2026	2027	2028	2029	2030	2031
Total Operating Expenditures (\$ Millions)	\$396.3	\$424.5	\$468.9	\$524.3	\$578.5	\$637.4
% Change		7.1%	10.5%	11.8%	10.3%	10.2%
Liquid Waste Service Levy (\$ Millions)	\$283.6	\$296.2	\$319.6	\$343.9	\$394.5	\$430.2
Total Capital Expenditures (\$ Millions)	\$250.4	\$264.7	\$538.3	\$616.3	\$728.1	\$974.2
Household Impact (\$)	\$432	\$438	\$462	\$482	\$537	\$576
% Change		1.4%	5.4%	4.5%	11.3%	7.2%
						

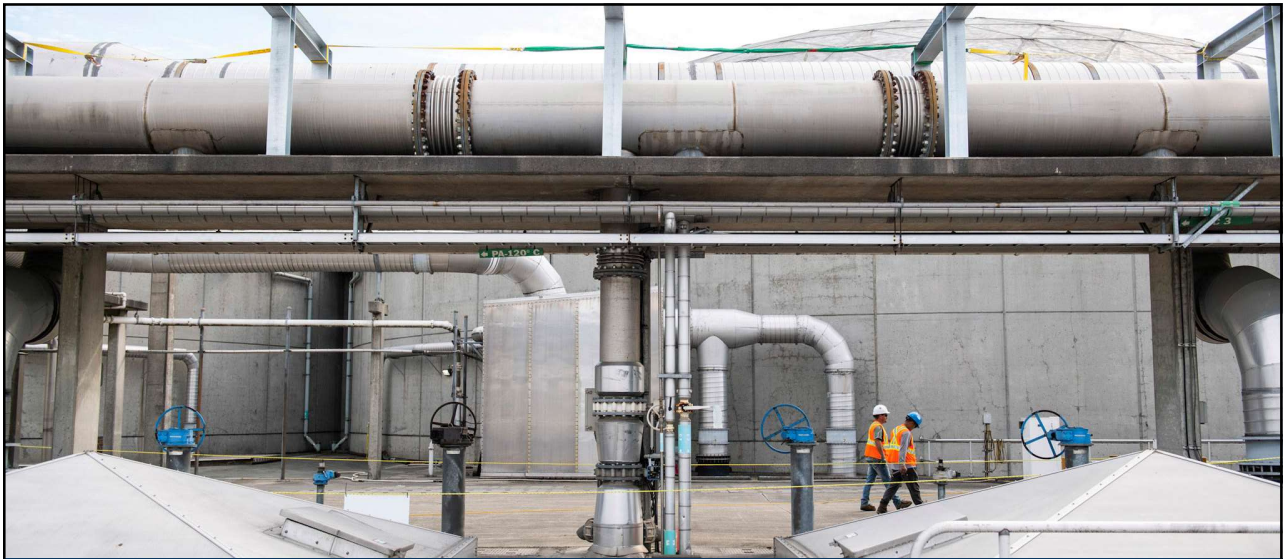
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LIQUID WASTE SERVICES Financial Plan Summary – Drainage						
	2026	2027	2028	2029	2030	2031
Total Operating Expenditures (\$ Millions)	\$3.7	\$3.4	\$3.5	\$3.5	\$3.6	\$3.7
% Change		(7.1)%	1.3%	1.8%	2.5%	1.4%
Liquid Waste Service Levy (\$ Millions)	\$3.4	\$3.3	\$3.3	\$3.4	\$3.5	\$3.6
Total Capital Expenditures (\$ Millions)	\$2.1	\$3.3	\$4.7	\$-	\$0.3	\$-

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Annacis Island Wastewater Treatment Plant

Questions

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To: Liquid Waste Committee

From: Bob Cheng, Acting General Manager, Project Delivery

Date: September 14, 2026

Meeting Date: October 14, 2026

Subject: **2026 Major Capital Projects Update No. 2 – Liquid Waste**

RECOMMENDATION

THAT the GVS&DD Board receive for information the report dated September 14, 2026, titled “2026 Major Capital Projects Update No. 2 – Liquid Waste.”

EXECUTIVE SUMMARY

Metro Vancouver follows best practices related to governance and oversight on all of Metro Vancouver’s capital projects. A key deliverable is to provide regular updates on the portfolio of high value, risk, and consequence capital projects being delivered by the Project Delivery Department.

All of these major projects are on track for schedule and budget for their current project stage with the exception of the Northwest Langley Wastewater Treatment Plant Expansion Program which experienced significant delays due to archaeological permitting challenges that arose in 2023. These are now resolved and pre-construction recommenced in May 2026. These delays are being monitored and will likely impact the budget for the upcoming construction stage. Any changes will be reviewed by the Committee and GVS&DD Board as part of Stage Gate 3 approval in 2028.

PURPOSE

This report is the second of two annual updates on the major liquid waste projects being delivered by the Project Delivery Department.

BACKGROUND

Metro Vancouver is investing in water and wastewater treatment, transmission, and collection system assets with three main objectives:

- Meet provincial and federal regulatory requirements for higher levels of wastewater treatment for discharges to local waterbodies.
- Reinforce the system to enable uninterrupted service delivery through major climate or seismic events and meet growth.
- Sustain the system, ensuring that we can safely and reliably meet the needs of our customers while keeping rates affordable.

Each year, the Metro Vancouver Boards adopt a budget for the upcoming year and endorse a five-year financial plan. Regular updates on capital projects provide information to support good governance of the organization, decision making, project management, and financial oversight. In February 2026, the first of three annual Capital Program updates was provided to the Committees and Boards. In April 2026, the first of three annual Financial Performance Reports was provided to the Boards through the Performance and Audit Committee. This report provides the second of two additional updates on major projects being delivered by the Project Delivery Department. This report is being provided in October 2026 as the September 2026 Liquid Waste Committee meeting was cancelled.

Table 1: Capital Program Reporting

	J	F	M	A	M	J	J	A	S	O	N	D
Capital Program Update		✓					✓				✓	
Additional Major Utility Capital Project Updates					✓				✓			
Financial Performance Report				✓			✓				✓	

INFRASTRUCTURE MARKET UPDATE

British Columbia's major infrastructure market remains active, with significant investment across utilities, transportation, energy, healthcare, and water and wastewater. Near-term demand is expected to remain strong, although conditions will vary by sector, region and project timing. Federal defence spending adds another source of demand, with approximately \$59 billion in defence infrastructure investment anticipated nationally over the next decade. BC projects include the Esquimalt naval jetty replacement and military housing. These investments could increase competition for engineering and construction resources, skilled trades and suppliers serving Metro Vancouver's capital program, depending on project timing, location and resource requirements.

For Metro Vancouver, labour availability, consultant and contractor capacity, tariffs, and supply chain pressures will continue to influence cost, schedule and procurement outcomes. Market feedback indicates that contractors remain selective about large, complex projects and are pricing risk more explicitly. Package size, scope clarity, delivery model, procurement timing and risk allocation remain important factors in attracting bidders and achieving competitive pricing, and ongoing market engagement, realistic schedules and clear responsibilities will help align procurements with available capacity.

PORTFOLIO UPDATE

Across the Project Delivery Department portfolio, projects are progressing through planning, design, construction, and commissioning, reflecting phased delivery aligned with long-term service needs and financial sustainability. Key milestones have been achieved, including completion and commissioning of major wastewater treatment components, substantial progress on several large-diameter water supply tunnels, and delivery of early and enabling works that position future treatment and capacity upgrades.

The portfolio also continues to face challenges inherent to infrastructure of this scale, including complex regulatory and permitting requirements, archaeological considerations, market pressures, and ongoing engagement with First Nations. In response, projects are being re-sequenced or phased where appropriate, with priority placed on regulatory compliance and critical system capacity, while non-essential components are deferred to manage affordability and risk. These challenges are being actively managed through established project management, contingency, and stage-gate governance processes, with regular Board oversight at key decision points.

PROJECT DELIVERY MAJOR PROJECTS UPDATE - LIQUID WASTE

Annacis Island Wastewater Treatment Plant Expansion Program (Stage 5, Digester, Outfall, Biosolids Dryer)

The Annacis Island Wastewater Treatment Plant Expansion Program is being built to accommodate projected population growth, reduce nuisance odours, and improve seismic and climate change-related resiliency. Several key wastewater treatment plant process buildings have been completed and commissioned under Stage 5 of the expansion, resulting in operational benefits to the plant.

Detailed design for the remaining Stage 5 components — including the trickling filters, trickling filter pump station, centrifuges, and maintenance workshop — is progressing. Preliminary design for the new digester and biosolids dryer will begin in mid-2027. Stage gate approvals for each major program component are scheduled between 2027 and 2030 to allow the design and construction phases to proceed. Ground improvement construction for the trickling filters and pump station is expected to begin in Q2-2027, and all program components are expected to be completed by 2035. The outfall is now in service and some remaining on-land civil works will be completed in Q1-2027. Additional information and project updates are available on the project [webpage](#) (Reference 1).

AIWWTP Program (Stage 5, Digester, Outfall, Dryer)		Status
Progress	Preliminary Design (Digester, Biosolids Dryer, 1%) and Detailed Design (Stage 5 Expansion Remaining Works, 60%)	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Stage Gate 1 – Approval to proceed with Design Phase (Biosolids Dryer) Stage Gate 3 – Approval to proceed with Construction Phase (Stage 5 Expansion Remaining Works)	

Iona Island Wastewater Treatment Plant Projects

The Iona Island Wastewater Treatment Plant Projects are being delivered to provide a higher level of treatment to comply with mandatory federal regulations. At the October 3, 2025 GVS&DD Board meeting, the Board approved an alternative approach to prioritize the incremental delivery of secondary treatment to meet regulatory requirements. Components not required for secondary treatment are to be deferred into the future. As a result, an updated project cost estimate of \$6B was integrated into the 2026 Budget and 2026–2030 Five-Year Financial Plan.

The project continues to deliver Phase 1 early and enabling works, supported by one-third funding from the Province of British Columbia and one-third funding from the federal government. Staff are currently engaging with the Province on aligning federal and provincial wastewater effluent regulations and completing preliminary design for the treatment plant.

Decommissioning of the northeast and southeast sludge lagoons is complete. The southeast lagoon is being infilled to support construction of the new treatment plant and construction of a standby power system for the existing primary plant and transition to a new BC Hydro service. Rehabilitation of the existing primary plant is underway, along with procurement of electrical equipment and detailed design. Additional information and project updates are available on the project [webpage](#) (Reference 2).

Iona Island Wastewater Treatment Plant Projects		Status
Progress	Preliminary Design (including early works) 11% complete	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Stage Gate 2- Approval to proceed with Detailed Design	

Northwest Langley Wastewater Treatment Plant Expansion Program

The Northwest Langley Wastewater Treatment Plant Expansion Program is being built to accommodate population growth, reduce nuisance odours, and improve seismic and climate change-related resiliency. The program includes four components: the Golden Ears Pump Station and Storage Tank, completed in 2024; the Fraser River Crossing, completed in 2025; the wastewater treatment plant expansion, which is nearing completion of detailed design; and the replacement outfall, which is undergoing an environmental impact study.

The Program schedule was negatively impacted by archaeological permitting challenges identified in 2023, following the completion of extensive archaeological investigations that began in 2020. This issue has been resolved and the impacts on the budget are being monitored. Pre-construction recommenced in May 2026 and is ongoing to prepare for construction of the wastewater treatment plant that is set to commence in 2028.

