

To: Zero Waste Committee

From: Paul Henderson, General Manager, Solid Waste Services

Date: June 18, 2026

Meeting Date: July 2, 2026

Subject: **DRAFT Five Year Capital Plan (2027 - 2031) Solid Waste Services**

RECOMMENDATION

THAT the Zero Waste Committee receive for information the report dated June 18, 2026, titled "DRAFT Five Year Capital Plan (2027-2031) Solid Waste Services".

EXECUTIVE SUMMARY

The draft Five Year Capital Plan for Solid Waste Services has been prepared following direction received at the April 15, 2026 Board Budget Workshop to proceed through the 2027 budget cycle with household impact (HHI) targets as follows: 2027 at 3.0%, 2028 at 5.0%, 2029 at 5.0%, 2030 at 5.0%, and 2031 at 5.0%.

Solid Waste Services estimates capital spending is \$404.0M over the next five years with funding provided primarily through debt. Overall solid waste expenditures including debt services are funded through tipping fees. Key capital projects include various Waste-to-Energy Facility projects and North Surrey and Langley recycling depot development and site reconfiguration.

The Waste-to-Energy Facility Operational Certificate was amended on September 23, 2025, which may reduce acid gas reduction requirements. The requirements are not yet certain and therefore capital for acid gas reduction continues to be included in the plan.

The net change from the previous 5-year capital plan is an overall increase of \$14.3M primarily due to changes in project timing and construction of the Waste-to-Energy Facility District Energy System entering full construction.

PURPOSE

To present to the Zero Waste Committee the DRAFT Solid Waste 2027 - 2031 Capital Plan for input and feedback, which will then be incorporated into the Fall Budget approval process.

BACKGROUND

On April 15, 2026 Metro Vancouver held a Board Budget Workshop seeking direction for the preparation of the 2027 - 2031 Financial Plan. This report provides the Zero Waste Committee with the information needed to provide comments on the DRAFT 2027-2031 Capital Plan which will then be incorporated into the 2027 - 2031 Financial Plan scheduled to be presented in October.

METRO VANCOUVER SOLID WASTE MANAGEMENT PLAN

Metro Vancouver Solid Waste initiatives and expenditures within the DRAFT 2027-2031 Capital Plan over the five years are guided by the Solid Waste Management Plan's goals:

- **Goal 1:** Minimize waste generation
- **Goal 2:** Maximize reuse, recycling and material recovery
- **Goal 3:** Recover energy from the waste stream after material recycling
- **Goal 4:** Dispose of all remaining waste in landfill, after material recycling and energy recovery.

An updated draft solid waste management plan was endorsed by the GVS&DD Board on April 24, 2026, and will be submitted to the Minister of Environment and Parks for consideration following an additional comment period up to August 1, 2026. Any new capital projects that may be contemplated through the updated solid waste management plan would be considered by the Zero Waste Committee and GVS&DD Board through the budget process.

CAPITAL PLAN HIGHLIGHTS

The draft 2027-2031 Capital Plan includes expenditures of \$61.8M for 2027 and a total of \$404.0M over the five-year budget cycle. The net change from the previous 5-year capital plan is an overall increase of \$14.3M, largely due to changes in project timing and construction of the Waste-to-Energy Facility District Energy System entering full construction. There are 48 active projects planned in 2027 with Waste-to-Energy Facility projects making up 57%. The 2027 expenditure is \$49.5M (56%) less than last year's projection for 2026 (\$111.3M).

On September 23, 2025, the Ministry of Environment and Parks issued an amended Operational Certificate for the Waste-to-Energy Facility that replaced a requirement to build and acid gas reduction system with a requirement to undertake a series of studies and propose updated emission limits for the Waste-to-Energy Facility. Capital requirements for acid gas reduction will be determined once updated emission limits are in place for the Waste-to-Energy Facility, and as such at this time the acid gas reduction system has been retained in the capital plan, but the timing of the expenditures has been revised to reflect the updated Operational Certificate requirements.

Table 1 below outlines the key capital projects planned or ongoing in 2027-2031 for Solid Waste Services.

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

Infrastructure Type	Project Name	Infrastructure Driver	Proposed 2027 Expenditure (\$M)
Landfill	Coquitlam Landfill Maintenance	Maintenance	\$3.0M
Landfill	Solid Waste Facility Land Purchase	Resilience	2.0
Recycling and Waste Centres	Langley Recycling and Waste Centre Depot Development and Site Reconfiguration	Upgrade	11.1
Recycling and Waste Centres	Maple Ridge Recycling and Waste Centre Upgrades	Upgrade	1.2
Recycling and Waste Centres	North Surrey Recycling and Waste Centre Depot Development and Site Reconfiguration	Upgrade	2.9

DRAFT Five Year Capital Plan (2027 - 2031) Solid Waste Services

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Infrastructure Type	Project Name	Infrastructure Driver	Proposed 2027 Expenditure (\$M)
Recycling and Waste Centres	Recycling and Waste Centre Maintenance	Maintenance	6.6
Waste-To-Energy Facility	Acid Gas Reduction	Upgrade	1.0
Waste-To-Energy Facility	Biosolids Processing	Resilience	7.0
Waste-To-Energy Facility	Waste-to-Energy Facility Maintenance	Maintenance	7.1
Waste-To-Energy Facility	Waste-to-Energy Facility District Energy	Resilience	20.0
Total			\$61.8M

Capital Development Plan Changes

Metro Vancouver's annual capital planning process allows the Board to adjust the capital budget once a year, in the fall, to accommodate changes required to fund projects in response to new or changing project needs, emerging issues, and changing priorities. The completion of multi-year projects is complex and subject to change due to a variety of factors including delays in construction timing caused by global events, escalation in construction costs, changes in scope and permitting processes.

The draft 2027-2031 Capital Plan capital expenditure was increased from the 2026–2030 capital plan by \$14.3M. No new substantive capital projects are contemplated in the 2027-2031 Capital Plan, with changes from the previous plan a result of updates to timing of projects, and the cash flow requirements as the Waste-to-Energy Facility District Energy system enters full construction.

Capital Plan Review Process

Solid Waste Services carefully reviewed the project schedules to accommodate any carryforwards and cost adjustments by deferring project phases, where possible. Throughout the capital planning process, Solid Waste Services staff review each project line to ensure efficient project timing, deliverability, and scope.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

Solid Waste Services estimates capital spending is \$404.0M over the next five years largely funded from debt. The overall Solid Waste Services budget including debt service is primarily funded through garbage tipping fees. Key capital projects include various Waste-to-Energy Facility projects (district energy, acid gas reduction, biosolids processing, and maintenance projects), and North Surrey and Langley recycling depot development and site reconfiguration. The net change from the previous 5-year capital plan is an overall increase of \$14.3M, largely due to changes in project timing and construction of the Waste-to-Energy Facility District Energy System entering full construction. The average estimated capital expenditure per year is approximately \$80.0M. See **Table 2** below.

DRAFT Five Year Capital Plan (2027 - 2031) Solid Waste Services

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Table 2. DRAFT Five Year Capital Plan (2027-2031) Solid Waste Services

\$M	2027 Capital Expenditures	2028 Capital Expenditures	2029 Capital Expenditures	2030 Capital Expenditures	2031 Capital Expenditures	DRAFT 5 YEAR CAPITAL PLAN (2027-2031)
TOTAL CAPITAL EXPENDITURES	61.8	59.0	94.45	103.6	85.2	404.0

This report provides an opportunity for Zero Waste Committee feedback and input, which will then be incorporated into the 2027 Annual Operating Budget and Five-Year Financial Plan presentations to the Committees and the Board at the fall Board Budget Workshop.

CONCLUSION

The DRAFT 2027-2031 Capital Plan illustrates how Solid Waste Services supports the Solid Waste Management Plan and the financial impacts of these projects over the next five years. The guiding principles of the Capital Plan are: minimize waste generation; maximize reuse, recycling and material recovery; recover energy from the waste stream after material recycling; and dispose of all remaining waste in landfill, after material recycling and energy recovery. The Capital Plan has been developed to advance Metro Vancouver efforts to actively achieve these four goals.

ATTACHMENTS

1. DRAFT Five Year Capital Plan (2027-2031) Solid Waste Services.
2. Presentation re: DRAFT Five Year Capital Plan (2027-2031) Solid Waste Services.

REFERENCES

1. Canadian Climate Institute. (2025, February). *Close to Home: How to Build More Housing in a Changing Climate*. <https://climateinstitute.ca/wp-content/uploads/2025/02/Close-to-Home-Report-Canadian-Climate-Institute.pdf>
2. Metro Vancouver. (2022). *Board Strategic Plan 2022-2026*. <https://metrovancover.org/about-us/Documents/board-strategic-plan-update-2023.pdf>
3. Metro Vancouver. (2022, February). *Metro 2050 Regional Growth Strategy. Action 3.4.2 a)*. <https://metrovancover.org/services/regional-planning/Documents/metro-2050.pdf#page=73>
4. Hayes, J. (2024). *Streamlining Rental Housing through Standardized Designs and Regulations: Project Update* [Staff report to MVRD Board meeting on 2024, November 29]. <https://metrovancover.org/boards/RegionalPlanning/RPL-2024-11-08-AGE.pdf#page=87>

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
SOLID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
CAPITAL EXPENDITURES									
Landfills									
Coquitlam Landfill Maintenance	\$ 9,300,000	\$ 3,000,000	\$ 3,500,000	\$ 2,250,000	\$ 250,000	\$ 300,000	\$ 9,300,000	Multiple	Maintenance
Total Landfills	\$ 9,300,000	\$ 3,000,000	\$ 3,500,000	\$ 2,250,000	\$ 250,000	\$ 300,000	\$ 9,300,000		
Recycling and Waste Centres									
Langley Recycling and Waste Centre Depot Development and Site Reconfiguration	\$ 20,500,000	\$ 11,100,000	\$ 4,000,000	\$ 2,500,000	\$ —	\$ —	\$ 17,600,000	Construction	Upgrade
Maple Ridge Recycling and Waste Centre Upgrades	1,500,000	1,150,000	—	—	—	—	1,150,000	Construction	Upgrade
North Surrey Recycling and Waste Centre Depot Development	44,100,000	2,850,000	8,700,000	7,000,000	—	—	18,550,000	Construction	Upgrade
Recycling and Waste Centre Maintenance	21,300,000	6,600,000	5,500,000	3,900,000	2,800,000	2,500,000	21,300,000	Construction	Maintenance
Solid Waste Facility Land Purchase	100,000,000	2,000,000	2,000,000	36,000,000	40,000,000	20,000,000	100,000,000	Design	Resilience
Total Recycling and Waste Centres	\$ 187,400,000	\$ 23,700,000	\$ 20,200,000	\$ 49,400,000	\$ 42,800,000	\$ 22,500,000	\$ 158,600,000		
Waste To Energy Facility									
Acid Gas Reduction	\$ 5,450,000	\$ 1,000,000	\$ 2,000,000	\$ 5,000,000	\$ 25,000,000	\$ 27,000,000	\$ 60,000,000	Design	Upgrade
Biosolids Processing	24,250,000	7,000,000	6,400,000	6,000,000	—	—	19,400,000	Construction	Resilience
Waste-to-Energy Facility Maintenance	34,550,000	7,050,000	6,900,000	6,800,000	6,900,000	6,900,000	34,550,000	Construction	Maintenance
Waste-to-Energy Facility District Energy	217,000,000	20,000,000	20,000,000	25,000,000	28,600,000	28,500,000	122,100,000	Multiple	Resilience
Total Waste To Energy Facility	\$ 281,250,000	\$ 35,050,000	\$ 35,300,000	\$ 42,800,000	\$ 60,500,000	\$ 62,400,000	\$ 236,050,000		
TOTAL CAPITAL EXPENDITURES	\$ 477,950,000	\$ 61,750,000	\$ 59,000,000	\$ 94,450,000	\$ 103,550,000	\$ 85,200,000	\$ 403,950,000		
SUMMARY BY DRIVER									
Growth	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —		
Maintenance	\$ 65,150,000	\$ 16,650,000	\$ 15,900,000	\$ 12,950,000	\$ 9,950,000	\$ 9,700,000	\$ 65,150,000		
Resilience	341,250,000	29,000,000	28,400,000	67,000,000	68,600,000	48,500,000	241,500,000		
Upgrade	71,550,000	16,100,000	14,700,000	14,500,000	25,000,000	27,000,000	97,300,000		
Opportunity	—	—	—	—	—	—	—		
Total	\$ 477,950,000	\$ 61,750,000	\$ 59,000,000	\$ 94,450,000	\$ 103,550,000	\$ 85,200,000	\$ 403,950,000		

**Draft Capital Budget refers to the estimated project costs to active phase.



Central Surrey Recycling and Waste Centre

2027 BUDGET AND 2027–2031 FINANCIAL PLAN DRAFT FIVE YEAR CAPITAL PLAN (2027-2031)

Paul Henderson, M.A.Sc., M.B.A., P. Eng.