Metro Vancouver will continue to monitor the schedule impacts and associated budget implications, for which the GVS&DD Board will receive an update at the next Stage Gate 3 to seek approval to proceed to construction. The program's forecasted completion date is 2036. Additional information and project updates are available on the project [webpage](#) (Reference 3).

Northwest Langley Wastewater Treatment Plant Expansion Program		Status
Progress	Detailed Design approximately 90% complete	
Schedule	Schedule impacted by archaeological permitting challenges that have been resolved	
Budget	On budget (endorsed at Stage Gate 2) - reviewing impact due to schedule delay and market feedback	
Next Milestone	Stage Gate 3 – Approval to proceed with construction	

North Shore Wastewater Treatment Plant Program

The North Shore Wastewater Treatment Plant is being built to meet federal regulatory requirements and will replace the existing primary treatment Lions Gate Wastewater Treatment Plant. It will serve over 300,000 residents and businesses on the North Shore and provide treatment to the tertiary filtration level to better protect the environment. Also included in the program are:

- The pump station and sewer pipes to serve the new plant (the Conveyance Project). A significant portion of construction of these works is largely complete, with the remaining final works to be completed following completion of the treatment plant.
- The preliminary design for decommissioning the existing Lions Gate Wastewater Treatment Plant. This planning work will occur in the coming years.

In 2024, the GVS&DD Board approved a budget reset with an updated program cost estimate of \$3.86B and awarded a contract to complete construction of the plant. The program is progressing through construction and is on track to be delivered within the approved budget and schedule.

In May 2026, the lawsuits between GVS&DD and ACCIONA were resolved through a mediated settlement with ACCIONA providing \$235 million to the GVS&DD. With the litigation now resolved, an Independent Review of the NSWWTP Program is now proceeding, with a report to the GVS&DD Board expected in early 2027.

Monthly updates are provided to the public on the program [webpage](#) (Reference 4).

North Shore Wastewater Treatment Plant Program		Status
Progress	Construction. The overall program is approximately 25% complete	
Schedule	On schedule	
Budget	On budget	
Next Milestone	Stage Gate 4- Close-out	

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

As part of the capital planning process, the timing of each project is reviewed and updated annually based on available resources, strategic prioritization, risk to system operations, and financial sustainability. Each project is subject to its own cost review on a regular basis, as well as regular stage gate approvals. Project-specific reports will be provided as warranted to provide greater detail and address any required changes to project scope, schedule, or budget.

OTHER IMPLICATIONS

This information has also been provided to the Regional Engineers Advisory Committee as part of Metro Vancouver's commitment to providing regular capital program updates to its members.

CONCLUSION

This report provides a status update on the major liquid waste projects being delivered by the Project Delivery Department. These updates are provided twice a year in May and September. This report is being provided in October 2026 as the September 2026 Liquid Waste Committee meeting was cancelled. Individual project reports will continue to be provided as needed, particularly at key decision-making milestones.

REFERENCES

1. Metro Vancouver, Annacis Island Wastewater Treatment Plant. metrovancover.org/services/liquid-waste/annacis-island-wastewater-treatment-plant
2. Metro Vancouver, Iona Island Wastewater Treatment Plant Projects. metrovancover.org/services/liquid-waste/iona-island-wastewater-treatment-plant-projects
3. Metro Vancouver, Northwest Langley Wastewater Treatment Plant Expansion Program. metrovancover.org/services/liquid-waste/northwest-langley-wastewater-treatment-projects
4. Metro Vancouver, North Shore Wastewater Treatment Plant Program. metrovancover.org/services/liquid-waste/north-shore-wastewater-treatment-plant-project

To: Liquid Waste Committee

From: Colin Meldrum, Director Engineering, Design and Construction, Liquid Waste Services

Date: September 16, 2026

Meeting Date: October 14, 2026

Subject: **Value Engineering for Liquid Waste Infrastructure Growth Projects**

RECOMMENDATION

THAT the GVS&DD Board receive for information the report titled “Value Engineering for Liquid Waste Infrastructure Growth Projects” dated September 16, 2026.

EXECUTIVE SUMMARY

Value engineering reviews evaluate the whole-life value of infrastructure projects by considering capital and operating costs, constructability, schedule, environmental and social impacts, system reliability and resilience, and project risks. Value engineering is applied throughout the planning and design stages of all Metro Vancouver capital projects. In-house engineering and technical expertise, supplemented by external specialists where appropriate, enable staff to critically review and critique consultant-developed concepts and designs. Formal, independently facilitated studies are required for projects classified as high value, risk, and consequence.

This report identifies current liquid waste infrastructure growth projects valued over \$10 million in planning, design, and construction and summarizes the value exercises completed or planned to support cost-effective project delivery.

A commensurate report is being presented to the GVWD. The approach to value engineering is consistent between the two utilities.

PURPOSE

This report responds to the April 15, 2026 GVS&DD Board resolution regarding value engineering on liquid waste and water capital projects over \$10 million.

BACKGROUND

At its April 15, 2026 meetings, both the GVWD and GVS&DD Boards passed resolutions directing staff “to conduct independent value engineering to all water and liquid waste infrastructure growth projects over \$10M and to report back to advisory committees and the GVWD and GVS&DD Boards”. This report responds to that direction. A commensurate report is being presented to the GVS&DD Board. The approach to value engineering is consistent between the two utilities.

VALUE ENGINEERING

Value engineering (VE) is a systematic process that evaluates alternative solutions or approaches to achieve required project functions at the optimum balance of cost, performance, reliability, constructability, sustainability, and lifecycle value. The goal is not to make a project cheaper, but rather to determine whether the required functionality can be delivered more effectively through alternative designs, materials, methods, phasing, or operating strategies.

VE may not result in a reduction in initial capital cost. In some cases, the option that provides the best overall value may have a higher initial cost but lower operating, maintenance, rehabilitation, or

replacement costs over the life of the asset. For example, selecting more durable materials or equipment may increase initial capital costs while extending service life and reducing future maintenance and replacement requirements. VE therefore considers whole-life value rather than capital cost alone.

Although the subject of this report is on growth projects, the processes described are applied to all capital projects. For liquid waste infrastructure, VE might examine questions such as:

- Can the same treatment capacity be achieved with a different process arrangement?
- Is there a more constructible alignment for conveyance infrastructure that reduces risk and schedule impacts?
- Can a different material provide the same or longer service life at lower lifecycle cost?
- Can equipment layout be reconfigured to reduce construction cost or improve operability?
- Can construction sequencing reduce disruption to operations or the public?

Value Engineering Approach at Metro Vancouver

At Metro Vancouver, VE is embedded throughout the project lifecycle – but provides the most value during planning and preliminary design when the team can still influence scope, alignment, design criteria, delivery strategy, and major systems without creating costly redesign. The process begins with clear project objectives including requirements for safety, performance, regulatory compliance, environmental commitments, resilience, and stakeholder outcomes as well as compliance with organizational policies. This approach keeps VE focused on improving value rather than simply reducing initial capital cost.

Metro Vancouver's staff have specialized knowledge of the regional wastewater system, its operating requirements, design standards, infrastructure performance, and lessons learned from previous projects. Metro Vancouver, as an informed owner, can critically review and critique consultant-developed concepts and designs. Rather than relying on discrete externally facilitated VE studies, value review can occur continuously through the Standard and Progressive VE processes described below. External specialists and formal independent VE studies provide an additional level of challenge and perspective where warranted by project value, risk, complexity, or consequence.

Standard Value Engineering Reviews

Standard VE reviews on most projects include:

- **Options Evaluation** – early review of project scope to identify alternate ways of achieving project objectives. This includes evaluation of alternative alignments for linear works.
- **Internal Review Processes** – standard independent internal review process normally conducted at 30%, 60% and 90% design completion by Metro Vancouver engineering, operations and maintenance staff as part of design review process to ensure designs are aligned with project requirements and internal standards, specifications and processes.
- **Management Risk Review** – project design review conducted by Metro Vancouver staff and management at critical stages to identify potential technical, constructability, market condition or other risks that could negatively impact the project. This is a required element in all internal stage gate reviews.

A recent example where Standard VE reviews were demonstrated is the Lulu Island Wastewater Treatment Plant Gravity Thickener. The preliminary foundation design appeared to be excessive, and after review with senior structural and geotechnical engineering staff, a more appropriate design criteria for the facility was recommended.

Progressive Value Engineering Reviews

Progressive VE review elements are implemented as and when appropriate, and usually include the following elements:

- **Engineering options cost analysis** – formal evaluation of various design options or comparison of initial versus long-term costs impacts of multiple design solutions.
- **Vendor review** – market sounding of multiple vendors to assess product availability and budget pricing for critical equipment supply.
- **Constructability Review** – formal evaluation typically with internal construction experts or a third-party contractor to review designs to identify construction cost, work sequencing, and schedule savings.
- **Technical subject matter expert (SME) review** – MV SME's (structural, electrical, civil, mechanical) complete reviews that identify design issues that have potential to lead to claims during construction. The reviews also identify opportunities for design efficiencies that lead to a lower construction cost.
- **Early contractor involvement or alternative delivery strategies** - where the contractor is retained during the design to provide detailed input into design elements and their impact on construction cost, means and methods.

These Progressive VE review elements are used in the following examples:

- **Royal Avenue Pump Station:** The pre-purchase of key electrical equipment provided schedule certainty and removed risk from the installation contractor.
- **North Surrey Interceptor Sanitary Sewer Overflow Tank Project:** The Construction Manager at Risk delivery model brought the contractor on board during the design phase to provide detailed constructability reviews and identify cost reduction scenarios.
- **Gleneagles Pump Station 1 and 2:** Identified alternate pump models and configurations at Gleneagles Pump Station 1 that eliminated the need for Gleneagles Pump Station 2, resulting in both capital and operations cost savings.

Formal Value Engineering Reviews

A Formal VE review is a rigorous, less-frequent process that involves facilitated multi-day workshops with independent third-party consultants, the design team, and operations and maintenance staff to review designs for constructability, cost, and schedule savings, or to confirm construction sequence/approach and recommend design improvements for construction efficiency. This is mandatory for all high value, risk, or consequence projects, and implemented for other projects as and when appropriate. It may occur in phases during a project lifecycle. Formal VE complements the ongoing value optimization undertaken by Metro Vancouver staff and project teams throughout project development.

Formal VE reviews have been implemented on the following projects:

- **Northwest Langley WWTP Expansion Program:** The 2022 VE exercise focused on potential design-related cost savings — simplifying the design, evaluating processes with a smaller footprint, and re-examining the geotechnical and foundation criteria. Different secondary treatment options were evaluated. Cost savings of \$300M were identified through these exercises.
- **Port Coquitlam Pump Station Refurbishment Project:** VE identified options to make the station shallower and to simplify piping configurations, all of which are currently under review.

Opportunities and Application of Value Engineering

The above VE activities can lend themselves differently to various types of projects, and the technical challenges those projects face. For linear projects (sewers), the end points of the lines are normally

fixed, and the size of the line is a function of the future capacity requirements. VE opportunities are more limited and focus on material selection, alignment, and tunnelling versus open trench construction methods, in an effort to improve long-term reliability and avoid costly pumping. For vertical facilities (pump stations and treatment works), there are more alternatives to explore through a Formal VE process.

Tables 1 and 2 below summarize all Liquid Waste capital growth projects with project estimates greater than \$10M and the activities undertaken (or planned) to optimize value for money for these projects. Table 1 specifically addresses projects not yet in construction, when VE is still feasible. Table 2 specifically addresses projects in construction or where the main construction contract is complete, and it identifies the high-level VE activities taken prior to construction.

Table 1: Liquid Waste Growth Capital Projects >\$10M in Pre-Construction Phases

Name	Active Phase	Project Estimate (M\$)	Value Exercise
Northwest Langley WWTP Expansion Program	Multiple	2,281	Formal
Annacis Island WWTP Stage 5 Expansion	Multiple	1,340	Formal
South Surrey Interceptor & North Surrey Interceptor - Fraser River Crossing	Options Evaluation	632	To be determined
Annacis Island WWTP Digester No. 9 & 10 (formerly Digester No. 5)	Design	470	Formal
North Surrey Interceptor Twinning	Multiple	249	Standard and Progressive. Future phases to be determined.
104th Ave Pump Station and Forcemain for Redirection to Northwest Langley WWTP	Pre Design	125	Formal will be conducted, Standard and Progressive elements as and when appropriate
Cloverdale Pump Station Capacity Upgrade	Multiple	88	Standard and Progressive Formal will be evaluated for future phases
Stoney Creek Sanitary Trunk Sewer	Multiple	70	Standard
Cloverdale Trunk Sewer Capacity Upgrade	Not Started	39	To be determined
Port Moody Pump Station Capacity Upgrade	Pre Design	24	Standard, and Progressive Formal will be evaluated
Burnaby South Slope Interceptor	Not Started	23	To be determined
White Rock Pump Station Upgrades	Pre Design	15	Standard and Progressive elements
Rosemary Heights Pressure Sewer Capacity Upgrade	Not Started	11	To be determined

Table 2: Liquid Waste Growth Capital Projects >\$10M in Construction Phase

Name	Project Estimate (\$M)	Value Exercise
Annacis Outfall System	356	Standard and Progressive
Burnaby Lake North Interceptor Winston Section	112	Standard and Progressive
South Surrey Interceptor Johnston Section	98	Standard and Progressive
Sapperton Pump Station	96	Formal
Marshend Pump Station	34	Standard and Progressive
North Road Trunk Sewer	24	Standard
Annacis Influent System Surge Control Refurbishment	22	Standard
Annacis Island WWTP Stage 5 Expansion - Optimization Works	13	Standard

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

VE can create financial savings when it is implemented early — with greater impact during planning and preliminary design when there is opportunity to influence scope, alignment, design criteria, delivery strategy, and major systems without creating costly redesign.

The financial benefit of VE is not limited to reductions in initial capital cost. In some cases, a VE review may support a higher initial investment where it results in longer asset life, improved reliability, reduced operating or maintenance requirements, lower replacement costs, or reduced risk over the life of the infrastructure. Accordingly, the preferred solution arising from a VE process may increase the initial project cost while reducing the total lifecycle cost of providing the required service.

Metro Vancouver works closely with its design consultants to balance environmental, social and cost factors throughout the preliminary and detailed design phases of all capital projects. Formal VE workshops are conducted where the cost is deemed appropriate for the project scope, scale and complexity.

OTHER IMPLICATIONS

The approach to value engineering is consistent between Liquid Waste Services and Water Services. A similar report is being presented to the GVWD Board.

CONCLUSION

Metro Vancouver applies value engineering throughout the development of liquid waste infrastructure projects to improve whole-life value while maintaining required performance, reliability, resilience, and stakeholder outcomes. The objective may not be to minimize initial capital cost, but to identify solutions that provide the best overall value over the life of the infrastructure. A key strength of this approach is Metro Vancouver's in-house engineering and subject matter expertise, which provides the technical knowledge and understanding of the regional wastewater system needed to critically review and critique project concepts and consultant-developed designs. This allows value engineering to occur

continuously through Standard and Progressive VE processes, rather than being limited to discrete formal reviews.

Formal independent VE studies and external expertise provide an additional level of rigour and perspective and are required for high value, high risk, and complex projects, with other projects subject to VE reviews suited to their scope and risk. Together, these approaches support informed owner decision-making and the cost-effective, resilient, and responsible delivery of the regional liquid waste capital program.

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To: Liquid Waste Committee

From: Dana Zheng, Program Manager, Policy Planning and Analysis, Liquid Waste Services

Date: September 30, 2026 Meeting Date: October 14, 2026

Subject: **Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026**

RECOMMENDATION

THAT the GVS&DD Board:

- a) give first, second and third readings to *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026*; and
 - b) adopt *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026*.
-

EXECUTIVE SUMMARY

Notices of bylaw violation (NBVs) are financial penalties issued for minor bylaw contraventions to promote compliance. After the provincial government granted GVS&DD the ability to issue NBVs in 2023, the Board adopted the *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw No. 378, 2024*. This Bylaw defines contraventions and commensurate financial penalties for GVS&DD's six existing liquid waste bylaws.

Increased penalty amounts are proposed for select notices of bylaw violation to address feedback received from the Liquid Waste Committee in January 2026 and to align with penalty amounts for air quality NBVs updated in June 2026. The proposed amendments rank the severity of contraventions as minor, moderate, and serious, and increase the penalty amounts to \$300, \$400, and \$500, respectively. The amendments enhance the effectiveness of NBVs as a compliance and enforcement tool, while remaining within the \$500 maximum set by provincial legislation.

PURPOSE

To seek GVS&DD Board adoption of *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026*.

BACKGROUND

At its January 21, 2026 regular meeting, the Liquid Waste Committee requested that staff review penalty amounts for appropriateness and report back to the Committee.

In June 2026, the MVRD Board adopted amendments to the *GVRD Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw No. 1117, 2010* (GVRD Bylaw No. 1117, 2010). These amendments increased penalty amounts to enhance the effectiveness of NBVs for addressing air quality bylaw contraventions.

This report proposes amendments to NBV penalty amounts to improve the effectiveness of enforcing liquid waste bylaws and to align with other Metro Vancouver enforcement programs.

**Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication
Amendment Bylaw No. 406, 2026**

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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NOTICES OF BYLAW VIOLATION AS A COMPLIANCE TOOL

In 2023, the provincial government added the GVS&DD to the *Bylaw Notice Enforcement Regulation, BC Reg. 175/2004*, which authorized GVS&DD to enact NBV enforcement and dispute adjudication bylaws. Prior to this, the only enforcement actions available to GVS&DD were warnings and prosecution through the court system. The provincial regulation limits NBV penalty amounts to a maximum of \$500 per contravention.

Adopted in 2024, the *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw 378, 2024*, as amended (Bylaw 378) authorizes the issuance of NBVs for designated bylaw contraventions of GVS&DD's six liquid waste bylaws. These bylaws regulate discharges to the Metro Vancouver wastewater system, including from permitted industrial dischargers, food sector establishments, hospitals, fermentation operations, trucked liquid waste, and recreational vehicle sani-dumps. Since the adoption of Bylaw 378 by GVS&DD, NBVs have resulted in some behaviour change; however, in some circumstances the penalty amounts have been insufficient to offset the financial benefit of continued non-compliance for the regulated sector.

Proposed Bylaw Amendments

Staff reviewed the NBV penalty amounts for appropriateness and propose amendments to more accurately reflect the severity of contraventions, prevent NBVs from becoming considered part of the cost of doing business, and motivate regulated sectors to comply with liquid waste bylaws. The proposed *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026* updates Schedules A to F (**Attachment 1**) with penalty increases for designated contraventions of liquid waste bylaws. A marked-up copy of sections of the current bylaw that highlights the proposed changes is included for reference (**Attachment 2**).

The proposed amendments simplify the severity ranking of contraventions and increase the penalty amounts. The updated penalties are \$300 for minor contraventions, \$400 for moderate contraventions, and \$500 for serious contraventions. Discounted and late-payment penalties, used to encourage timely payment, have also been updated accordingly. These amounts better reflect the severity of contraventions while remaining within the provincial \$500 maximum. The intent is to improve the ability of penalties to deter non-compliance and ensure that non-compliance is not viewed as a financially viable option.

The proposed amendments to penalty amounts in Bylaw 378 align with the penalty amounts for air quality NBVs in GVRD Bylaw No. 1117, 2010, providing consistency across Metro Vancouver's enforcement programs.

Provincial Limit for Bylaw Notice Penalties

The maximum penalty for a bylaw notice under the *Local Government Bylaw Notice Enforcement Act* has remained \$500 since its introduction in 2003. Higher penalty amounts for certain liquid waste bylaw contraventions would likely improve compliance. However, the GVS&DD is not authorized to set penalties beyond the \$500 maximum. Increasing this maximum would require the Province to amend the *Local Government Bylaw Notice Enforcement Act* and/or its regulations.

**Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication
Amendment Bylaw No. 406, 2026**

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) give first, second and third readings to *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw 406, 2026*; and
 - b) pass the *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw 406, 2026*.
2. THAT the GVS&DD Board receive for information the report dated September 30, 2026, titled "*Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw 406, 2026*".

FINANCIAL IMPLICATIONS

The purpose of increasing penalties is to strengthen deterrence rather than to generate additional revenue. Although the proposed amendments designate higher penalty amounts, minimal revenue impacts are expected as NBVs are issued relatively infrequently.

CONCLUSION

The proposed amendments increase penalty amounts for designated bylaw contraventions of GVS&DD's six liquid waste bylaws. These increased penalties enhance the effectiveness of NBVs as a compliance and enforcement tool. Staff recommend Alternative 1.

ATTACHMENTS

1. *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026*.
2. *Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw 378, 2024, - blackline version - Schedules A to F*.

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**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 406, 2026**

**A bylaw to amend Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation
Enforcement and Dispute Adjudication Bylaw No. 378, 2024**

WHEREAS:

- A. The Board of the Greater Vancouver Sewerage and Drainage District has adopted Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw No. 378, 2024; and
- B. The Board of the Greater Vancouver Sewerage and Drainage District wishes to amend Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw No. 378, 2024.

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

Citation

1. The official citation of this bylaw is “Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Amendment Bylaw No. 406, 2026”.

Schedules

2. The following schedules are attached to and form part of this bylaw:
 - Schedule A, Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007, as amended;
 - Schedule B, Greater Vancouver Sewerage and Drainage District Food Sector Grease Interceptor Bylaw No. 365, 2023;
 - Schedule C, Hospital Pollution Prevention Bylaw No. 319, 2018, as amended;
 - Schedule D, Greater Vancouver Sewerage and Drainage District Fermentation Operations Bylaw No. 294, 2015, as amended;
 - Schedule E, Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Bylaw No. 345, 2021, as amended; and
 - Schedule F, Greater Vancouver Sewerage and Drainage District Sani-dump Bylaw No. 346, 2021.

Amendment of Bylaw

3. “Greater Vancouver Sewerage and Drainage District Notice of Bylaw Violation Enforcement and Dispute Adjudication Bylaw No. 378, 2024” is amended as follows:
 - (a) Schedule A is replaced with Schedule A of this bylaw.
 - (b) Schedule B is replaced with Schedule B of this bylaw.
 - (c) Schedule C is replaced with Schedule C of this bylaw.
 - (d) Schedule D is replaced with Schedule D of this bylaw.

- (e) Schedule E is replaced with Schedule E of this bylaw.
- (f) Schedule F is replaced with Schedule F of this bylaw.

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

Adopted this _____ day of _____, _____.