General Manager, Solid Waste Services

Zero Waste Committee – July 2, 2026

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North Shore Recycling and Waste Centre

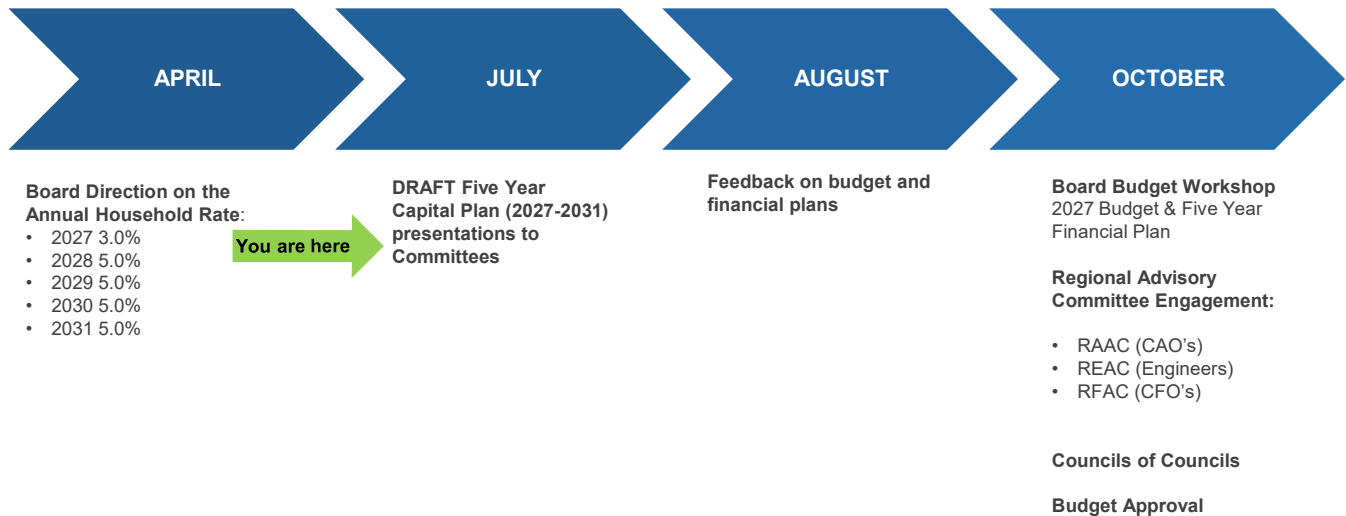
SOLID WASTE SERVICES

Ensures excellent customer service for the more than 1,100,000 customer visits to regional solid waste facilities each year while continuing to advance zero waste and the circular economy.

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2027-2031 FINANCIAL PLAN & ANNUAL BUDGET TIMELINE

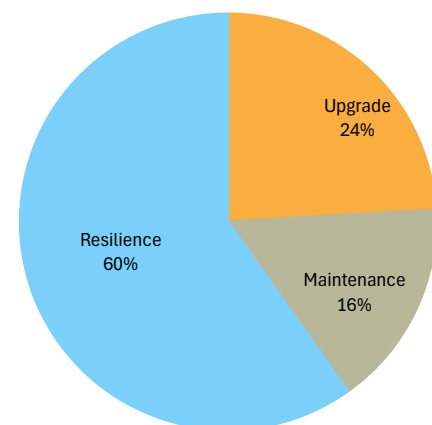


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CAPITAL PLAN DRIVERS

Driver	Outcome	2027 – 2031 Capital Plan (\$M Expenditures)
Maintenance	Maintain assets in a state of good repair	65.2
Resilience	Minimize impacts resulting from seismic events and climate change	241.5
Upgrade	Enhance levels of service/Meet Regulatory Requirements	97.3
Total		404.0



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CAPITAL EXPENDITURES

DRAFT 5 YEAR CAPITAL PLAN (2027 – 2031) CAPITAL PLAN EXPENDITURES

Overview:

2026 Capital Expenditures: **\$41.0M**

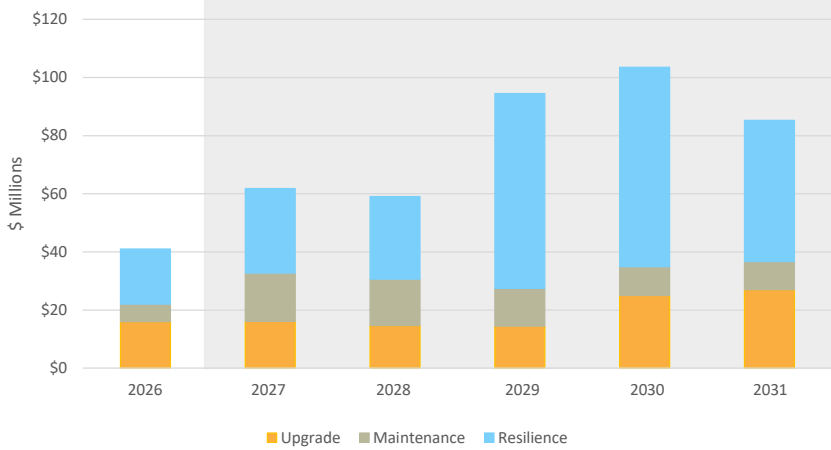
2027 Capital Expenditures: **\$61.8M**

51% increase

Drivers for Change:

- Project timing
- District energy entering full construction

2027 – 2031 Solid Waste Services Capital Expenditures



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To: Zero Waste Committee

From: Brandon Ho, Senior Project Engineer, Solid Waste Services

Date: June 17, 2026

Meeting Date: July 2, 2026

Subject: **2025 Disposal Ban Program Update**

RECOMMENDATION

THAT the Zero Waste Committee receive for information the report dated June 17, 2026, titled “2025 Disposal Ban Program Update”.

EXECUTIVE SUMMARY

The disposal ban program encourages waste reduction and recycling through surcharges on garbage loads that contain banned materials above prescribed thresholds. Garbage loads are visually inspected to identify banned materials. Loads inspected increased from 169,625 in 2024 to 203,696 in 2025. Approximately 22% of the garbage loads received at Metro Vancouver and City of Vancouver solid waste facilities were inspected in 2025, and of those loads approximately 8% contained banned materials, with 2% receiving surcharges. More than 16,000 loads containing banned materials were not disposed of following the inspection process. Corrugated cardboard, electronic waste, and mattresses were the top three banned materials in loads receiving surcharges. Surcharge data continues to show consistent trends in both material types and customer performance.

Metro Vancouver is exploring a hauler incentive program to encourage waste haulers to maximize recycling opportunities for their customers and further reduce recyclable materials in the garbage stream. Metro Vancouver is also investigating the use of artificial intelligence analytics to assist inspectors with load inspections and the identification of banned materials, particularly those that pose operational and safety risks.

PURPOSE

The purpose of this report is to provide the annual update to the Zero Waste Committee on the 2025 results of the Metro Vancouver disposal ban program.

BACKGROUND

Disposal ban program results are reported annually as outlined in the Zero Waste Committee work plan. The program helps keep readily recyclable materials and hazardous materials that pose operational risks out of the waste stream.

2025 DISPOSAL BAN PROGRAM RESULTS

The *Greater Vancouver Sewerage and Drainage District Tipping Fee and Solid Waste Disposal Regulation Bylaw No. 379, 2024*, as amended (Tipping Fee Bylaw) specifies a list of over 40 banned materials restricted from disposal (**Attachment 1**). The disposal ban program is a key tool for Metro Vancouver to encourage waste reduction and recycling. Garbage loads received at Metro Vancouver and City of Vancouver solid waste facilities are visually inspected for banned materials, and surcharges are applied if banned materials are present in quantities exceeding the thresholds defined in the Tipping Fee Bylaw. Metro Vancouver reports annually on program results including inspection and surcharge rates, and surcharges by material and customer type.

Disposal Ban Program Results

In 2025, the number of garbage loads received at regional solid waste facilities was 5.2% higher than in 2024. The number of loads received at Central Surrey Recycling and Waste Centre increased 26% while Langley, Maple Ridge, North Shore, and United Boulevard recycling and waste centres had 5% to 7% increases in the number of garbage loads received. The North Surrey Recycling and Waste Centre garbage loads increased by 1.2% in 2025 compared to 2024 while Waste-to-Energy Facility garbage loads decreased by 2.1% in 2025 compared to 2024 mostly due to additional unplanned shutdowns and maintenance repairs. Table 1 provides a multi-year comparison of disposal ban program results.

Table 1: Inspection Statistics for Regional Solid Waste Facilities

Year	Garbage Loads	Loads Inspected	Inspection Rate	Re-Loads	Surcharge Notices	Surcharge Rate
2023	834,626	165,906	20%	10,674	3,284	2.0%
2024	889,501	169,625	19%	15,966	3,128	1.8%
2025	935,795	203,696	22%	16,643	4,036	2.0%

In 2025, 203,696 loads were inspected (22% inspection rate), and 20,679 (or approximately 10%) of inspected loads contained banned materials. Inspectors were able to work with customers and provide alternative recycling options to prevent 16,643 loads (re-loads) containing banned materials from being disposed as garbage.

Results by Material Type

Table 2 summarizes the distribution of surcharged loads by banned material type. Corrugated cardboard accounted for 27% of the surcharge notices in 2025, down from 30% in 2024. Electronic waste (including computers, home entertainment systems, household electronics, kitchen appliances, and vacuums) represented 26% of surcharged loads in 2025, up from 25% in 2024. Mattresses account for 8% in 2025, up from 7% in 2024.