Mike Hurley, Chair

Dorothy Shermer, Corporate Officer

Schedule A

Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007, as amended

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
5.3 (a)	Violation of permit discharge quantity limit	\$400	\$500	\$500	No
5.3 (a)	Violation of permit discharge composition restriction	\$400	\$500	\$500	No
5.3 (a)	Violation of permit discharge frequency restriction	\$400	\$500	\$500	No
5.3 (c)	Violation of permit monitoring requirement	\$200	\$300	\$500	No
5.3 (c)	Violation of permit record keeping requirement	\$200	\$300	\$500	No
5.3 (c)	Failure to provide information	\$200	\$300	\$500	Yes
5.5	Failure to apply for a permit as ordered	\$400	\$500	\$500	No
5.6	Failure to provide information	\$200	\$300	\$500	Yes
5.6	Failure to provide drawing	\$200	\$300	\$500	Yes
5.6	Failure to provide specification	\$200	\$300	\$500	Yes
5.9	Violation of a reporting requirement	\$200	\$300	\$500	Yes
5.9 (a)	Violation of a reporting requirement	\$200	\$300	\$500	Yes
5.9 (b)	Violation of a reporting requirement	\$200	\$300	\$500	Yes
5.9 (c)	Violation of a reporting requirement	\$200	\$300	\$500	Yes
5.9 (d)	Violation of a reporting requirement	\$200	\$300	\$500	Yes
5.9 (e)	Violation of a reporting requirement	\$200	\$300	\$500	Yes
8.1	Violation of a monitoring requirement	\$200	\$300	\$500	No
8.2	Failure to install or maintain monitoring point	\$300	\$400	\$500	Yes
12.1	Tampering with any manhole cover or other appurtenance	\$400	\$500	\$500	No

Schedule B

Greater Vancouver Sewerage and Drainage District Food Sector Grease Interceptor Bylaw No. 365, 2023

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8.1	Failure to use a grease interceptor	\$400	\$500	\$500	Yes
8.2	Failure to connect a grease bearing fixture	\$200	\$300	\$500	Yes
8.6	Inaccessible grease interceptor	\$200	\$300	\$500	Yes
9.1(a), 9.1(b)	Failure to provide requested information	\$200	\$300	\$500	Yes
10.2(a), 10.2(b)	Failure to maintain grease interceptor as required	\$400	\$500	\$500	No
11.1(a), 11.1 (b)	Violation of record keeping requirement	\$200	\$300	\$500	No
11.1(c)	Failure to provide requested records	\$200	\$300	\$500	Yes
12.1	Failure to pay fee as required	\$200	\$300	\$500	Yes

Schedule C

Hospital Pollution Prevention Bylaw No. 319, 2018, as amended

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8	Failure to submit a hospital pollution prevention plan as required	\$400	\$500	\$500	Yes
11	Failure to submit annual report	\$200	\$300	\$500	Yes
15	Failure to amend and resubmit a pollution prevention plan within the specified timeframe	\$200	\$300	\$500	Yes
19	Failure to amend plan to include any discharges of wastes listed in Part 2	\$200	\$300	\$500	Yes
22(a), 22(b)	Failure to pay annual fee	\$200	\$300	\$500	Yes

Schedule D

Greater Vancouver Sewerage and Drainage District Fermentation Operations Bylaw No. 294, 2015, as amended

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8 (b)	Discharge of total suspended solids in excess of 1,200 mg/L	\$400	\$500	\$500	No
9	Discharge of wastewater with pH lower than 5.5 or higher than 10.5	\$400	\$500	\$500	No
11	Failure to install sampling point	\$300	\$400	\$500	Yes
12	Inaccessible sampling point	\$300	\$400	\$500	Yes
17 (a)	Failure to keep production records	\$200	\$300	\$500	No
17 (c)	Failure to keep records	\$200	\$300	\$500	No
18 (a)	Failure to keep records for 2 years	\$200	\$300	\$500	No
18 (b)	Failure to provide requested records	\$200	\$300	\$500	Yes
18 (c)	Failure to submit records as required	\$200	\$300	\$500	Yes
19 (a), 19 (b)	Failure to pay administration fee	\$200	\$300	\$500	Yes
20	Failure to pay treatment fee	\$200	\$300	\$500	Yes
23	Unauthorized discharge	\$400	\$500	\$500	Yes

Schedule E

Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste Bylaw No. 345, 2021, as amended

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
7	Discharge at a facility not designated for trucked liquid waste	\$400	\$500	\$500	No
7.1 (a)	Unauthorized Non-Domestic Waste discharge	\$400	\$500	\$500	No
8	Discharge without valid credit privileges	\$400	\$500	\$500	No
12	Discharge without "out-of-region discharge number" as required	\$400	\$500	\$500	No
15.1 (a)	Discharge of any waste other than holding tank domestic waste generated within Township of Langley	\$400	\$500	\$500	No
26	Failure to submit manifest containing required information	\$200	\$300	\$500	Yes
27	Failure to pay discharge fee	\$200	\$300	\$500	Yes

Schedule F

Greater Vancouver Sewerage and Drainage District Sani-dump Bylaw No. 346, 2021

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8(a)	Failure to register as required	\$200	\$300	\$500	Yes
8(b)	Failure to pay registration fee	\$200	\$300	\$500	Yes
9	Failure to post registration	\$200	\$300	\$500	Yes
11	Failure to provide requested information	\$200	\$300	\$500	Yes
12 (d), 12 (e)	Failure to post required signage	\$200	\$300	\$500	Yes
12(g)	Failure to provide access	\$300	\$400	\$500	No



GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT BYLAW NO. 378, 2024

BLACKLINE VERSION Schedules A through F

As of July 15, 2026

Schedule A

Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007, as amended

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
5.3 (a)	Violation of permit discharge quantity limit	~~\$400~~ ~~\$375~~	\$500	\$500	No
5.3 (a)	Violation of permit discharge composition restriction	~~\$400~~ ~~\$375~~	\$500	\$500	No
5.3 (a)	Violation of permit discharge frequency restriction	~~\$400~~ ~~\$375~~	\$500	\$500	No
5.3 (c)	Violation of permit monitoring requirement	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	No
5.3 (c)	Violation of permit record keeping requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	No
5.3 (c)	Failure to provide information	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.5	Failure to apply for a permit as ordered	~~\$400~~ ~~\$375~~	\$500	~~\$500~~	No
5.6	Failure to provide information	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.6	Failure to provide drawing	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.6	Failure to provide specification	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.9	Violation of a reporting requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.9 (a)	Violation of a reporting requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.9 (b)	Violation of a reporting requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.9 (c)	Violation of a reporting requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.9 (d)	Violation of a reporting requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
5.9 (e)	Violation of a reporting requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
8.1	Violation of a monitoring requirement	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	No
8.2	Failure to install or maintain monitoring point	~~\$300~~ ~~\$290~~	~~\$400~~ ~~\$375~~	~~\$500~~ ~~\$460~~	Yes
12.1	Tampering with any manhole cover or other appurtenance	~~\$400~~ ~~\$375~~	\$500	\$500	No

Schedule B

Greater Vancouver Sewerage and Drainage District Food Sector Grease Interceptor Bylaw No. 365, 2023

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8.1	Failure to use a grease interceptor	~~\$400~~ ~~\$375~~	\$500	\$500	Yes
8.2	Failure to connect a grease bearing fixture	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	Yes
8.6	Inaccessible grease interceptor	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	Yes
9.1(a), 9.1(b)	Failure to provide requested information	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
10.2(a), 10.2(b)	Failure to maintain grease interceptor as required	~~\$400~~ ~~\$375~~	\$500	\$500	No
11.1(a), 11.1 (b)	Violation of record keeping requirement	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	No
11.1(c)	Failure to provide requested records	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	Yes
12.1	Failure to pay fee as required	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	Yes

Schedule C

Hospital Pollution Prevention Bylaw No. 319, 2018, as amended

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8	Failure to submit a hospital pollution prevention plan as required	<u>\$400</u> ~~\$375~~	\$500	\$500	Yes
11	Failure to submit annual report	<u>\$200</u> ~~\$95~~	<u>\$300</u> ~~\$125~~	<u>\$500</u> ~~\$155~~	Yes
15	Failure to amend and resubmit a pollution prevention plan within the specified timeframe	<u>\$200</u> ~~\$95~~	<u>\$300</u> ~~\$125~~	<u>\$500</u> ~~\$155~~	Yes
19	Failure to amend plan to include any discharges of wastes listed in Part 2	<u>\$200</u> ~~\$95~~	<u>\$300</u> ~~\$125~~	<u>\$500</u> ~~\$155~~	Yes
22(a), 22(b)	Failure to pay annual fee	<u>\$200</u> ~~\$190~~	<u>\$300</u> ~~\$250~~	<u>\$500</u> ~~\$310~~	Yes

Schedule D

Greater Vancouver Sewerage and Drainage District Fermentation Operations Bylaw No. 294, 2015, as amended

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8 (b)	Discharge of total suspended solids in excess of 1,200 mg/L	~~\$400~~ ~~\$375~~	\$500	\$500	No
9	Discharge of wastewater with pH lower than 5.5 or higher than 10.5	~~\$400~~ ~~\$375~~	\$500	\$500	No
11	Failure to install sampling point	~~\$300~~ ~~\$290~~	~~\$400~~ ~~\$375~~	~~\$500~~ ~~\$460~~	Yes
12	Inaccessible sampling point	~~\$300~~ ~~\$290~~	~~\$400~~ ~~\$375~~	~~\$500~~ ~~\$460~~	Yes
17 (a)	Failure to keep production records	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	No
17 (c)	Failure to keep records	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	No
18 (a)	Failure to keep records for 2 years	~~\$200~~ ~~\$95~~	~~\$300~~ ~~\$125~~	~~\$500~~ ~~\$155~~	No
18 (b)	Failure to provide requested records	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	Yes
18 (c)	Failure to submit records as required	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	Yes
19 (a), 19 (b)	Failure to pay administration fee	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	Yes
20	Failure to pay treatment fee	~~\$200~~ ~~\$190~~	~~\$300~~ ~~\$250~~	~~\$500~~ ~~\$310~~	Yes
23	Unauthorized discharge	~~\$400~~ ~~\$375~~	\$500	\$500	Yes

Schedule E

***Greater Vancouver Sewerage and Drainage District Trucked Liquid Waste
Bylaw No. 345, 2021, as amended***

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
7	Discharge at a facility not designated for trucked liquid waste	<u>\$400</u> ~~\$375~~	\$500	\$500	No
7.1 (a)	Unauthorized Non-Domestic Waste discharge	<u>\$400</u> ~~\$375~~	\$500	\$500	No
8	Discharge without valid credit privileges	<u>\$400</u> ~~\$375~~	\$500	\$500	No
12	Discharge without "out-of-region discharge number" as required	<u>\$400</u> ~~\$375~~	\$500	\$500	No
15.1 (a)	Discharge of any waste other than holding tank domestic waste generated within Township of Langley	<u>\$400</u> ~~\$375~~	\$500	\$500	No
26	Failure to submit manifest containing required information	<u>\$200</u> ~~\$190~~	<u>\$300</u> ~~\$250~~	<u>\$500</u> ~~\$310~~	Yes
27	Failure to pay discharge fee	<u>\$200</u> ~~\$190~~	<u>\$300</u> ~~\$250~~	<u>\$500</u> ~~\$310~~	Yes

Greater Vancouver Sewerage and Drainage District Sani-dump Bylaw No. 346, 2021

Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Section	Authorized Words or Expressions	Discounted Penalty	Penalty	Late Payment Penalty	Compliance Agreement Available
8(a)	Failure to register as required	<u>\$200</u> ~~\$190~~	<u>\$300</u> ~~\$250~~	<u>\$500</u> ~~\$340~~	Yes
8(b)	Failure to pay registration fee	<u>\$200</u> ~~\$190~~	<u>\$300</u> ~~\$250~~	<u>\$500</u> ~~\$340~~	Yes
9	Failure to post registration	<u>\$200</u> ~~\$190~~	<u>\$300</u> ~~\$250~~	<u>\$500</u> ~~\$340~~	Yes
11	Failure to provide requested information	<u>\$200</u> ~~\$95~~	<u>\$300</u> ~~\$125~~	<u>\$500</u> ~~\$155~~	Yes
12 (d), 12 (e)	Failure to post required signage	<u>\$200</u> ~~\$190~~	<u>\$300</u> ~~\$250~~	<u>\$500</u> ~~\$340~~	Yes
12(g)	Failure to provide access	<u>\$300</u> ~~\$290~~	<u>\$400</u> ~~\$375~~	<u>\$500</u> ~~\$460~~	No

To: Liquid Waste Committee

From: Maria Edwards, Project Engineer, Policy Planning and Analysis, Liquid Waste Services

Date: September 26, 2026 Meeting Date: October 14, 2026

Subject: **Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026 – Fraser Sewerage Area – Maple Ridge (14500 Silver Valley Road)**

RECOMMENDATION

THAT the GVS&DD Board:

- a) give first, second and third readings to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026*; and
 - b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026*.
-

EXECUTIVE SUMMARY

In 2024, the City of Maple Ridge requested an amendment of the Fraser Sewerage Area (FSA) boundary to include building footprints at 14500 Silver Valley Road. The GVS&DD Board approved the request by adopting *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 374, 2024* (Reference 1).

Following further site engineering and utility service reviews, the City applied to revise the previously approved building footprints and servicing approach.

On September 25, 2026, the MVRD Board resolved that the revised sewer service extension is consistent with *Metro 2050* (Reference 2) and forwarded the application to the GVS&DD Board. A technical review confirmed that the revised development can be accommodated within the regional sewerage system with negligible dry weather impacts and manageable wet weather impacts, requiring no additional regional infrastructure.

As the application is consistent with *Metro 2050* sewer service provisions and raises no significant regional technical or financial concerns, staff recommend amending the FSA boundary.

PURPOSE

To seek GVS&DD Board adoption of the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 407, 2026* (**Attachment 1**) to amend the FSA boundary by revising the building footprint boundaries at 14500 Silver Valley Road in the City of Maple Ridge.

BACKGROUND

Sewerage area boundaries are fixed by the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018* and may be amended by bylaw and in accordance with Sections 31 and 32 of the *GVS&DD Act*, typically at a GVS&DD member's request.

**Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407,
2026 – Fraser Sewerage Area – Maple Ridge (14500 Silver Valley Road)**

Liquid Waste Committee Regular Meeting Date: October 14, 2026

Page 2 of 3

In 2024, the GVS&DD Board adopted the *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 374, 2024* to add four building footprints at 14500 Silver Valley Road (Malcolm Knapp Research Forest) to the FSA. Following further site engineering and utility service reviews, the City of Maple Ridge submitted a revised application to update the previously approved building footprints and servicing approach.

The revised application:

- Removes the proposed Katzie Longhouse from the FSA;
- Revises sewerage area boundaries for several future building footprints: front entry/office, a caretaker's residence, and outdoor lab/workshop; and
- Relocates the proposed sewer connection from Marc Road to Silver Valley Road, enabling a direct gravity connection to a future municipal sewer extension and eliminating the need for an on-site lift station.

APPLICATION REVIEW PROCESS

Metro 2050 Review

Metro 2050 establishes the framework for provision of regional sewer services.

At its September 25, 2026 regular meeting, the MVRD Board passed the following resolutions (Reference 3):

THAT the MVRD Board:

- a) resolve that sewer service for the property at 14500 Silver Valley Road, City of Maple Ridge is generally consistent with the provisions of Metro 2050; and*
- b) forward the requested Fraser Sewerage Area amendment application for the applicable properties as depicted in the report dated August 25, 2026, titled "Updated Request for Sanitary Service Connection at 14500 Silver Valley Road, Maple Ridge" to the GVS&DD Board for consideration.*

As a result, the revised building footprints are eligible for regional sewer service, subject to GVS&DD Board approval of the proposed amendment.

GVS&DD TECHNICAL REVIEW

Liquid Waste Services assessed the financial, technical, operational, and service impacts of amending the proposed FSA boundary amendment at 14500 Silver Valley Road (Schedule A of the attached bylaw).

The technical review concluded that:

- Dry weather flows will have a negligible impact on regional collection and treatment facilities; and
- Wet weather flows can be accommodated within existing regional capacity, provided appropriate measures are implemented to minimize inflow and infiltration (I&I).

If the amendment is approved by the GVS&DD Board, the City of Maple Ridge will be required to submit a sewer extension application through the Liquid Waste Municipal Portal (Reference 4) before connecting to the regional system.

Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026 – Fraser Sewerage Area – Maple Ridge (14500 Silver Valley Road)

Liquid Waste Committee Regular Meeting Date: October 14, 2026

Page 3 of 3

ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) give first, second and third readings to *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026*; and
 - b) adopt *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026*.
2. THAT the GVS&DD Board receive for information the report dated September 26, 2026, titled "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026 – Fraser Sewerage Area – Maple Ridge (14500 Silver Valley Road)", and direct staff to inform the City of Maple Ridge that the amendment is not approved.

FINANCIAL IMPLICATIONS

The proposed footprint revisions result in negligible dry weather impacts and manageable wet weather impacts on the regional sewer system. No new or accelerated regional capital infrastructure is required.

All costs associated with property servicing and municipal infrastructure extensions will be the responsibility of the property owner and/or the City of Maple Ridge.

CONCLUSION

The proposed FSA boundary amendment at 14500 Silver Valley Road is consistent with *Metro 2050* and can be accommodated within the regional sewerage system with negligible dry weather impacts and manageable wet weather impacts. No additional regional infrastructure is required, and all servicing costs will be borne by the property owner and/or the City of Maple Ridge.

As the application is consistent with *Metro 2050* provisions and presents no regional technical or financial concerns, staff recommend Alternative 1.

ATTACHMENT

1. *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026*.

REFERENCES

1. *Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 374, 2024*
<https://metrovanancouver.org/boards/GVSDD/SDD-2024-01-26-AGE.pdf#page=22>
2. Metro Vancouver. (2022). *Metro 2050 Regional Growth Strategy*
<https://metrovanancouver.org/services/regional-planning/Documents/metro-2050.pdf>
3. Cheung, V. (2026). *Updated Request for Sanitary Service Connection at 14500 Silver Valley Road, Maple Ridge* [Staff report to MVRD Board meeting on 2026, September 25].
<https://metrovanancouver.org/boards/GVRD/RD-2026-09-25-AGE.pdf#page=177>
4. Metro Vancouver. (2026). *Liquid Waste Municipal Portal*.
<https://metrovanancouver.org/services/liquid-waste/liquid-waste-municipal-portal>

87404434

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT**BYLAW NO. 407, 2026****A bylaw to amend Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018****WHEREAS:**

- A. The Board of the Greater Vancouver Sewerage and Drainage District (“GVS&DD”) adopted Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018, to establish and fix the boundaries of the GVS&DD sewerage and drainage areas; and
- B. The City of Maple Ridge has requested amendments to the Fraser Sewerage Area (North Portion) boundaries at 14500 Silver Valley Rd; and
- C. The Board of the GVS&DD wishes to amend Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018, as amended, to alter the boundaries of the Fraser Sewerage Area (North Portion) as set out in this bylaw, pursuant to section 31 of the *Greater Vancouver Sewerage and Drainage District Act*.

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

Citation

1. The official citation of this bylaw is “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amendment Bylaw No. 407, 2026”.

Schedules

2. The following schedules are attached to and form part of this bylaw:
 - Schedule A, Areas Added to the Fraser Sewerage Area (North Portion); and
 - Schedule B, Areas Removed from the Fraser Sewerage Area (North Portion).

Amendment of Bylaw

3. The boundaries of the Fraser Sewerage Area (North Portion) and “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018”, as amended (“Bylaw No. 310”), are hereby amended as follows:
 - (a) the North Portion of the Fraser Sewerage Area, as set out in Schedule “A” to Bylaw No. 310, is altered by adding those areas within the City of Maple Ridge identified in Schedule A of this bylaw; and
 - (b) the North Portion of the Fraser Sewerage Area, as set out in Schedule “A” to Bylaw No. 310, is altered by removing those areas within the City of Maple Ridge identified in Schedule B of this bylaw.

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

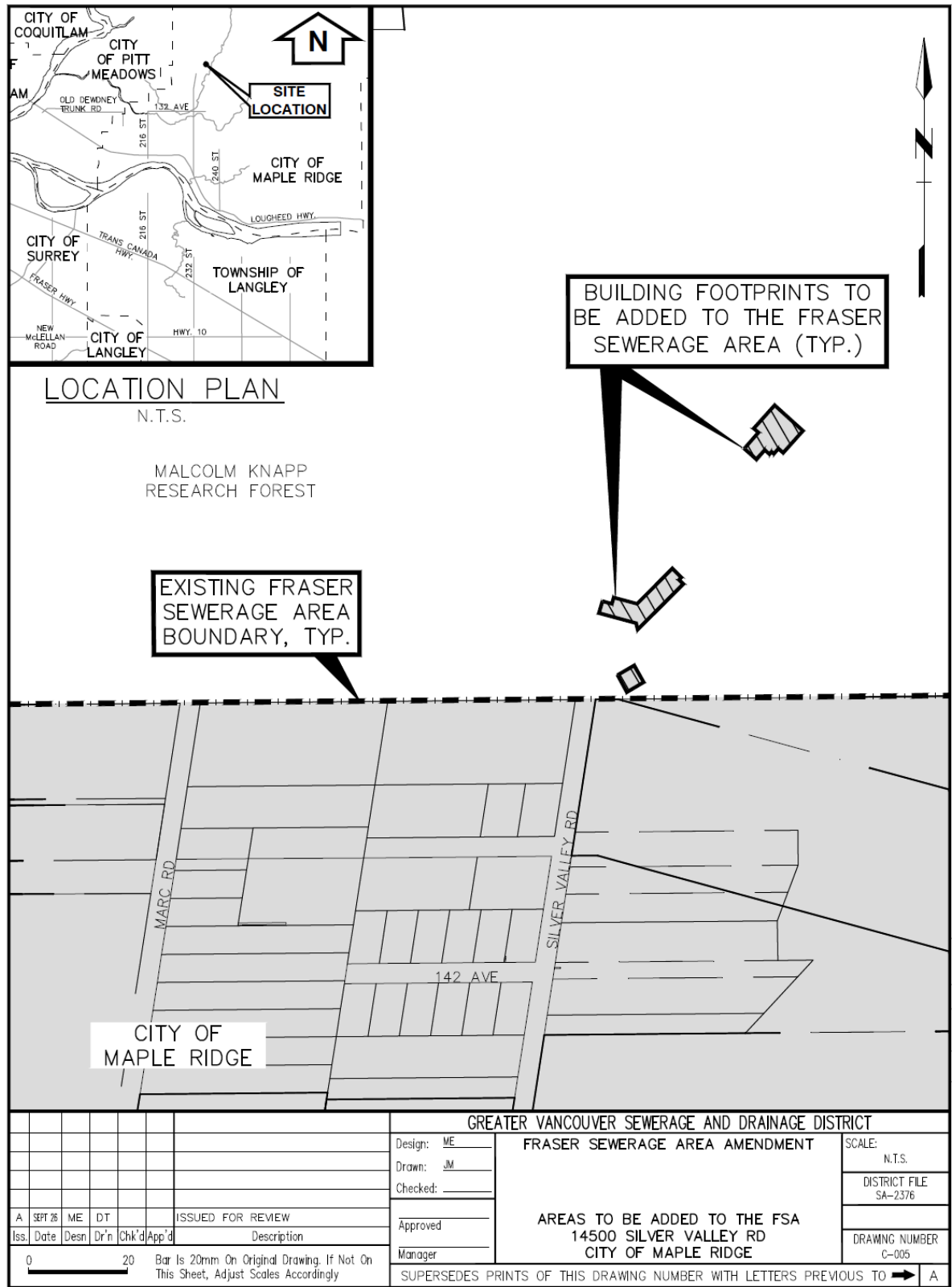
Adopted this _____ day of _____, _____.