Table 2: Summary of Materials Contained in Surcharged Loads at Regional Solid Waste Facilities

Material	2023	2024	2025
Cardboard	24%	30%	27%
Electronic Waste	31%	25%	26%
Mattresses	7%	7%	8%
Large Objects	2%	5%	6%
Food Waste	8%	6%	5%
Other Banned Materials	4%	5%	5%
Gypsum	9%	5%	4%
Paint (Includes empty containers)	2%	3%	4%
Yard Trimmings	2%	3%	4%
Tires	4%	3%	3%
Wire, Hosing, Rope or Cable	1%	2%	3%
Clean Wood	2%	4%	2%
Oil (Includes containers and filters)	1%	1%	1%
Expanded Polystyrene Packaging	2%	2%	1%
Mixed Recyclables (includes paper and containers)	1%	<1%	<1%

Surcharges by Customer Type

Table 3 summarizes the number of inspections and surcharge notices by customer type in 2025. The surcharge rate for commercial loads is typically higher than other customer types due to the load volumes, types of materials, and how they are collected. Typically, it is not safe/practical to prevent disposal of banned materials from a commercial or municipal load. Municipal loads are generally from single family households and typically have less visible banned materials than commercial loads. Residential cash and other non-account customers arriving in small vehicles normally unload materials manually and can separate, retrieve, and recycle banned materials more easily.

Table 3: Summary of Surcharges by Customer Type for 2025

Customer Type	Inspections	Surcharge Notices	Surcharge Rate
Commercial	59,895	3,223	5.4%
Municipal	10,589	150	1.4%
Non-account	133,212	663	0.5%
Totals	203,696	4,036	2.0%

Dispute Resolution

Customers may dispute a surcharge within 30 days of issue by completing a dispute form. Metro Vancouver received 19 surcharge disputes in 2025, up from 12 in 2024. Ten surcharge notices were rescinded as summarized in Table 4.

Table 4: Surcharge Dispute Summary

Year	Surcharge Disputes Received	Surcharge Notices Rescinded
2023	13	7
2024	12	8
2025	19	10

Hauler Surcharge Information

The 2025 surcharge amount and surcharge rate for each hauler with total surcharges exceeding \$1,000 is shown in **Attachment 2** (surcharges applied at Metro Vancouver facilities only). The hauler surcharge rate is the number of surcharge notices divided by the number of inspections for each hauler.

Hauler Incentive Program Development

Metro Vancouver is in the early stages of developing an incentive program to encourage waste haulers to maximize recycling opportunities for their customers, and to recognize processors and haulers that take all practical measures to eliminate recyclables from garbage. This could include exemptions from surcharges for haulers that provide comprehensive organics and recycling services, as well as reduced tipping fees for haulers offering electronics and bulky item collection programs.

Inspection Assistance Using Artificial Intelligence

Metro Vancouver is exploring the use of artificial intelligence (AI) analytics to assist inspectors with load inspections at the Waste-to-Energy Facility. Garbage is unloaded into a pit at the Waste-to-Energy Facility where an inspector relies on cameras to visually identify banned materials. The use of AI analytics could improve the inspection process to better identify banned materials such as pressurized gas canisters and electronics with lithium batteries that may impact site operations.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

In 2025 surcharge revenues were \$547,991 with \$512,812 from Metro Vancouver solid waste facilities and \$35,179 from City of Vancouver solid waste facilities as shown in **Attachment 3**. Total program expenditures in 2025 were \$1,262,443. The program is not intended to be cost neutral but rather encourages haulers to work with their customers to increase recycling and prevent readily recyclable materials from being disposed as garbage.

CONCLUSION

The disposal ban program helps keep readily recyclable materials and materials that pose operational risks and other hazards out of the waste stream. In 2025, 203,696 garbage loads were inspected, 20,679 loads were found to contain banned materials, and 4,036 surcharge notices were issued. The disposal ban program remains an effective tool to encourage waste reduction and recycling.

ATTACHMENTS

1. 2025 Banned Materials.
2. 2025 Solid Waste Surcharge Information at Metro Vancouver Facilities.
3. 2025 Solid Waste Surcharge Summary.

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2025 Banned Materials

Banned Hazardous and Operational Materials (\$76 surcharge on any single item plus the costs of remediation and clean-up)	
• Agricultural Waste	• Hazardous Waste
• Automobile Parts	• Inert Fill Materials
• Barrels or Drums (205 L or greater)	• Liquids or Sludge
• Creosote Treated Wood	• Mattresses
• Dead Animals	• Oversize Objects
• Dusty or Odourous	• Personal Hygiene Products over 10% of the load
• Excrement	• Propane Tanks
• Flammable Materials	• Toxic Plants
• Gypsum	• Wire, Hosing, Rope or Cable longer than 1 m

Banned Recyclable Materials (50% surcharge on Items above the threshold)
5% threshold on any combination of the following: • Beverage containers • Other recyclable plastic, glass, metal, and composite material containers • Corrugated cardboard • Recyclable paper • Yard trimmings • Clean wood
25% threshold on food waste

Banned Recyclable Materials (100% surcharge on Items above the threshold)
20% threshold on expanded polystyrene packaging

Banned Product Stewardship Materials (\$76 surcharge on any single item)	
• Antifreeze and Containers	• Paint and Paint Containers
• Electronics and Electrical Products	• Pesticides
• Gasoline	• Pharmaceutical Products and Medications
• Lead-Acid Batteries	• Solvents and Flammable Liquids
• Lubricating Oil and Containers	• Tires
• Oil, Oil Filters, Oil Containers	

2025 Solid Waste Surcharge Information at Metro Vancouver Facilities

Hauler (MV Facilities)	Surcharge Amount*	Hauler Surcharge Rate**
Alpine Site Services Inc.	\$ 1,444	24%
Annacis Waste Disposal	\$ 1,278	23%
Bin There Disposal Services Ltd.	\$ 3,474	14%
Canada Minibins Ltd.	\$ 21,488	5%
City of Burnaby	\$ 4,906	3%
City of Coquitlam	\$ 1,672	6%
City of New Westminster	\$ 1,026	2%
City of Surrey	\$ 3,510	2%
District of North Vancouver	\$ 2,712	5%
Emterra Environmental Group	\$ 9,832	8%
Fleetwood Waste Systems Ltd	\$ 1,107	14%
Flywheel Fraser Valley Accelerator	\$ 1,337	3%
Four Season Roofing & Disposal Ltd.	\$ 4,586	30%
GFL Environmental Inc.	\$ 33,555	5%
Greenline Disposal	\$ 1,074	16%
Little Big Recycling	\$ 1,291	2%
Maple Leaf Disposal	\$ 46,074	10%
Mega Junk Removal Corporation-Mega Bins	\$ 1,096	8%
Mini-Load Disposal Ltd.	\$ 3,011	8%
NSD Disposal Ltd.	\$ 4,374	7%
Onestop Disposal	\$ 1,221	16%
Residential - RDO	\$ 53,310	1%
RJ Disposal Ltd.	\$ 4,217	7%
SF Disposal Queen	\$ 7,191	19%
Smart Bins Holding Ltd.	\$ 5,328	13%
Super Save Disposal Inc	\$ 79,540	11%
Total Site Services	\$ 1,129	21%
Two Guys Recycling & Disposal Services Inc.	\$ 8,010	12%
Tymac Launch Service Ltd.	\$ 1,823	2%
Urban Impact Recycling Ltd.	\$ 2,273	1%
Vancouver Coastal Health	\$ 6,302	29%
Waste Connections of Canada	\$ 79,091	7%
Waste Control Services Inc	\$ 16,655	4%
Waste Management of Canada Corporation	\$ 74,791	10%
WECO Waste Solutions Inc.	\$ 1,559	9%
Wescan Disposal	\$ 5,663	11%

* Does not include haulers with surcharge amounts less than \$1,000.

** Hauler surcharge rate is equal to the number of surcharges divided by the estimated number of inspections for each hauler. The estimated inspection rate is assumed to be equal to the overall inspection rate for that category of customer.

2025 Solid Waste Surcharge Summary

	Surcharge Amount
Metro Vancouver Facilities (\$ 512,812)	
- Commercial	\$ 443,717
- Municipal	\$ 15,785
- Cash Customers	\$ 53,310
City of Vancouver Facilities	\$ 35,179
Total	\$ 547,991

To: Zero Waste Committee

From: Sahar Ahmadvand, Assistant Project Engineer, Solid Waste Services
Kelly Du, Project Engineer, Solid Waste Services

Date: June 18, 2026

Meeting Date: July 2, 2026

Subject: **2025 Construction and Demolition Waste Composition, Reuse and Recycling**

RECOMMENDATION

THAT the Zero Waste Committee receive for information the report dated June 18, 2026, titled “2025 Construction and Demolition Waste Composition, Reuse and Recycling”.

EXECUTIVE SUMMARY

In 2024, 320,130 tonnes of construction and demolition waste were disposed of in Metro Vancouver, representing 24% of total solid waste disposed. The 2025 Construction and Demolition Waste Composition Study, typically conducted every three to four years, found that disposed wood made up 54% of the construction and demolition waste composition. Overall, construction and demolition waste is trending downwards, declining 7% from 2018 to 2022 and a further 14% from 2022 to 2025.

Metro Vancouver and its members are collaborating on construction and demolition waste reduction, reuse, and recycling. Examples include:

- a disposal ban on clean wood at Metro Vancouver and City of Vancouver solid waste facilities;
- a construction and demolition waste reduction forum;
- a regional construction and demolition working group;
- exploring opportunities to expand end markets for reclaimed wood;
- supporting a national initiative to scale circularity in pre-fab and modular construction; and
- supporting the removal of barriers to using recycled materials.

Preventing the disposal of valuable building materials is a key focus area of the draft solid waste management plan.

PURPOSE

To update the Zero Waste Committee on the results of the 2025 Construction and Demolition Waste Composition Study and provide an overview of Metro Vancouver initiatives to increase reduction, reuse, and recycling of construction and demolition materials.

BACKGROUND

Waste composition studies provide valuable estimates of the types and quantities of material disposed in the region and provide baseline data for the solid waste management plan update. This report provides the results of the 2025 Construction and Demolition Waste Composition Study and information on initiatives led or supported by Metro Vancouver that promote reuse and recycling of construction and demolition materials.

CONSTRUCTION AND DEMOLITION WASTE IN METRO VANCOUVER

Metro Vancouver tracks and reports on construction and demolition sector waste through three main data sources:

- Annual and biennial recycling and solid waste summaries, which include the estimated tonnes of construction and demolition material diverted and disposed;
- Construction and demolition waste composition studies, which estimate the composition of construction and demolition material disposed; and
- The Metro Vancouver Housing Data Book published by Metro Vancouver Regional Planning Services, which contains housing trends including the number of demolitions and construction starts in the region.

2024 Solid Waste Data Statistics

In 2024, 320,130 tonnes of construction and demolition waste were disposed in the Metro Vancouver region, which represents 24% of all solid waste disposed. The region diverted 1,378,127 tonnes of construction and demolition material, primarily concrete and wood. Asphalt was removed from the total diversion calculation in 2024, though the amount of recycled asphalt is reported separately. This change was made in response to feedback that recycled asphalt most commonly originates from street and roadway infrastructure.

Other construction and demolition materials such as gypsum, fibre (cardboard) and metals are also commonly recycled. Under Metro Vancouver's solid waste licensing bylaw *Municipal Solid Waste and Recyclable Material Regulatory Bylaw No. 181*, facilities that process construction and demolition materials require a license and must report quantities of commodities sent for recycling or recovery. In 2024, licensed private facilities did not report any recycled plastic quantities.