Mike Hurley, Board Chair

Nikki Tilley, Acting Corporate Officer

Schedule A

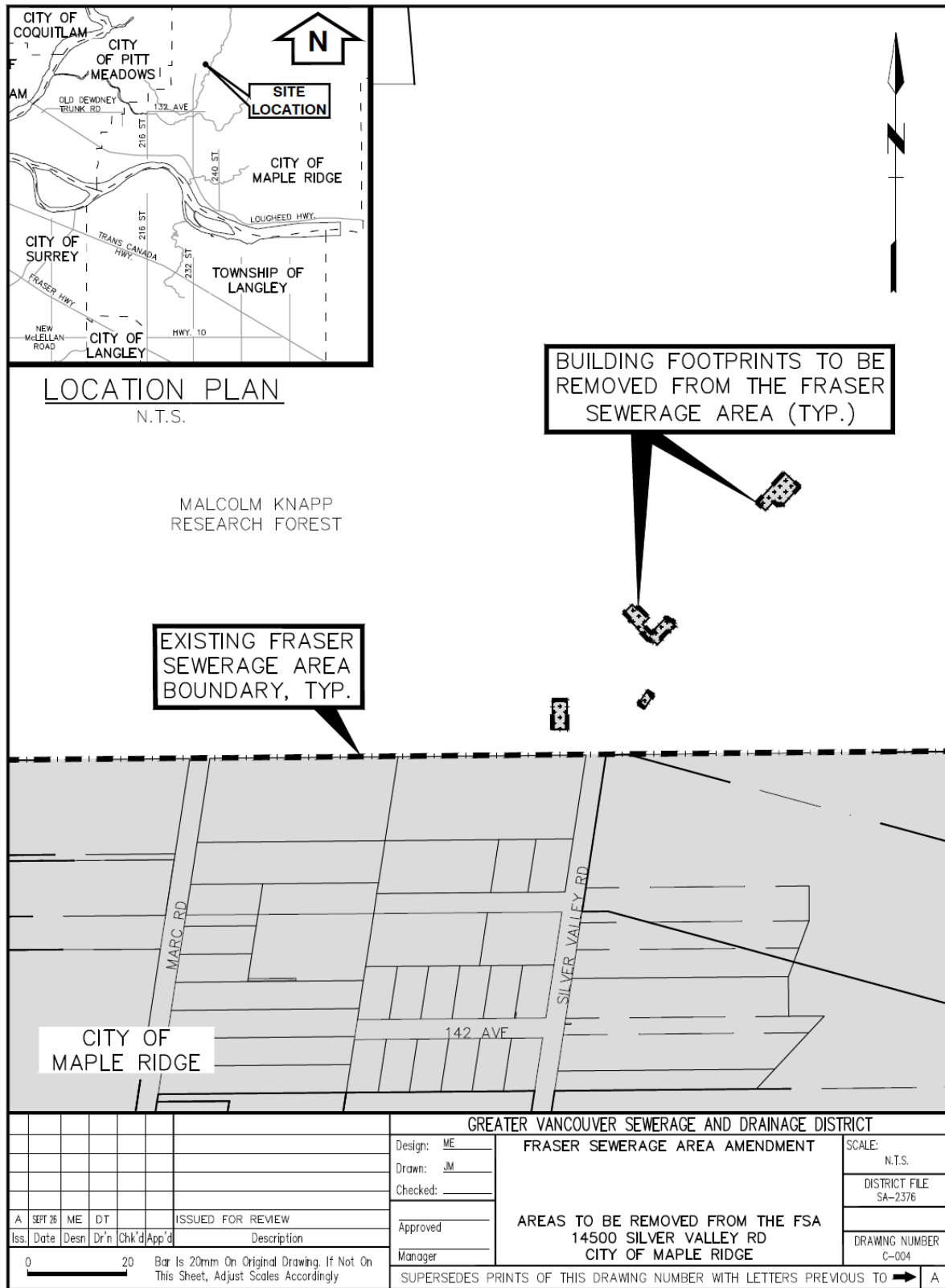
Areas Added to the Fraser Sewerage Area (North Portion)



Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries
Amendment Bylaw No. 407, 2026

Schedule B

Areas Removed from the Fraser Sewerage Area (North Portion)



Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries
Amendment Bylaw No. 407, 2026



To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services
Marek Ratajczak, Director, Major Projects, Project Delivery

Date: September 12, 2026

Meeting Date: October 14, 2026

Subject: **Award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements**

RECOMMENDATION

THAT the GVS&DD Board:

- a) approve the award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements, in the amount of up to \$25,268,862 (exclusive of taxes) to Pomerleau Inc., subject to final review by the Acting Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

Pomerleau Inc.'s proposal ranked highest overall and demonstrated best value overall for Metro Vancouver. Although not the lowest cost proponent, Pomerleau Inc.'s proposal clearly demonstrated the availability of qualified personnel and sub-contractors, as well as a strong understanding of the methodology required to successfully deliver the scope of services. These strengths will enable Metro Vancouver to complete the work within the required schedule while achieving value for money.

Metro Vancouver requires a contractor to complete the Pre-Construction Ground Improvements for the Northwest Langley Wastewater Treatment Plant Expansion Program, estimated to be completed in 2036.

RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements was issued on June 12, 2026 to four proponents prequalified under RFQ No. 25-642. The procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP No. 26-0304 evaluation team has considered the proposals received, and on that basis recommend that the GVS&DD Board award Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements to Pomerleau Inc.

PURPOSE

Pursuant to the *GVS&DD Officers and Delegation Bylaw 284, 2014* (Bylaw) and *Board Policy No. FN-031*, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

Award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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BACKGROUND

As part of the Northwest Langley Wastewater Treatment Plant Expansion Program, an expanded plant will be constructed to replace the existing plant located at the same site to accommodate population growth in the region and continue protecting public health and the environment. The Northwest Langley Wastewater Treatment Plant Expansion Program is estimated to be completed in 2036. Pre-construction ground improvements are required for the plant expansion, the largest component of the Northwest Langley Wastewater Treatment Plant Expansion Program, to enable seismic resiliency prior to commencing the plant construction. The pre-construction ground improvements work is estimated to be completed in early 2028, with the construction of the plant set to commence later in 2028. RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements was issued to retain a qualified contractor to complete this work.

PROCUREMENT SUMMARY

Four proponents shortlisted under RFQ No. 25-642 responded to RFP No. 26-0304.

RFP No. 26-0304 Submissions

Proponents	Pricing (excluding taxes)
Jacobs Bros-Bauer JV	\$31,433,207
Pomerleau Inc.	\$25,268,862
PCL Constructors Westcoast Inc.	\$22,484,505

Metro Vancouver received three proposals. All three proposals complied with the submission requirements. The proposals were evaluated against technical requirements (60%) and commercial requirements (40%). Technical requirements were evaluated by Project Delivery and Commercial requirements were evaluated by Procurement.

After a comprehensive and detailed evaluation of the proposals, the evaluation team concluded that the proposal submitted by Pomerleau Inc. ranked highest overall and demonstrated best value overall for Metro Vancouver. Pomerleau Inc.'s proposal clearly demonstrated the availability of qualified personnel and sub-contractors, as well as a strong understanding of the methodology required to successfully deliver the scope of services. These strengths will enable Metro Vancouver to complete the work within the required schedule while achieving value for money.

Negotiations with Pomerleau Inc. were completed on August 27, 2026. Pomerleau Inc. took no exceptions to the Corporation's terms and conditions. Terms of the contract were agreed to and finalized with a contract value of \$25,268,862.

ALTERNATIVES

1. THAT the GVS&DD Board:

- a) approve award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements in the amount of up to \$25,268,862 (exclusive of taxes) to Pomerleau Inc., subject to final review by the Acting Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

Award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements

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2. THAT the GVS&DD Board receive the report dated September 12, 2026, titled "Award of RFP No. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements" for information and direct staff to report back with options for alternative course of action.

FINANCIAL IMPLICATIONS

The Northwest Langley Wastewater Treatment Plant Expansion Program experienced significant delays due to archaeological permitting challenges that arose in 2023, following the completion of extensive archaeological investigations that began in 2020. These challenges are now resolved; the delays are being monitored and will impact the budget for the upcoming construction stage. Any changes will be reviewed by the Committee and GVS&DD Board as part of Stage Gate 3 approval in 2028.

The project estimate for the Northwest Langley Wastewater Expansion Program is \$2,281,200,000. \$481,531,700 has been spent to August 31, 2026. This program has multiple phases, and the estimate allocated to the Pre-Construction Work is \$179,750,000. Actual Pre-construction Work spend is \$86,082,182 to August 31, 2026. There is sufficient budget available to accommodate the award of RFP No. 26-0304 in the amount of up to \$25,268,862 (exclusive of taxes).

OTHER IMPLICATIONS

Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements are on the critical path for construction of the plant expansion. The timely award of the construction services will facilitate the required ground improvements prior to commencing the plant construction.

CONCLUSION

It is recommended that GVS&DD Board approve the award of RFP NO. 26-0304 for Construction Services for the Northwest Langley Wastewater Treatment Plant Pre-Construction Ground Improvements, in the amount of up to \$25,268,862 (exclusive of taxes) to Pomerleau Inc. and authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

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To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services
 Marek Ratajczak, Director, Major Projects, Project Delivery

Date: September 12, 2026 Meeting Date: October 14, 2026

Subject: **Award of RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project**

RECOMMENDATION

THAT the GVS&DD Board:

- a) approve the award of RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Expansion Project in the amount of up to \$72,806,111 (exclusive of taxes) to CDM Smith Canada ULC, subject to final review by the Acting Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

CDM Smith Canada ULC's proposal ranked highest overall, had the lowest cost, had the highest technical score and demonstrated best overall value for Metro Vancouver.

Metro Vancouver requires Construction Management Consulting Services to effectively administer the Liquids Contract and Solids Contract, the two contracts that comprise the Northwest Langley Wastewater Treatment Plant Expansion Project, which is the largest component of the Northwest Langley Wastewater Treatment Plant Expansion Program, estimated to be completed in 2036.