2025 Construction and Demolition Waste Composition Results

The 2025 Construction and Demolition Waste Composition Study (Reference 1), which is typically conducted every three to four years, analyzed the composition of construction and demolition material disposed of at the Vancouver Landfill and the Ecowaste Landfill, a private landfill in Richmond. Samples were visually categorized into material types by volume then converted to weight, based on the density of each material type. Waste composition studies calculate disposed material quantities using the most recent data available, which is typically from the prior year. For this report, 2024 construction and demolition disposal data was used, while the waste composition study itself was conducted in 2025. Table 1 compares the 2025 waste composition and total tonnage of each material type disposed in the region to the previous studies completed in 2018 and 2022.

Wood represented 54% of the construction and demolition waste stream, with the majority (85% of total wood) being painted, treated, or engineered (glued) wood products. Painted, treated, and engineered wood products are challenging to recycle due to the chemicals and glues used in manufacturing; therefore, a large portion of engineered wood products are disposed of.

From 2022 to 2025, disposed miscellaneous building materials, and soil and rubble decreased by roughly 32,800 tonnes. Total disposed wood decreased by approximately 2,770 tonnes between 2022 and 2025. Within the wood category, the largest reduction occurred in salvageable wood fixtures, which fell by about 11,000 tonnes. In contrast, painted, treated, and engineered wood increased by approximately 10,000 tonnes over the same period. Disposed plastic increased by approximately 9,000 tonnes, from 2022 to 2025 and represents the second largest component of construction and demolition waste. The overall reduction from 2022 to 2025 was approximately 52,000 tonnes of waste.

2025 Construction and Demolition Waste Composition, Reuse and Recycling

Zero Waste Committee Regular Meeting Date: July 2, 2026

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Overall, construction and demolition waste material is trending downwards and has decreased approximately 80,000 tonnes since 2018, a 7% decline from 2018 to 2022 and a further 14% decline from 2022 to 2025.

Table 1: Comparison of Construction & Demolition Waste Disposed by Material Type

Material Category by Type	% by Weight			Annual Weight (Tonnes)		
	2018	2022	2025	2018	2022	2025
Wood (total)	61	48	54	243,179	177,011	174,241
<i>Clean Wood¹</i>	-	6	6	-	20,725	18,851
<i>Painted, Treated & Engineered Wood¹</i>	-	37	46	-	137,770	147,878
<i>Salvageable Wood Fixtures^{1,2}</i>	-	6	2	-	18,516	7,512
Land Clearing	1	4	1	2,000	14,944	4,564
Paper	2	2	3	6,399	6,168	10,648
Plastic	12	10	14	45,996	35,674	44,957
Concrete	<1	2	1	1,600	7,593	3,259
Asphalt	5	6	4	19,598	21,407	12,959
Metals	4	4	7	16,799	13,044	21,887
Masonry	1	2	1	4,000	7,316	3,619
Misc. Building Material ³	4	6	2	16,399	22,880	6,792
Glass and Ceramics	2	2	1	7,199	6,674	4,253
Rubble/Soil	6	6	2	25,598	22,770	6,088
Household Garbage	2	5	1	5,999	19,956	4,187
Textiles	<1	1	3	1,000	3,529	10,387
Bulky Items	1	1	1	2,400	5,005	2,734
Rubber	<1	2	1	1,600	6,244	4,083
Miscellaneous	<1	<1	2	200	1,757	5,471
Total ^{4,5}	100	100	100	399,965	371,972	320,130

¹Secondary categories of clean wood, painted, treated, engineered wood and salvageable wood fixtures were not tracked for 2018.

²Salvageable wood fixtures include cabinets, shelves and doors. In 2022, salvageable wood fixtures were added as a category to the waste composition data.

³Miscellaneous building material includes stucco, insulation, carpet, and other building materials not covered by other defined categories.

⁴Numbers may not add up to totals due to rounding, whole numbers were used to calculate totals.

⁵Calculated disposed material quantities for waste composition studies use data from the prior year based on availability.

Disposal Ban Program

Since 2015, clean wood has been banned for disposal in the Tipping Fee Bylaw, since clean wood has reliable landscaping, farming, and engineered fuel markets. The bylaw is enforced through inspection

and tipping fee surcharges, with a five percent threshold for clean wood. This program continues to help keep readily recyclable wood from being disposed of as garbage.

Home Demolition Waste Prevention Forum

Metro Vancouver provided financial and staff support for a regional construction and demolition waste prevention forum delivered in partnership with Light House and Renewal Development (and partially funded by the Research and Knowledge Initiative federal grant). The June 2025 event brought together member jurisdictions, other local governments outside of the region, and industry to advance solutions such as deconstruction, house relocation, and material reuse.

Regional Construction and Demolition Waste Reduction Working Group

Formed in 2025 to tackle the challenge of preventing wood waste, the working group includes staff from Metro Vancouver and member jurisdictions. The working group has identified four key priorities:

- updating the Construction and Demolition Waste Reduction Toolkit;
- improving consistency of construction and demolition data and alignment with municipal bylaws;
- assessing end markets for reclaimed materials (particularly wood); and
- expanding targeted industry engagement.

Progress to date includes development of draft templates to harmonize data collection, definitions, and reporting across member jurisdictions.

Expanding End Markets for Reclaimed Wood in Metro Vancouver – University of British Columbia Sustainability Scholars Program

Metro Vancouver has hired a University of British Columbia graduate researcher for the 2026 University of British Columbia Sustainability Scholars Program to lead research on expanding end markets for reclaimed wood from construction and demolition activities. Through this initiative, the scholar will perform interviews and undertake targeted analysis of existing markets, barriers to reuse, and opportunities to strengthen wood recovery and market development in the region. The study looks at how best to address the lack of reliable end markets for salvaged wood, which is a current barrier for advancing projects and policies for wood waste prevention.

Scaling Circularity in Pre-Fab and Modular Construction in Canada

Metro Vancouver, through the National Zero Waste Council, is supporting a two-year initiative led by Generate Canada under its Circular Construction Canada solution space, focused on scaling circularity in prefabricated and modular construction for new buildings. This project convenes a leadership group of 12–15 industry and government organizations from across Canada that meet regularly to identify barriers and co-develop solutions to advance circular design and material reuse. Key areas of focus include design for adaptability and disassembly, integration of recycled materials such as wood, plastics, insulation, and textiles, and linking circular approaches to housing affordability and lifecycle cost reductions (References 2 and 3).

Construction Plastics Initiative by Light House

Metro Vancouver supported Light House's Construction Plastics Initiative through a letter of support for a Government of BC CleanBC Plastic Action Fund application. Provincial funding enabled a pilot that demonstrated strong potential for construction plastics diversion. The project's April 2026 final report shows that approximately 77% of the plastics generated on construction sites can be recycled when proper sorting systems are in place. The project also demonstrated that recovered plastics can be processed and reintegrated into new construction products, confirming the feasibility of a circular value chain (Reference 4).

Master Municipal Construction Documents Association Updates

In 2025, Metro Vancouver completed a study examining the challenges and opportunities associated with recycling concrete and asphalt, identifying both environmental and financial benefits, including reduced greenhouse gas emissions, increased waste diversion, and reduced reliance on virgin aggregates. The study found that significant volumes of recycled aggregates are already generated in the region, representing a strong opportunity to expand their use in construction and infrastructure projects. Since its launch in April 2024, Metro Vancouver staff have participated in the Master Municipal Construction Documents (MMCD) Civil Committee to support updates to specifications that enable the use of recycled materials. In April 2026, the association released supplemental specification updates that broaden allowable applications for recycled aggregates and removed certain approval barriers, which is expected to facilitate increased uptake. Member jurisdictions are encouraged to align policies and practices with these updates to further support the use of recycled concrete and asphalt (Reference 5).

Solid Waste Management Plan Update

One of the key focus areas of the draft Solid Waste Management Plan is expanding efforts to prevent the disposal of valuable building materials. This will involve working with economic development agencies, researchers, and the construction and demolition sector to develop, pilot, and share improved approaches for keeping building materials at their highest and best use. Priorities include enabling house relocation, deconstruction programs, and expansion of local reuse markets, advancing opportunities for the highest-value use of wood, and supporting efforts to offset fossil fuel use by recovering energy from building materials that are not currently recyclable.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

Metro Vancouver's waste composition program and initiatives to encourage diversion of construction and demolition materials are carried out within the existing solid waste services budget.

CONCLUSION

In 2024, approximately 320,130 tonnes of construction and demolition waste were disposed of in Metro Vancouver, accounting for 24% of all disposed materials. While wood remains the largest component, representing 54% of the construction and demolition waste stream, overall disposal in this stream has been trending downward, a 7% decrease from 2018 to 2022 and a further 14% decrease from 2022 to 2025, with continued opportunities to further divert wood and other materials. This progress reflects a combination of initiatives led or supported by Metro Vancouver in collaboration with member jurisdictions and broader regional and national partners. Work includes policy development, research, market expansion for reclaimed wood, and cross-sector collaboration to scale circularity in prefabricated and modular construction. Additional measures such as the clean wood disposal ban, updates to the Master Municipal Construction Documents to remove barriers to recycled content, and ongoing coordination through the Construction and Demolition Regional Working Group further support waste reduction efforts. The draft Solid Waste Management Plan reinforces this direction by prioritizing circular design, increased deconstruction, and expanded reuse of salvaged materials, positioning the region to continue reducing disposal while advancing a more circular approach to managing building materials.

ATTACHMENTS

1. Presentation: 2025 Construction and Demolition Materials Waste Composition, Reuse and Recycling.

REFERENCES

1. Tetra Tech. (2025). Metro Vancouver 2025 Construction & Demolition Waste Composition Study. Metro Vancouver: <https://metrovanancouver.org/services/solid-waste/reports-resources>
2. Circular Construction Canada. (2026). Maximizing Material Productivity to Cut Costs and Carbon. Unlocking Canada's Full Circular Construction Potential: [CCIH Overview \(April 2026\).pptx](#)
3. External Agency Status Report for the National Zero Waste Council. [MVRD Board Meeting On Table Package - May 29, 2026](#)
4. Light House. (2026). Construction Plastics Initiative. Findings from a pilot study examining the recovery, recycling, and circular potential of construction-phase plastics in Metro Vancouver. Final Report: [lh-cpi-report-042726.pdf](#)
5. *Manager's report.* [Zero Waste Committee Agenda Package - June 11, 2026](#)



North Vancouver Transfer Station

2025 Construction and Demolition Waste

COMPOSITION, REUSE AND RECYCLING

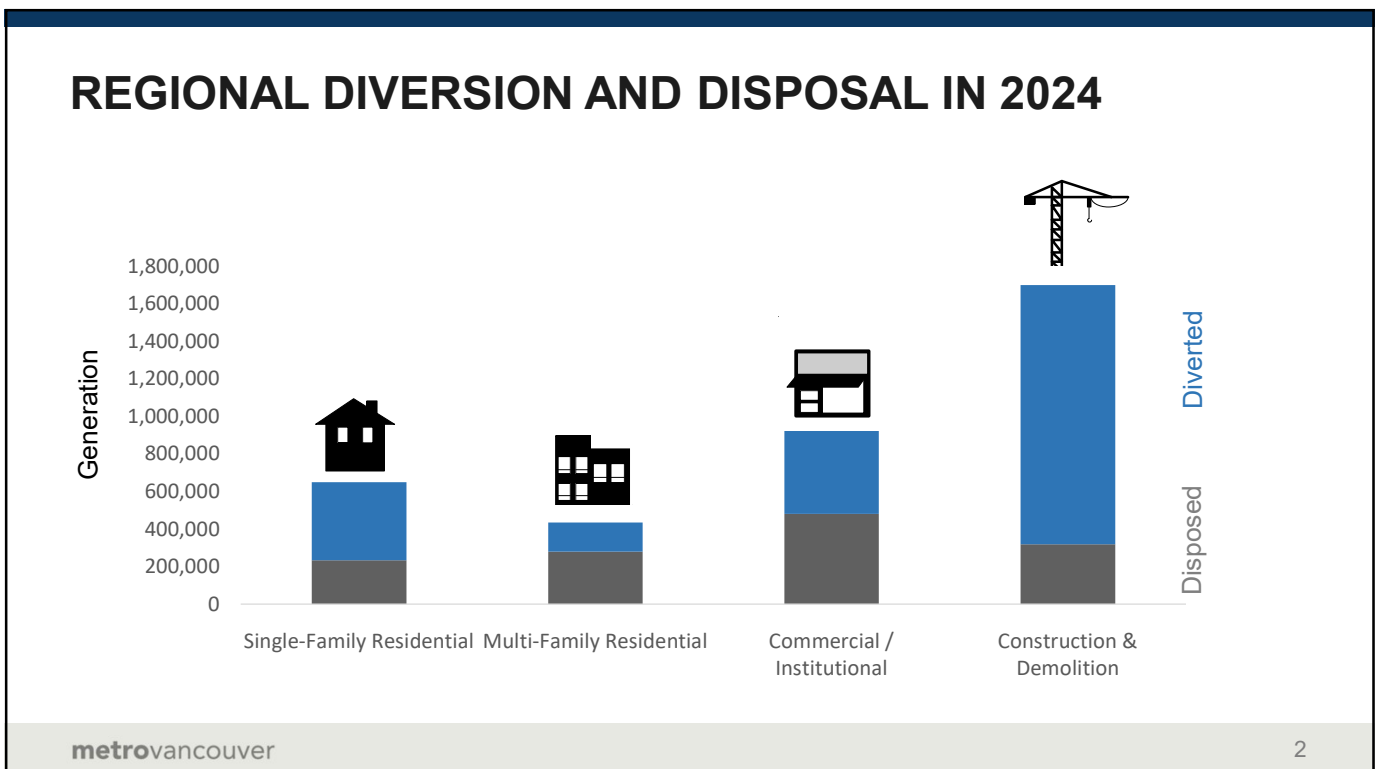
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Zero Waste Committee Meeting July 2, 2026
<https://orbit.gvrd.bc.ca/orbit/lisapi.dll/app/nodes/86055345>

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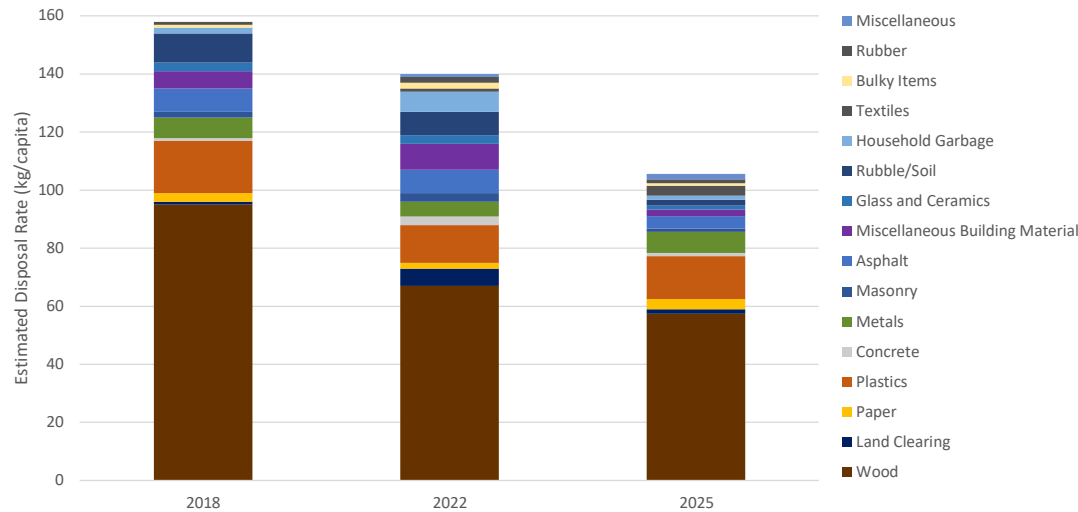
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2025 CONSTRUCTION & DEMOLITION WASTE COMPOSITION

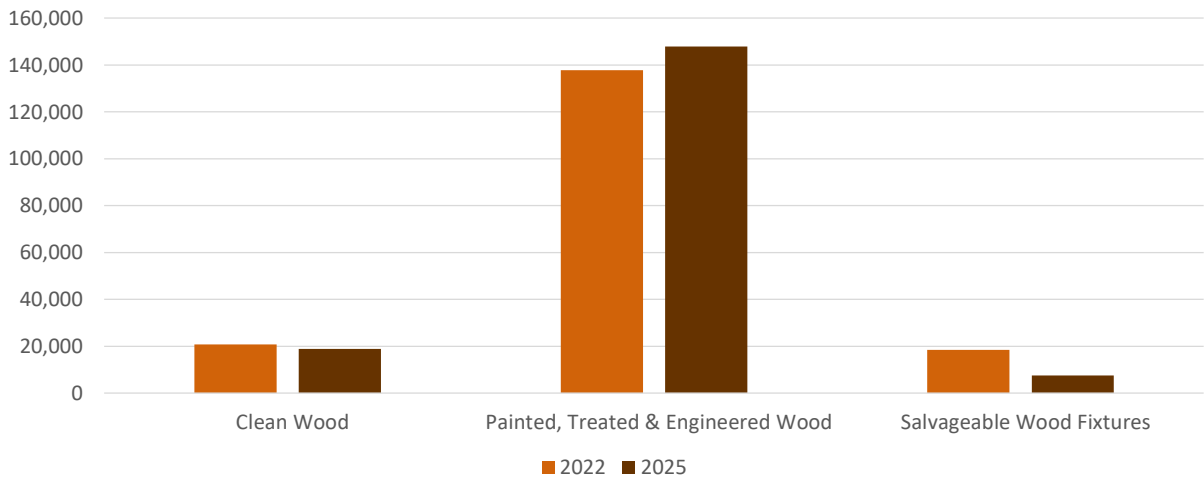


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2025 CONSTRUCTION & DEMOLITION WOOD WASTE COMPOSITION



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REDUCE, REUSE AND RECYCLING INITIATIVES

Led by Metro Vancouver, members, regional and national partners

- Disposal Ban Program
- Home Demolition Waste Prevention Forum
- Regional C&D Waste Reduction Working Group
- Expanding end markets for reclaimed wood
- Scaling Circularity in Pre-fab & Modular Construction in Canada
- Construction Plastics Initiative by Light House
- Master Municipal Construction Documents Association updates



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REGIONAL C&D WASTE REDUCTION WORKING GROUP

Priorities identified in 2025

- Update C&D Waste Reduction Toolkit
- Improve consistency of C&D data and alignment with municipal bylaws
- Assess and improve end markets for salvaged wood
- Expand targeted industry engagement



Old barn at Minnekhada Regional Park with old growth lumber

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SOLID WASTE MANAGEMENT PLAN UPDATE

Construction and Demolition Materials

- Reduce disposal of valuable building materials
- Collaborate with the construction and demolition sector
- Expand reuse through house relocation, deconstruction programs, and stronger local markets
- Support energy recovery from non-recyclable building materials

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North Shore Recycling and Waste Centre

Questions?

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To: Liquid Waste Committee

From: Peter Navratil, General Manager, Liquid Waste Services

Date: July 8, 2026

Meeting Date: July 15, 2026

Subject: **Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services**

RECOMMENDATION

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”.

EXECUTIVE SUMMARY

The Draft Five Year Capital Plan for Liquid Waste Services has been prepared following direction received at the April 15, 2026 Board Budget Workshop to prepare the Financial Plan and proceed through the 2027 budget cycle with household impact (HHI) targets as follows: 2027 at 3.0% and 2028 to 2031 at 5.0%.

Liquid Waste Services estimates capital spending of \$7.6 billion over the five years funded by a combination of long-term debt, reserves, contributions from the operating budget, some external contributions from other agencies, as well as Development Cost Charges (DCC) specifically funding growth projects. The net change from the previous five-year plan is an overall increase of \$784.8 million.

PURPOSE

To present to the Liquid Waste Committee the Draft Liquid Waste 2027 – 2031 Capital Plan (**Attachment 1**) for input and feedback, which will then be incorporated into the Fall Budget approval process.

BACKGROUND

On April 15, 2026, Metro Vancouver held a Board Budget Workshop seeking direction for the preparation of the 2027 – 2031 Financial Plan. This report provides the Liquid Waste Committee with the information needed to provide comments on the Draft 2027 – 2031 Capital Plan which will then be incorporated into the 2027 – 2031 Financial Plan scheduled to be presented in October.

Liquid Waste Service Objectives

Projects within the Draft 2027 – 2031 Capital Plan are guided by the Liquid Waste Service Objectives specifically:

- Eliminate unauthorized discharges from the sewer system
- Ensure that authorized Wastewater Treatment Plant (WWTP) discharges meet regulatory requirements
- Improve environmental stewardship
- Minimize timeline to recover from a major event

On an ongoing basis, staff monitor and evaluate the performance of the Liquid Waste infrastructure and its ability to achieve and/or maintain the service objectives. Where risks to service objectives are identified, mitigation actions are planned and incorporated into annual work plans. These actions may take the form of changes to operating and maintenance strategies, changes to infrastructure or the

development of emergency response procedures. The projects in the Capital Plan include the infrastructure changes required to achieve the Liquid Waste Service Objectives on an ongoing basis.

CAPITAL PLAN HIGHLIGHTS

The Draft Liquid Waste 2027 – 2031 Capital Plan includes planned capital expenditures of \$1,260.2 million for 2027 and a total of \$7.6 billion over the five years, with an average expenditure of \$1,516.2 million per year (see Attachment 1). It should be noted that out of the 149 projects on the 5-year plan, the largest four projects make up 67.8% of the capital spending.

The spending over the next five years is driven by infrastructure changes required as a result of:

- Growth in the number of residents moving into the region, creating an increased demand for services (Growth);
- Changing conditions that impact the ability to meet service objectives like regulatory requirements including the federally mandated requirement for all wastewater treatment plants in Canada to meet a minimum of secondary level treatment and infrastructure required to achieve a service objective (Upgrade);
- Need for replacement or refurbishment of existing infrastructure to ensure that it continues to perform as required to meet the service objectives (Maintenance);
- Ensuring that infrastructure is resilient to major events including power outages, seismic events and the results of climate change (Resilience); and
- Opportunities to reduce the life-cycle cost of services and/or achieve Board goals such as climate change mitigation (Opportunity).

Table 1 below outlines the key capital projects planned or ongoing in 2027 – 2031 for Liquid Waste Services.