RFP No. 26-0451 was advertised publicly on June 26, 2026, and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP No. 26-0451 evaluation team has considered the proposals received, and on that basis recommend that the GVS&DD Board award the Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project to CDM Smith Canada ULC.

PURPOSE

Pursuant to the *GVS&DD Officers and Delegation Bylaw 284, 2014* (Bylaw) and *Board Policy No. FN-031*, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

BACKGROUND

As part of the Northwest Langley Wastewater Treatment Plant Expansion Program, an expanded plant will be constructed to replace the existing plant located at the same site to accommodate population growth in the region and continue protecting public health and the environment. The Northwest Langley Wastewater Treatment Plant Expansion Program is estimated to be completed in 2036, and the Corporation requires the support of a qualified Construction Management Consultant through Program completion. The Northwest Langley Wastewater Treatment Plant Expansion Project, the largest component of the Northwest Langley Wastewater Treatment Plant Expansion Program, will comprise two construction contracts, the Liquids Contract and Solids Contract. The Liquids Contract construction

Award of RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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is scheduled to commence in 2028 and the Solids Contract construction start date will follow approximately one year later, in 2029. RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project was issued to retain a Construction Management Consultant qualified to effectively administer both contracts and their corresponding interfaces through construction completion and owner's commissioning. The Construction Management Consultant's scope of services will support the following project phases for both the Liquids and Solids contracts as a part of the award amount of up to \$72,806,111 under separate contracts:

- Liquids Contract, Phase 1 – Pre-Construction (2027-2028)
- Liquids Contract, Phase 2 – Construction (2028-2035)
- Liquids Contract, Phase 3 – Post-Construction (2036)

- Solids Contract, Phase 1 – Pre-Construction (2028-2029)
- Solids Contract, Phase 2 – Construction (2029-2035)
- Solids Contract, Phase 3 – Post-Construction (2036)

PROCUREMENT SUMMARY

RFP No. 26-0451 was issued on June 26, 2026, and closed on August 10, 2026.

RFP No. 26-0451 Submissions

Vendor Name	Total Price (excluding taxes)
AECOM Canada	\$92,899,063
Stantec Consulting Ltd.	\$85,500,894
CDM Smith Canada ULC	\$72,806,111
CIMA+ inc.	N/A*

* In accordance with the RFP, only the three highest-ranked technical proposals advanced to financial evaluation; therefore, the pricing envelope of the lowest-ranked proponent was not opened.

Metro Vancouver received four proposals. All proposals complied with the submission requirements. The proposals were evaluated against technical requirements (70%) and commercial requirements (30%). Technical requirements were evaluated by Project Delivery and Commercial requirements were evaluated by Procurement. In accordance with the RFP, only the three highest-ranked technical proposals advanced to financial evaluation; therefore, the pricing envelope of the lowest-ranked proponent was not opened.

After completing a detailed technical evaluation of all four proposals, and a financial evaluation of the three highest-ranked proposals, the proposal submitted by CDM Smith Canada ULC ranked highest overall, had the lowest cost, had the highest technical score and demonstrated best overall value for Metro Vancouver. In its submission, CDM Smith Canada ULC demonstrated a strong understanding of the scope and presented a clear work plan, supported by a team of experienced and specialized personnel with expertise in large municipal wastewater treatment plant construction management projects, including complex interface management requirements. These qualifications will support reducing project risks, maintaining the construction schedule, and reducing construction cost overruns.

Negotiations with CDM Smith Canada ULC were not required and the terms of the contract were finalized with a contract value up to \$72,806,111.

Award of RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) approve award of RFP No. 26-0451 – Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project in the amount of up to \$72,806,111 (exclusive of taxes) to CDM Smith Canada ULC, subject to final review by the Acting Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
2. THAT the GVS&DD Board receive the report dated September 12, 2026, titled “Award of RFP No. 26-0451 for Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project” for information and direct staff to report back with options for alternative course of action.

FINANCIAL IMPLICATIONS

The Northwest Langley Wastewater Treatment Plant Expansion Program experienced significant delays due to archaeological permitting challenges that arose in 2023, following the completion of extensive archaeological investigations that began in 2020. These challenges are now resolved; the delays are being monitored and will impact the budget for the upcoming construction stage. Any changes will be reviewed by the Committee and GVS&DD Board as part of Stage Gate 3 approval in 2028.

The project estimate for the Northwest Langley Wastewater Expansion Program is \$2,281,200,000. \$481,531,700 has been spent to August 31, 2026. This program has multiple phases, and the estimate allocated to the Northwest Langley Wastewater Treatment Plant Expansion Project is \$1,703,000,000. Actual Northwest Langley Wastewater Treatment Plant Expansion Project spend is \$178,390,711 to August 31, 2026. There is sufficient budget available to accommodate the award of RFP No. 26-0451 in the amount of up to \$72,806,111 (exclusive of taxes).

OTHER IMPLICATIONS

The Construction Management Consulting Services are being coordinated with the procurement planning and scheduling for the Liquids and Solids Contract contractors. The timely award of this Construction Management Consulting Services contract will facilitate the appropriate planning efforts leading up the construction start of the Northwest Langley Wastewater Treatment Plant Expansion Project.

CONCLUSION

It is recommended that GVS&DD Board approve the award of RFP No. 26-0451 – Construction Management Consulting Services for the Northwest Langley Wastewater Treatment Plant Expansion Project in the amount of up to \$72,806,111 (exclusive of taxes) to CDM Smith Canada ULC and authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services
Nelson Szeto, Director, IIWWTP Projects, Project Delivery

Date: October 2, 2026

Meeting Date: October 14, 2026

Subject: **Award of RFP No. 25-290 for Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects**

RECOMMENDATION

THAT the GVS&DD Board:

- a) approve the award of RFP 25-290 for the Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects, in the amount of up to \$18,804,548 (exclusive of taxes) to Ross Morrison Electric Ltd. for a one-time purchase, subject to final review by the Acting Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

Ross Morrison Electric Ltd.'s proposal ranked highest overall, provided the lowest cost, and demonstrated best value overall for Metro Vancouver.

Metro Vancouver requires construction and installation services for a Standby Power System facility at the existing Iona Island Wastewater Treatment Plant. This facility will provide existing plant reliability and resiliency for BC Hydro system outages, electrical redundancy for existing plant rehabilitation works, and enable switchover to a resilient BC Hydro power service for the upgraded treatment plant. This work is part of Phase 1 of the Iona Island Wastewater Treatment Plant Projects, which are funded through one-third grants each from the Province of BC and Canada.

RFP 25-290 was issued on May 1, 2026. RFP 25-290 was advertised publicly, and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. RFP 25-290 evaluation team have considered the proposals received, and on that basis recommend that the GVS&DD Board award Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects to Ross Morrison Electric Ltd.

PURPOSE

Pursuant to the *GVS&DD Officers and Delegation Bylaw No. 284, 2014* (Bylaw) and *Board Policy No. FN-031*, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

BACKGROUND

Metro Vancouver requires construction and installation services for a Standby Power System facility at the Iona Island Wastewater Treatment Plant in the City of Richmond. The Standby Power System facility

Award of RFP No. 25-290 for Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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will facilitate the switchover of the plant's existing power feeder cables, which are in direct conflict with the footprint of the new secondary treatment facilities. The existing power feed does not have sufficient capacity for all the proposed facilities, and staff are working with BC Hydro to bring a new power feed to meet project energy requirements. In addition, the Standby Power System facility is also intended to increase the reliability of the existing plant's electrical distribution system and improve the overall resiliency of the plant by providing back-up power.

The Standby Power System contractor will be responsible for the installation, integration, and commissioning of owner-supplied equipment, including generators, transformers, and electrical houses. The scope of work also includes the supply and installation of auxiliary electrical equipment, power and control cabling, conduits, and associated infrastructure, as well as system commissioning and training of operations and maintenance personnel.

As part of the Phase 1 early works, all costs associated to the Standby Power System facility are funded through one-third grant funding each from the Province of BC and Canada. Early work projects completed to date include the Ferguson utility and road improvements, Iona causeway utility and road improvements, and secondary treatment pilot plant. Other early works include site preparation and ground improvement with expected contract awards in 2027. The preliminary design of the wastewater treatment plant is in progress with adjustment to the scope as approved by the GVS&DD Board at its October 5, 2025 meeting.

PROCUREMENT SUMMARY**RFP 25-290 Submissions**

Proponents	Pricing (excluding taxes)
Houle Electric Ltd.	\$25,336,380
NAC Constructors Ltd.	\$19,989,033
Ross Morrison Electrical Ltd.	\$19,314,847

Metro Vancouver received three proposals. All proposals submitted by the Proponents were in compliance with the submission requirements. The compliant proposals were evaluated against technical requirements (50%) and commercial requirements (50%). Technical requirements were evaluated by the Iona Island Wastewater Treatment Plant project team and Commercial requirements were evaluated by the Procurement Division.

After a comprehensive and detailed evaluation of the compliant proposals the evaluation team concluded that the proposal submitted by Ross Morrison Electric Ltd. ranked highest overall, provided the lowest cost, and demonstrated best value overall for Metro Vancouver; more specifically, Ross Morrison Electric Ltd. presented the strongest and most comprehensive understanding of the scope of work and relevant key issues. Ross Morrison Electric Ltd. provided a detailed project methodology and work plan that includes optimal solutions to address the project's key issues. Furthermore, Ross Morrison Electric Ltd. has considerable experience on projects that are similar in scope, size, and context, having demonstrated their familiarity and knowledge with the installation and commissioning of diesel generators and medium-voltage electrical equipment within an operational wastewater treatment facility.

Negotiations with Ross Morrison Electric Ltd. were completed on July 20, 2026 and the terms of the contract were agreed to and finalized. The contract value agreed to is \$18,804,548, excluding taxes. This is a decrease of \$510,299 due to clarification on anticipated contractor costs related to mobilization and demobilization.

Award of RFP No. 25-290 for Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) approve the award of RFP 25-290 for the Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects, in the amount of up to \$18,804,548 (exclusive of taxes) to Ross Morrison Electric Ltd. for a one-time purchase, subject to final review by the Acting Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
2. THAT the GVS&DD Board receive the report dated October 2, 2026, titled "Award of RFP No. 25-290 for Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects" for information and direct staff to report back with options for alternative course of action.

FINANCIAL IMPLICATIONS

The project estimate for the Iona Island Wastewater Treatment Plant Projects, which includes design and construction, is \$6,000,000,000. This program has multiple phases, and the estimate for the current phase is \$1,060,000,000. The project has spent \$179,675,920 as of August 31, 2026. There is sufficient budget available to accommodate the award of RFP No. 25-290 in the amount of up to \$18,804,548 (exclusive of taxes).

CONCLUSION

It is recommended that the GVS&DD Board approve the award of RFP 25-290 Standby Power System Facility for the Iona Island Wastewater Treatment Plant Projects, in the amount of up to \$18,804,548 (exclusive of taxes) to Ross Morrison Electric Ltd. and authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

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To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services
Raymond Eng, Acting Director, Major Projects, Project Delivery

Date: September 22, 2026

Meeting Date: October 14, 2026

Subject: **Award of RFP 25-336 - AIWWTP Stage 5 Expansion – Ground Improvements**

RECOMMENDATION

THAT the GVS&DD Board:

- a) approve the award of RFP 25-336 Construction of Ground Improvements & Site Preparation for Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion Project, in the amount of up to \$35,573,315 (exclusive of taxes) to Kenaidan Contracting Ltd., subject to final review by the Acting Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
-

EXECUTIVE SUMMARY

Kenaidan Contracting Ltd.'s proposal ranked highest overall, provided the lowest cost, had the highest technical score and demonstrated best value overall for Metro Vancouver.

The Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion Project is required to increase the service population from 1.25 million to 1.5 million residents. The scope of this RFP award is for completion of ground improvements so that the next phase of the program can proceed, which will consist of constructing a new trickling filter pump station and two trickling filters on top of the newly ground-improved site.

RFP 25-336 was issued on February 26, 2026 to three (3) prequalified respondents of RFQ 24-418 Ground Improvements & Site Preparation, and the procurement was executed in accordance with the terms and condition of Metro Vancouver's Procurement Policy. The RFP 25-336 evaluation team have considered the proposals received, and on the basis recommend that the GVS&DD award RFP 25-336 - AIWWTP Stage 5 Expansion – Ground Improvements to Kenaidan Contracting Ltd.

PURPOSE

Pursuant to the *GVS&DD Officers and Delegation Bylaw No. 284* (Bylaw) amended in 2024 by *GVS&DD Bylaw No. 373* and Board Policy No. FN-031, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

BACKGROUND

The work under RFP 25-336 – AIWWTP Stage 5 Expansion – Ground Improvements includes the construction of ground improvement work for the new trickling filters and trickling filter pump station, and completion of ancillary work including but not limited to the relocation of existing utilities within the future building site. This project is part of the Annacis Stage 5 Expansion program to expand the Annacis Island Wastewater Treatment Plant liquid treatment capacity to meet population growth and environmental discharge requirements.

Award of RFP 25-336 - AIWWTP Stage 5 Expansion – Ground Improvements

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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PROCUREMENT SUMMARY

RFQ 24-418 was issued on February 26, 2026 to prequalify proponents to participate in RFP 25-336. Five proponents responded to RFQ 24-418, of those three were shortlisted and invited to respond to RFP 25-336.

RFP 25-336 Submissions

Proponents	Pricing (excluding taxes)
Pomerleau, Inc.	\$38,081,180
Kenaidan Contracting Ltd.	\$34,198,315

Metro Vancouver received two proposals. All proposals submitted by the Proponents were in compliance with the submission requirements. The compliant proposals were evaluated against Technical requirements (60%) and Commercial requirements (40%). Technical requirements were evaluated by Project Delivery staff and Commercial requirements were evaluated by Procurement Division staff.

After a comprehensive and detailed evaluation of the compliant proposals the evaluation team concluded that the proposal submitted by Kenaidan Contracting Ltd. ranked highest overall, provided the lowest cost, had the highest technical score, and demonstrated best value overall for Metro Vancouver. More specifically, Kenaidan Contracting Ltd.'s proposal demonstrated strong overall performance across the key evaluation criteria through a well-integrated and execution-focused approach. For example, Kenaidan Contracting Ltd.'s proposal demonstrated a strong understanding of real construction risks and conveyed a high level of confidence in constructability, optimal construction sequencing and scheduling, risk mitigation, and practical execution.

Negotiations with Kenaidan Contracting Ltd. were completed on July 7, 2026 and the terms of the contract were agreed to and finalized. The contract value agreed to is \$35,573,315. This is an increase of \$1,375,000 due to additional site investigations and engineering modelling to confirm the construction loading capabilities of the existing adjacent linear sewerage infrastructure.

ALTERNATIVES

1. THAT the GVS&DD Board:
 - a) approve the award of RFP 25-336 for Construction of Ground Improvements & Site Preparation for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion Project, in the amount of up to \$35,573,315 (exclusive of taxes) to Kenaidan Contracting Ltd., subject to final review by the Acting Commissioner; and
 - b) authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.
2. That the GVS&DD receive the report dated September 22, 2026, titled, "Award of RFP 25-336 - AIWWTP Stage 5 Expansion – Ground Improvements" for information and direct staff to report back with options for alternative course of action.

Award of RFP 25-336 - AIWWTP Stage 5 Expansion – Ground Improvements

Liquid Waste Committee Regular Meeting Date: October 14, 2026

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FINANCIAL IMPLICATIONS

The project estimate for the Annacis Island Wastewater Treatment Plant Stage 5 Expansion is \$1,340,400,000 for design and construction. Actual spend is \$578,526,824 to August 31, 2026. There are sufficient funds remaining to accommodate the award of RFP 25-336 for Construction of Ground Improvements & Site Preparation for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion Project, in the amount of up to \$35,573,315 (exclusive of taxes).

CONCLUSION

It is recommended that the GVS&DD Board approve the award of RFP 25-336 for Construction of Ground Improvements & Site Preparation for the Annacis Island Wastewater Treatment Plant Stage 5 Phase 2B Expansion Project, in the amount of up to \$35,573,315 (exclusive of taxes) to Kenaidan Contracting Ltd., and authorize the General Manager, Procurement and Real Estate, to execute the required documentation once the General Manager, Procurement and Real Estate, is satisfied that the award should proceed.

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To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: August 25, 2026

Meeting Date: October 14, 2026

Subject: **Manager's Report**

RECOMMENDATION

THAT the Liquid Waste Committee receive for information the report dated August 25, 2026 titled "Manager's Report".

1. 2026 Microfibres Reduction Campaign Update

The 2026 regional "Our Ocean Thanks You" campaign is taking place from September 14 to October 25, 2026. The campaign aims to reduce the amount of microfibres that enter the ocean through laundry and supports Metro Vancouver's source control initiatives to reduce unwanted items in our wastewater. Microfibres from fabrics are one of the largest sources of microplastics in the ocean, where they are harmful to aquatic life. Now in its sixth year, the campaign continues to ask residents to wash laundry in cold water to reduce microfibre shedding.

The campaign targets both families with children under 18 who tend to wash more loads per week, as well as parents over 55+ who are less likely to wash in cold. Creative materials feature local marine life asking people to "switch to cold" when they do laundry. This year's campaign will continue to test use of only Canadian media platforms for the paid media placements, which proved to be a successful approach in 2025. The paid media buy will include digital ads (banners and video) on web pages owned by Canadian publishers, placements on the Weather Network and TV, and sponsored content through Postmedia. All campaign elements will direct residents to the campaign website, switchtocold.ca, where they can learn more about microfibres and additional ways to reduce them. A post-campaign survey will be conducted to help evaluate the campaign's effectiveness and inform approaches for future campaigns.

2. 2026 Wipe It, Green Bin It Campaign Update

The 2026 Wipe It, Green Bin It campaign launched on September 28 and will run until November 8, 2026. The campaign supports Metro Vancouver source control initiatives to reduce unwanted materials in our wastewater system by asking residents to put fats, oils, and grease (FOG) in their green bin and not down their sinks. The disposal of FOG into the sewer system is an ongoing issue that contributes to sewer clogs and overflows that cost Metro Vancouver and member jurisdictions at least \$3 million every year. The campaign started before Thanksgiving to reach residents when they are preparing heavier, holiday-oriented meals. Campaign-related social media posts also take place throughout the year, during other seasonal, food-related events like the Grey Cup, Super Bowl, and Lunar New Year.

Creative materials highlight various forms of FOG and raise awareness of the impacts of foods that are less known for causing problems in sewers, like dairy products. This year's campaign targets residents aged 18–34, as research shows this younger demographic is the most likely to dispose of FOG down the drain. The campaign includes a paid media buy. Digital placements include YouTube, social media, Pinterest, Snapchat, Reddit, and Google search. Out-of-home advertising will appear on bus sides, in SkyTrain stations, in residential elevators, and in post-secondary student housing. All campaign messaging directs residents to the campaign website: wipeitgreenbinit.ca.

ATTACHMENT

1. Liquid Waste Committee 2026 Work Plan.

REFERENCES

1. Metro Vancouver. (2026, September). *Our Ocean Thanks You*.
<https://metrovancover.org/microfibres>
2. Metro Vancouver. (2026, September). *Disposal of Fats, Oils and Grease at Home*.
<https://metrovancover.org/services/liquid-waste/what-to-do-with-fats-oils-and-grease>

86710813

Liquid Waste Committee 2026 Work Plan

Report Date: August 25, 2026

Priorities	
1st Quarter	Status
2025 “Our Oceans Thank You” and “Wipe it Green Bin It” Campaign Results	Complete
Development Cost Charge Waiver or Reduction for Not-for-Profit Rental Housing	Complete
Capital Program Update	Complete
Major Projects Updates (as applicable)	Complete
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Complete
Contract Approvals as per the <i>Procurement and Asset Disposal Authority</i> Policy	Complete
Transaction Approvals as per the <i>Real Estate Authority</i> Policy	Complete
Utility Policies (as applicable)	Complete
2nd Quarter	
2025 Year-End Financial Results (Operating)	Complete
Richmond Oval Sewer Heat District Energy System	Complete
Innovation Project Updates	Complete
Liquid Waste Management Plan – Provincial Approval	Pending
Major Projects Updates (as applicable)	Complete
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Complete
Contract Approvals as per the <i>Procurement and Asset Disposal Authority</i> Policy	Complete
Transaction Approvals as per the <i>Real Estate Authority</i> Policy	Complete
Utility Policies (as applicable)	Complete
3rd Quarter	
Draft Liquid Waste Services 2027 – 2031 Capital Plan	Complete
2025 GVS&DD Environmental Management and Quality Control Annual Report	Complete
Industrial Sewer Use and Trucked Liquid Waste Fees Update	In Progress
Capital Program Five Year Outlook	Complete
Major Projects Updates (as applicable)	Complete
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Complete
Contract Approvals as per the <i>Procurement and Asset Disposal Authority</i> Policy	Complete
Transaction Approvals as per the <i>Real Estate Authority</i> Policy	Complete
Utility Policies (as applicable)	Complete
4th Quarter	
2027 – 2031 Five Year Financial Plan and 2027 Budget & Annual Rates	Complete
Capital Program Update	Complete
Major Project Updates (as applicable)	Complete
Municipal Requests for Sewerage Area Boundary Amendments (as applicable)	Complete
Contract Approvals as per the <i>Procurement and Asset Disposal Authority</i> Policy	Complete
Transaction Approvals as per the <i>Real Estate Authority</i> Policy	Complete
Utility Policies (as applicable)	Complete

Metro Vancouver
CAO Executive Offices

OCT 02 2026

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Reference: 423342

October 2, 2026

Mike Hurley, Chair
and Directors
Greater Vancouver Sewerage & Drainage District
4515 Central Boulevard
Burnaby BC V5H 0C6

Sent via email: CAOAdministration@metrovancover.org

Dear Chair Hurley and Directors:

Further to the July 29, 2026, letter from the Minister of Environment and Parks, regarding Metro Vancouver's Liquid Waste Management Plan (LWMP), I would like to clarify that the requirement to seek endorsements from member municipalities should not be interpreted as a requirement to seek unanimous endorsements. It is understood that there will be differing opinions, and the intent is to ensure that those views are sought out and considered as part of the consultation process.

Please contact Deb Epps, Executive Director, at Deb.Epps@gov.bc.ca, if you have any questions.

With best regards,

Kevin Jardine
Deputy Minister

cc: Deb Epps, Executive Director, Authorizations and Remediation Branch,
Environmental Protection Division, Ministry of Environment and Parks
Peter Navratil, General Manager, Liquid Waste Services, Metro Vancouver Regional
District