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

Infrastructure Type	Project Name	Infrastructure Driver	2027 Capital Expenditures
Wastewater Treatment	North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning	Upgrade	\$761.2M
Wastewater Treatment	Iona Island Wastewater Treatment Plant	Upgrade	\$124.6M
Wastewater Treatment	Northwest Langley Wastewater Treatment Program	Growth	\$112.8M
Wastewater Treatment	AIWWTP Stage 5 Expansion	Growth	\$49.5M
Wastewater Treatment	Annacis Outfall System	Growth	\$22.7M
Collections	NSI SSO Storage	Upgrade	\$17.3M
Collections	Gleneagles Forcemain Replacement	Maintenance	\$10.4M
Collections	Stoney Creek Sanitary Trunk	Growth	\$8.7M
Other Projects			\$153M
Total 2027			\$1,260.2M

The Capital Program for Liquid Waste Services is funded by long-term debt, reserves, contributions from the operating budget, some external contributions from other agencies, as well as Development Cost Charges (DCCs) specifically funding growth projects.

Capital Plan Changes

Metro Vancouver's annual capital planning process allows the Board to adjust the capital budget once a year, in the fall, to accommodate changes required to fund projects in response to new or changing project needs, emerging issues, and changing priorities. The completion of multi-year projects is complex and subject to change due to a variety of factors including delays in construction timing caused by global events, escalation in construction costs, changes in scope and permitting processes.

Capital Plan Review Process

Liquid Waste Services and Project Delivery staff carefully reviewed the project schedules to accommodate any carryforwards and cost adjustments by deferring project phases where possible. Throughout the capital planning process, staff review each project line to ensure efficient project timing, deliverability and scope.

ALTERNATIVES

This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS

The Draft Liquid Waste 2027 – 2031 Capital Plan estimates capital expenditures of \$7.6 billion over the five years, funded by a combination of long-term debt, reserves, contributions from the operating budget, some external contributions from other agencies, and Development Cost Charges (DCCs) specifically funding growth projects.

The \$7.6 billion estimated capital expenditure over five years is allocated to the following asset classes:

- Collections: \$1.4B
- Treatment Plants: \$6.2B

The average estimated capital expenditures are approximately \$1,516.2 million per year and the net change from the previous five year plan is an increase of \$784.8 million. This increase is a result of the 2031 expenditures being added into the 5 year window and the current year (2026) falling off, as well as adjustments to the schedules and estimates of projects as more up to date information is available.

Table 2. Draft Five Year Capital Plan (2027 – 2031) – Liquid Waste Services

	2027	2028	2029	2030	2031	DRAFT 5 YEAR CAPITAL PLAN (2027-2031)
Total Capital Expenditures (\$M)	\$1,260.2	\$1,639.5	\$1,613.6	\$1,542.0	\$1,525.6	\$7,580.9

This report provides an opportunity for the Liquid Waste Committee to provide feedback, which will then be incorporated into the 2027 Annual Operating Budget and Five-Year Financial Plan presentations to the Committees and the GVS&DD Board at the fall Board Budget Workshop.

OTHER IMPLICATIONS

There are no other implications.

CONCLUSION

The Draft Liquid Waste 2027 – 2031 Capital Plan (**Attachment 1**) is the consolidated list of infrastructure projects required to meet and maintain the regional Liquid Waste Service Objectives and the estimated costs of these projects over the next five years.

Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services

Liquid Waste Committee Regular Meeting Date: July 15, 2026

Page 4 of 4

The Draft 2027 – 2031 Capital Plan Presentation (**Attachment 2**) provides the opportunity for the Liquid Waste Committee to provide feedback, which will then be incorporated into the Liquid Waste Capital Plan and included in the October budget presentations to the Liquid Waste Committee and the GVS&DD Board.

ATTACHMENTS

1. Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services.
2. Draft Five Year Capital Plan (2027 – 2031) Liquid Waste Services Presentation.

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**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
CAPITAL EXPENDITURES									
Collections									
104th Ave PS and FM for Redirection to NLWWTP	\$ 8,000,000	\$ 1,450,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 13,450,000	Design	Growth
8th Avenue Interceptor Air Treatment Facilities	1,450,000	50,000	450,000	600,000	2,600,000	3,000,000	6,700,000	Design	Upgrade
Baynes Road Pump Station Redirection	—	—	—	100,000	1,100,000	2,000,000	3,200,000	Not Started	Maintenance
Big Bend Forcemain - Gate Replacement	2,700,000	150,000	1,700,000	300,000	—	—	2,150,000	Construction	Maintenance
Burnaby Lake North Interceptor Winston Section	114,500,000	600,000	2,000,000	550,000	—	—	3,150,000	Construction	Growth
Burnaby South Slope Interceptor	300,000	—	50,000	250,000	300,000	1,350,000	1,950,000	Not Started	Growth
Cloverdale Pump Station Capacity Upgrade	11,650,000	650,000	1,100,000	1,300,000	2,100,000	5,550,000	10,700,000	Construction	Growth
Cloverdale Trunk Sewer Capacity Upgrade	4,950,000	400,000	700,000	2,000,000	1,400,000	9,000,000	13,500,000	Design	Growth
CN Thornton Railyard Expansion	500,000	500,000	—	—	—	—	500,000	Construction	Maintenance
Columbia Forcemain (CLT) Rehabilitation	16,000,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Combined Sewer Overflow Sampling Station Enhancements	4,000,000	575,000	711,000	—	—	—	1,286,000	Construction	Maintenance
Crescent Beach FM - Replacement	34,350,000	20,000	20,000	20,000	—	—	60,000	Construction	Maintenance
Eagle Creek (Lower Section) Channel Restoration	750,000	50,000	700,000	—	—	—	750,000	Construction	Resilience
EMQC-Chemistry Laboratory	17,200,000	450,000	6,150,000	8,250,000	1,150,000	—	16,000,000	Construction	Upgrade
Flood Protection for Langley Pump Station	—	—	350,000	250,000	4,440,000	—	5,040,000	Not Started	Maintenance
Fraser Sewerage Area Integrated Resource Recovery (IRR) Study	700,000	150,000	100,000	—	—	—	250,000	Design	Opportunity
FSA Flow Metering Program	4,300,000	290,035	625,000	—	—	—	915,035	Construction	Maintenance
FSA River Crossing Scour Protection Program - Phase 1	4,450,000	480,000	1,400,000	500,000	—	—	2,380,000	Construction	Maintenance
FSA Sewer Relocations and Protections	3,100,000	1,000,000	350,000	400,000	450,000	—	2,200,000	Construction	Maintenance
FSA Statutory Right of Way Acquisitions Phase 1	25,450,000	1,400,000	—	—	—	—	1,400,000	Design	Maintenance
Gilbert/Brighthouse Trunk Pressure Sewer	209,750,000	3,920,000	7,450,000	250,000	7,050,000	5,000,000	23,670,000	Multiple	Maintenance
Glenbrook Combined Trunk Kingsway Sanitary Section	9,250,000	995,000	948,000	—	—	—	1,943,000	Construction	Growth
Glenbrook Combined Trunk Sewer Separation	4,700,000	1,450,000	2,450,000	2,450,000	3,450,000	3,500,000	13,300,000	Design	Upgrade
Glenbrook CSO Gate Replacement	7,100,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Gleneagles Forcemain Replacement	27,600,000	10,350,000	1,938,000	2,000,000	—	—	14,288,000	Construction	Maintenance
Gleneagles Pump Stations Improvements	29,800,000	770,000	1,420,000	3,550,000	13,510,000	10,456,000	29,706,000	Design	Maintenance
Goulet and Noble Sediment Basin Improvements	5,000,000	2,500,000	2,500,000	—	—	—	5,000,000	Construction	Maintenance
Harbour PS Air Treatment Facilities	—	—	150,000	350,000	300,000	1,750,000	2,550,000	Not Started	Upgrade

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
Harbour Pump Station Discharge Header Repair and Valve Replacements	5,350,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Harbour Pump Station Power Distribution Equipment Replacement	5,350,000	1,389,169	321,035	—	—	—	1,710,204	Construction	Maintenance
Harbour Sewerage Pump Station - Suction Piping Replacement	5,850,000	2,168,916	2,013,916	—	1,148,349	—	5,331,181	Construction	Maintenance
Highbury Interceptor Diversion Junction Chamber Wall Rehabilitation	7,400,000	480,000	4,632,000	1,550,000	—	—	6,662,000	Construction	Maintenance
Highbury Street Sanitary Trunk Sewer Rehabilitation	—	—	300,000	2,000,000	—	—	2,300,000	Not Started	Maintenance
Hollyburn Interceptor - Kew Road Section	—	—	50,000	250,000	1,700,000	2,050,000	4,050,000	Not Started	Maintenance
Hudson Forcemain Rehabilitation Phase 2/3	3,150,000	600,000	1,980,000	1,000,000	—	—	3,580,000	Construction	Maintenance
Jervis Pump Station 25kV Voltage Conversion	1,300,000	700,000	—	—	—	—	700,000	Construction	Maintenance
Jervis Sewerage Pump Station - Suction Piping Replacement	6,050,000	2,314,135	2,159,135	—	1,235,481	—	5,708,751	Construction	Maintenance
Kent Pump Station High Voltage Switchgear Replacement	4,200,000	1,328,720	—	—	—	—	1,328,720	Construction	Maintenance
Lozells Sewer Protection Works	600,000	600,000	—	—	—	—	600,000	Construction	Maintenance
LWS Pump Station Programmable Logic Controller Replacements	1,400,000	400,000	465,000	695,000	1,165,000	—	2,725,000	Multiple	Opportunity
Marshend Pump Station	40,750,000	6,150,000	17,650,000	7,250,000	4,000,000	—	35,050,000	Construction	Growth
New West Interceptor - Annacis Section 2	51,050,000	2,329,713	14,381,957	4,190,978	4,600,000	5,000,000	30,502,648	Construction	Maintenance
New Westminster Interceptor Repair Columbia St. Section	41,450,000	3,825,796	3,500,000	—	—	—	7,325,796	Construction	Maintenance
New Westminster Interceptor West Branch and Columbia Extension Rehabilitation	121,700,000	1,284,810	23,775,300	47,200,600	23,363,000	21,640,000	117,263,710	Construction	Maintenance
North Road Trunk Sewer	28,600,000	4,946,000	2,414,500	1,000,000	500,000	—	8,860,500	Construction	Growth
North Surrey Interceptor - Port Mann Section - Odour Control	27,600,000	550,000	2,300,000	4,000,000	4,000,000	500,000	11,350,000	Construction	Upgrade
North Surrey Interceptor Improvements	149,950,000	2,680,218	17,160,000	22,349,998	43,400,000	46,500,000	132,090,216	Multiple	Maintenance
North Surrey Interceptor Twinning	—	—	—	—	500,000	1,000,000	1,500,000	Not Started	Growth
NSA Flow Metering Program	3,100,000	423,164	—	—	—	—	423,164	Construction	Maintenance
NSA Scour Protection Upgrades	7,750,000	1,000,000	1,000,000	30,000	30,000	30,000	2,090,000	Construction	Maintenance
NSI SSO Storage	196,950,000	17,289,528	32,424,464	51,310,000	51,929,507	20,200,000	173,153,499	Construction	Upgrade
NSSA Sewer Relocations and Protections	450,000	75,000	—	—	—	—	75,000	Construction	Maintenance
NVI Lynn Branch Siphon – SSO Treatment	1,100,000	—	749,999	2,700,000	2,850,000	5,400,000	11,699,999	Design	Upgrade
NWP Dip Investigation and Repair	4,500,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Ocean Park Trunk - Crescent Beach PS Section Replacement	1,150,000	50,000	750,000	1,050,000	1,550,000	8,440,000	11,840,000	Design	Maintenance
Ocean Park Trunk Manholes Lining	1,100,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Port Coquitlam Pump Station Overflow	250,000	210,000	1,000,000	3,000,000	—	—	4,210,000	Design	Resilience
Port Coquitlam Pump Station Refurbishment	13,850,000	2,150,000	2,150,000	2,150,000	14,976,667	65,560,000	86,986,667	Design	Maintenance
Port Moody Forcemain Replacement	1,500,000	50,000	1,950,000	3,500,000	1,500,000	11,500,000	18,500,000	Design	Maintenance
Port Moody Pump Station Capacity Upgrade	2,250,000	600,000	880,000	300,000	1,150,000	10,000,000	12,930,000	Design	Growth

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
Port Moody South Interceptor Capacity Upgrade	—	—	150,000	150,000	2,050,000	1,000,000	3,350,000	Not Started	Growth
Port Moody Storm Drain Rehabilitation	2,850,000	450,000	—	—	—	—	450,000	Construction	Maintenance
Production Way Operation Centre	54,150,000	2,411,001	8,614,000	15,279,999	25,165,000	1,080,000	52,550,000	Multiple	Upgrade
Rosemary Heights Pressure Sewer Capacity Upgrade	—	—	350,000	500,000	700,000	2,500,000	4,050,000	Not Started	Growth
Royal Ave PS Rehabilitation	15,250,000	50,000	—	—	—	—	50,000	Construction	Maintenance
Sapperton Pump Station	105,100,000	550,000	2,198,000	5,250,000	4,550,000	—	12,548,000	Construction	Growth
Sapperton Pump Station Emergency Backup Power	5,000,000	1,250,000	1,650,000	500,000	400,000	—	3,800,000	Construction	Resilience
Sewer Heat Projects	71,500,000	250,000	10,150,000	19,400,000	25,475,000	16,075,000	71,350,000	Construction	Opportunity
South Surrey Interceptor & North Surrey Interceptor - Fraser River Crossing	8,500,000	1,350,000	5,450,000	5,050,000	10,450,000	66,000,000	88,300,000	Design	Growth
South Surrey Interceptor Johnston Section	98,300,000	515,000	—	—	—	—	515,000	Construction	Growth
South Surrey Interceptor Rehabilitation	6,800,000	1,405,108	23,736,217	23,681,057	15,626,597	10,330,000	74,778,979	Multiple	Maintenance
Spanish Banks PS HV Switchgear Replacement	850,000	460,000	1,750,000	2,500,000	—	—	4,710,000	Design	Maintenance
SSI Delta - Air Management Facility Construction	17,950,000	427,512	—	—	—	—	427,512	Construction	Upgrade
SSI Influent Control Chamber Repair and Replace Gates	1,300,000	510,000	400,000	—	—	—	910,000	Construction	Maintenance
Still Creek Culvert Rehabilitation - Gilmore section	2,150,000	338,001	1,468,999	—	—	—	1,807,000	Construction	Maintenance
Stoney Creek Sanitary Trunk	156,900,000	8,721,715	57,068,404	45,950,318	17,288,213	14,418,375	143,447,025	Construction	Growth
Surrey Corrosion Control Facility Replacement	11,250,000	851,219	5,160,510	3,000,000	—	—	9,011,729	Construction	Maintenance
VSA Emergency Backup Power	29,300,000	1,000,000	—	—	—	—	1,000,000	Construction	Resilience
VSA Flow Metering Program	8,700,000	1,350,000	1,600,000	1,100,000	1,200,000	700,000	5,950,000	Construction	Maintenance
VSA Grit Chamber Access Improvements	3,550,000	2,573,063	732,000	—	—	—	3,305,063	Construction	Maintenance
VSA Sewer Relocations and Protections	24,050,000	100,001	—	49,999	400,000	2,000,000	2,550,000	Construction	Maintenance
VSA Statutory Right of Way Acquisitions Phase 1	7,500,000	2,600,000	—	—	—	—	2,600,000	Construction	Maintenance
Westridge FM Replacement	13,900,000	1,441,550	1,775,000	—	—	—	3,216,550	Construction	Maintenance
Westridge Pump Stations 1 & 2 Refurbishment	44,250,000	7,030,000	8,410,000	8,050,000	8,510,000	—	32,000,000	Construction	Maintenance
White Rock Forcemain Rehabilitation	14,850,000	1,285,702	5,485,702	5,714,089	1,039,585	—	13,525,078	Construction	Maintenance
White Rock Pump Station Upgrades	2,000,000	500,000	1,350,000	800,000	1,200,000	950,000	4,800,000	Design	Growth
Total Collections	\$ 1,989,200,000	\$ 119,465,076	\$ 307,768,138	\$ 318,622,038	\$ 314,502,399	\$ 357,479,375	\$ 1,417,837,026		
Treatment Plants									
AIWWTP Ammonia Removal – Sidestream	\$ 22,800,000	\$ 1,200,000	\$ 1,500,000	\$ 3,440,000	\$ 5,150,000	\$ 3,530,000	\$ 14,820,000	Design	Upgrade
AIWWTP Bar Screen #1 Refurbishment	2,550,000	988,500	—	—	—	—	988,500	Construction	Maintenance
AIWWTP Centrifuge Schwing HPU Replacement	1,350,000	100,000	—	—	—	—	100,000	Construction	Maintenance
AIWWTP Cogeneration Backup Power	81,100,000	125,000	—	—	—	—	125,000	Construction	Resilience
AIWWTP DAF Polymer System Upgrade	1,550,000	100,000	590,000	3,480,000	1,670,000	2,160,000	8,000,000	Design	Maintenance

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AIWWTP Digesters No. 9 and 10 (formerly Digester No. 5)*	6,900,000	3,000,000	14,000,000	40,400,000	59,300,000	106,000,000	222,700,000	Design	Growth
AIWWTP Electrical Distribution System Protection Control and Monitoring	2,650,000	75,000	250,000	—	—	—	325,000	Construction	Upgrade
AIWWTP Hydrothermal Processing Pilot	44,000,000	5,909,000	498,000	600,000	—	—	7,007,000	Construction	Opportunity
AIWWTP ICS Replacement Program	14,350,000	4,000,000	2,750,000	2,500,000	1,050,000	—	10,300,000	Construction	Maintenance
AIWWTP ICS Replacement Program Phase 2	—	—	—	575,000	2,000,000	2,600,000	5,175,000	Not Started	Maintenance
AIWWTP Influent System Remediation	129,750,000	1,487,501	19,701,249	21,100,000	2,900,000	7,850,000	53,038,750	Construction	Maintenance
AIWWTP IPS Pump Building Roof Replacement Phase 2	1,150,000	50,000	—	—	—	—	50,000	Construction	Maintenance
AIWWTP Lubrication Storage Facility Conversion	2,500,000	190,000	1,800,000	400,000	—	—	2,390,000	Construction	Maintenance
AIWWTP O&M Building Refurbishment	9,600,000	600,000	3,450,000	2,150,000	1,700,000	1,700,000	9,600,000	Construction	Maintenance
AIWWTP Outfall Repair	1,000,000	50,000	500,000	500,000	4,800,000	4,850,000	10,700,000	Design	Maintenance
AIWWTP Process Waste Drain Line Refurbishment	3,150,000	200,000	—	—	—	—	200,000	Construction	Maintenance
AIWWTP Scum Pump Replacement	1,250,000	500,000	500,000	—	—	—	1,000,000	Construction	Maintenance
AIWWTP Secondary Clarifier Corrosion Repair	36,300,000	450,000	400,000	—	—	—	850,000	Construction	Maintenance
AIWWTP Sludge Control Building Electrical Room HVAC Upgrade	2,100,000	1,005,000	—	—	—	—	1,005,000	Construction	Maintenance
AIWWTP Stage 5 Expansion*	1,340,400,000	49,500,000	102,750,000	86,800,000	63,200,000	94,600,000	396,850,000	Multiple	Growth
AIWWTP Stage 5 Expansion - Optimization Works*	18,600,000	4,500,000	5,000,000	3,500,000	3,850,000	—	16,850,000	Construction	Growth
AIWWTP TF Pump 5 VFD Upgrade	1,900,000	250,000	400,000	850,000	250,000	100,000	1,850,000	Construction	Resilience
AIWWTP Trickling Filter Media & Distributor Arms & Ducting Replacement	90,700,000	50,000	—	—	—	—	50,000	Construction	Maintenance
AIWWTP UPS Condition Monitoring System	550,000	50,000	100,000	100,000	150,000	150,000	550,000	Construction	Resilience
Annacis Influent System Surge Control Refurbishment	22,000,000	2,000,000	1,900,000	—	—	—	3,900,000	Construction	Growth
Annacis Outfall System*	356,050,000	22,697,721	—	—	—	—	22,697,721	Construction	Growth
AREC Commodities Line Improvements Project	7,000,000	1,650,000	2,850,000	1,450,000	850,000	—	6,800,000	Construction	Maintenance
IIWWTP Biosolids Dewatering Facility	66,300,000	409,000	200,000	120,000	—	—	729,000	Construction	Upgrade
IIWWTP ICS IPS Control Replacement	1,750,000	300,000	300,000	—	—	—	600,000	Construction	Maintenance
IIWWTP ICS Migration Program	4,000,000	150,000	1,000,000	2,750,000	2,750,000	2,750,000	9,400,000	Design	Maintenance
IIWWTP ICS Replacement Program	750,000	50,000	—	—	—	—	50,000	Construction	Maintenance
IIWWTP IPS Drive Remediation	3,300,000	570,000	450,000	410,000	745,000	—	2,175,000	Construction	Maintenance
IIWWTP Medium Pressure Sludge Gas Blowers 3 & 4 Power Supply	950,000	215,000	145,000	170,000	—	—	530,000	Construction	Resilience
IIWWTP Outfall Refurbishment*	16,300,000	3,350,000	42,000,000	53,000,000	87,000,000	41,000,000	226,350,000	Design	Maintenance
IIWWTP PA Tanks Improvement	7,500,000	500,001	49,999	1,625,000	1,625,000	1,625,000	5,425,000	Construction	Maintenance
IIWWTP PA-Sed Tank & Gallery Wall Refurbishment	950,000	50,000	—	—	—	—	50,000	Construction	Maintenance
IIWWTP Replacement of CoGen Control System	2,500,000	100,000	—	—	—	—	100,000	Construction	Maintenance

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
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	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
IIWWTP Solids Handling Refurbishment	63,850,000	2,900,000	—	—	—	—	2,900,000	Construction	Maintenance
IIWWTP Surge Mitigation	2,000,000	450,000	650,000	650,000	250,000	—	2,000,000	Construction	Maintenance
IIWWTP Waste Gas Burner Redundancy	1,250,000	400,000	—	—	—	—	400,000	Construction	Maintenance
Iona Island Wastewater Treatment Plant*	1,060,150,000	124,619,116	175,574,217	245,915,000	430,254,692	480,005,613	1,456,368,638	Construction	Upgrade
LIWWTP Effluent Heat Recovery Project	11,650,000	4,023,000	1,250,000	—	—	—	5,273,000	Construction	Opportunity
LIWWTP Gravity Thickener Odour Control System	—	—	—	—	150,000	300,000	450,000	Not Started	Upgrade
LIWWTP Gravity Thickener Redundancy	67,000,000	1,043,524	5,100,000	20,000,000	21,000,000	18,000,000	65,143,524	Construction	Maintenance
LIWWTP Ground Fault Detection System Replacement	2,050,000	665,000	250,000	100,000	—	—	1,015,000	Construction	Maintenance
LIWWTP High Efficiency Boiler	1,300,000	410,000	330,000	—	—	—	740,000	Construction	Maintenance
LIWWTP ICS Electrical Distribution System Migration Program	2,250,000	600,000	2,000,000	2,250,000	1,400,000	—	6,250,000	Design	Maintenance
LIWWTP ICS Replacement Program	6,750,000	1,150,000	—	—	—	—	1,150,000	Construction	Maintenance
LIWWTP New Influent Conduit and Headworks	1,250,000	125,000	500,000	3,755,000	3,155,000	4,700,000	12,235,000	Design	Resilience
LIWWTP PA Tank Odour Control System	4,750,000	1,600,000	1,800,000	1,150,000	—	—	4,550,000	Construction	Upgrade
LIWWTP PA-Sed Tank Refurbishment	3,200,000	710,000	610,000	110,000	—	—	1,430,000	Construction	Maintenance
LIWWTP Pilot Digestion Optimization Facility	7,200,000	1,103,000	620,000	—	—	—	1,723,000	Construction	Opportunity
LIWWTP Power Distribution Center Replacements	750,000	300,000	335,000	2,000,000	2,000,000	1,500,000	6,135,000	Design	Maintenance
LIWWTP Power Reliability	16,000,000	4,900,000	2,956,526	1,464,461	—	—	9,320,987	Construction	Resilience
LIWWTP SCL Refurbishment	41,500,000	982,968	9,649,999	9,650,000	19,300,000	—	39,582,967	Construction	Maintenance
LIWWTP Trickling Filter Refurbishment	68,550,000	8,550,000	8,550,000	10,450,000	100,000	—	27,650,000	Construction	Maintenance
NLWWTP Alum Dosing System Relocation and Upgrades	1,900,000	1,400,000	370,000	100,000	—	—	1,870,000	Construction	Resilience
NLWWTP Hydraulic Improvements	5,000,000	950,000	2,750,000	1,100,000	200,000	—	5,000,000	Construction	Resilience
NLWWTP Standby Diesel Generator	950,000	150,000	50,000	—	—	—	200,000	Construction	Resilience
North Shore WWTP Secondary Upgrade, Conveyance and Decommissioning*	3,854,950,000	761,232,233	673,022,809	520,120,013	206,372,304	66,596,037	2,227,343,396	Construction	Upgrade
Northwest Langley Wastewater Treatment Program*	2,280,950,000	112,818,231	237,230,999	237,193,000	233,840,538	237,193,000	1,058,275,768	Multiple	Growth
Regional Biosolids Dryer – AIWWTP*	51,250,000	3,000,000	4,600,000	12,200,000	69,200,000	90,000,000	179,000,000	Design	Opportunity
WWTPs Electrical System Studies & Upgrades	3,300,000	200,000	500,000	850,000	1,275,000	900,000	3,725,000	Construction	Resilience
Total Treatment Plants	\$ 9,865,300,000	\$ 1,140,703,795	\$ 1,331,783,798	\$ 1,294,977,474	\$ 1,227,487,534	\$ 1,168,109,650	\$ 6,163,062,251		
TOTAL CAPITAL EXPENDITURES	\$11,854,500,000	\$ 1,260,168,871	\$ 1,639,551,936	\$ 1,613,599,512	\$ 1,541,989,933	\$ 1,525,589,025	\$ 7,580,899,277		

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
CAPITAL PORTFOLIO
LIQUID WASTE SERVICES
DRAFT FIVE YEAR CAPITAL PLAN (2027 — 2031)**

	DRAFT CAPITAL BUDGET**	2027 CAPITAL EXPENDITURES	2028 CAPITAL EXPENDITURES	2029 CAPITAL EXPENDITURES	2030 CAPITAL EXPENDITURES	2031 CAPITAL EXPENDITURES	2027 TO 2031 TOTAL CAPITAL EXPENDITURES	ACTIVE PHASE	PRIMARY DRIVER
SUMMARY BY DRIVER									
Growth	\$ 4,615,950,000	\$ 221,943,667	\$ 456,189,903	\$ 441,243,318	\$ 409,378,751	\$ 552,561,375	\$ 2,081,317,014		
Maintenance	1,569,950,000	100,751,814	248,922,018	271,886,721	297,969,679	275,241,000	1,194,771,232		
Resilience	148,200,000	10,875,000	11,121,526	11,889,461	5,430,000	5,850,000	45,165,987		
Upgrade	5,332,700,000	911,763,390	905,635,489	855,685,012	733,371,503	585,861,650	3,992,317,044		
Opportunity	187,700,000	14,835,000	17,683,000	32,895,000	95,840,000	106,075,000	267,328,000		
Total	\$11,854,500,000	\$ 1,260,168,871	\$ 1,639,551,936	\$ 1,613,599,512	\$ 1,541,989,933	\$ 1,525,589,025	\$ 7,580,899,277		

**Draft Capital Budget refers to the estimated project costs to active phase.

* 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.



Annacis Island Wastewater Treatment Plant

Draft Five Year Capital Plan (2027 – 2031)

LIQUID WASTE SERVICES

Peter Navratil, P.Eng, MPA
General Manager, Liquid Waste Services

Liquid Waste Committee - July 15, 2026
76898764

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AGENDA

- Financial Plan Process Overview
- Service Objectives
- Capital Plan Drivers
- Liquid Waste Services Projects Overview

2

2027 – 2031 FINANCIAL PLAN & ANNUAL BUDGET TIMELINE



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SERVICE OBJECTIVES

Liquid Waste Services

1. Eliminate discharges from the sewer system
2. Ensure that authorized wastewater treatment plant discharges meet regulatory requirements
3. Improve environmental stewardship
 - nutrient recovery, energy use, greenhouse gas and odour emissions
4. Minimize timeline to recover from a major event
 - seismic, power interruption, and climate change

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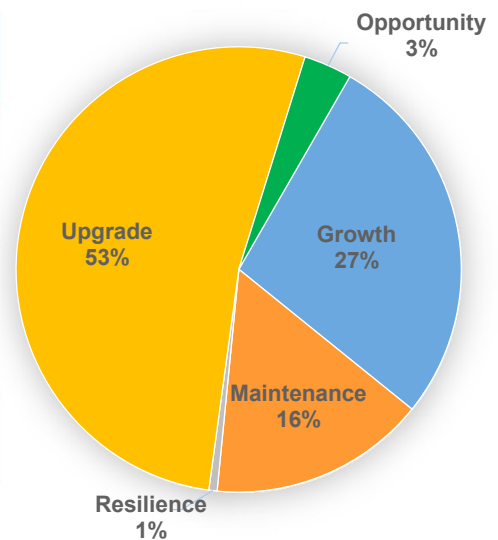
METRO VANCOUVER CAPITAL PROGRAM

- Over 300 projects (Liquid Waste: 149)
- Capital expenditures for five years
- Provides active phase; primary driver
- Total project budgets

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CAPITAL PLAN DRIVERS

Driver	Outcome	Draft 2027 – 2031 Capital Plan (\$M)
Upgrade	Enhance levels of service	\$3,992.3
Growth	Accommodate population and economic growth	\$2,081.3
Maintenance	Maintain assets in a state of good repair	\$1,194.8
Opportunity	Reduce life-cycle costs and/or achieve Board goals	\$267.3
Resilience	Minimize impacts resulting from seismic events and climate change	\$45.2
Total		\$7,580.9



LIQUID WASTE SERVICES

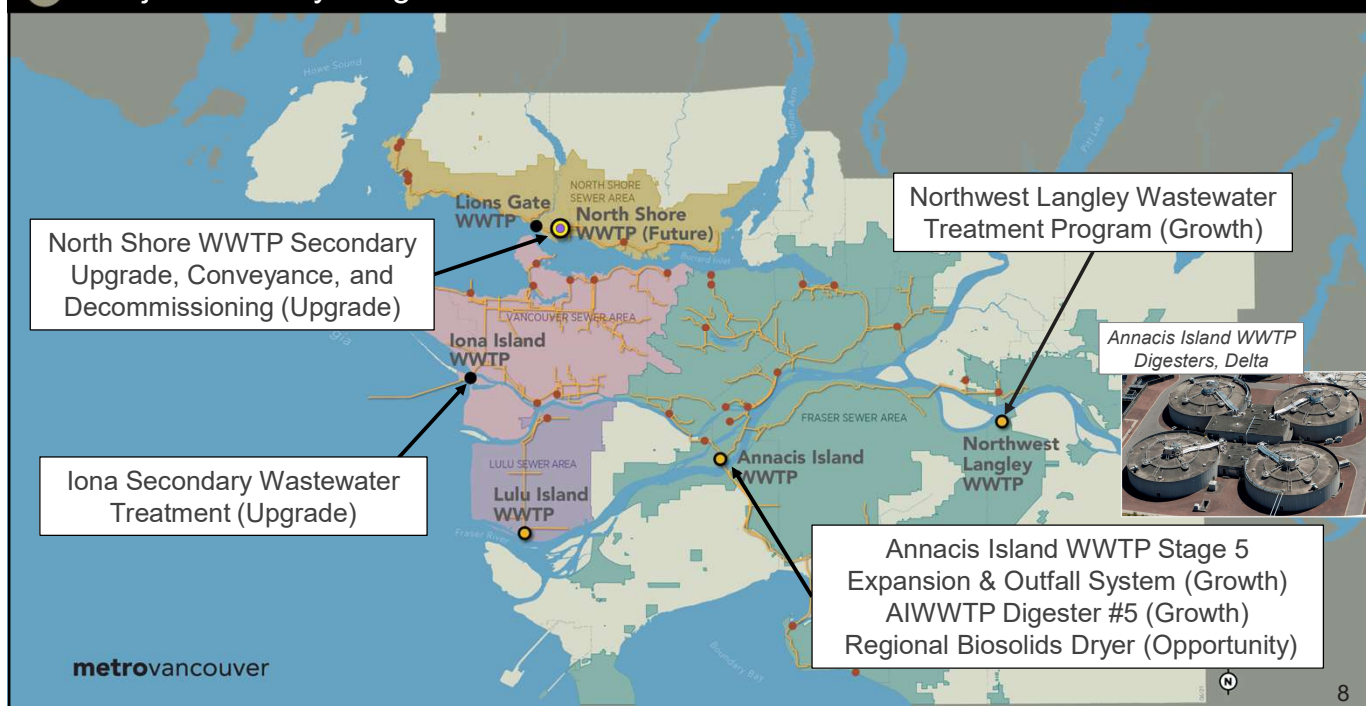
Driver	Draft 2027 – 2031 Capital Plan (\$M)	Key Projects (149 Projects in the Capital Plan)
Upgrade	\$3,992.3	- North Shore Wastewater Treatment Plant - Iona Island Wastewater Treatment Plant
Growth	\$2,081.3	- Northwest Langley Wastewater Treatment Program - AIWWTP Stage 5 Expansion
Maintenance	\$1,194.8	- IIWWTP Outfall Refurbishment - North Surrey Interceptor Improvements
Opportunity	\$267.3	- Regional Biosolids Dryer - AIWWTP - Sewer Heat Projects
Resilience	\$45.2	- LIWWTP New Influent Conduit and Headworks - LIWWTP Power Reliability
Total	\$7,580.9	

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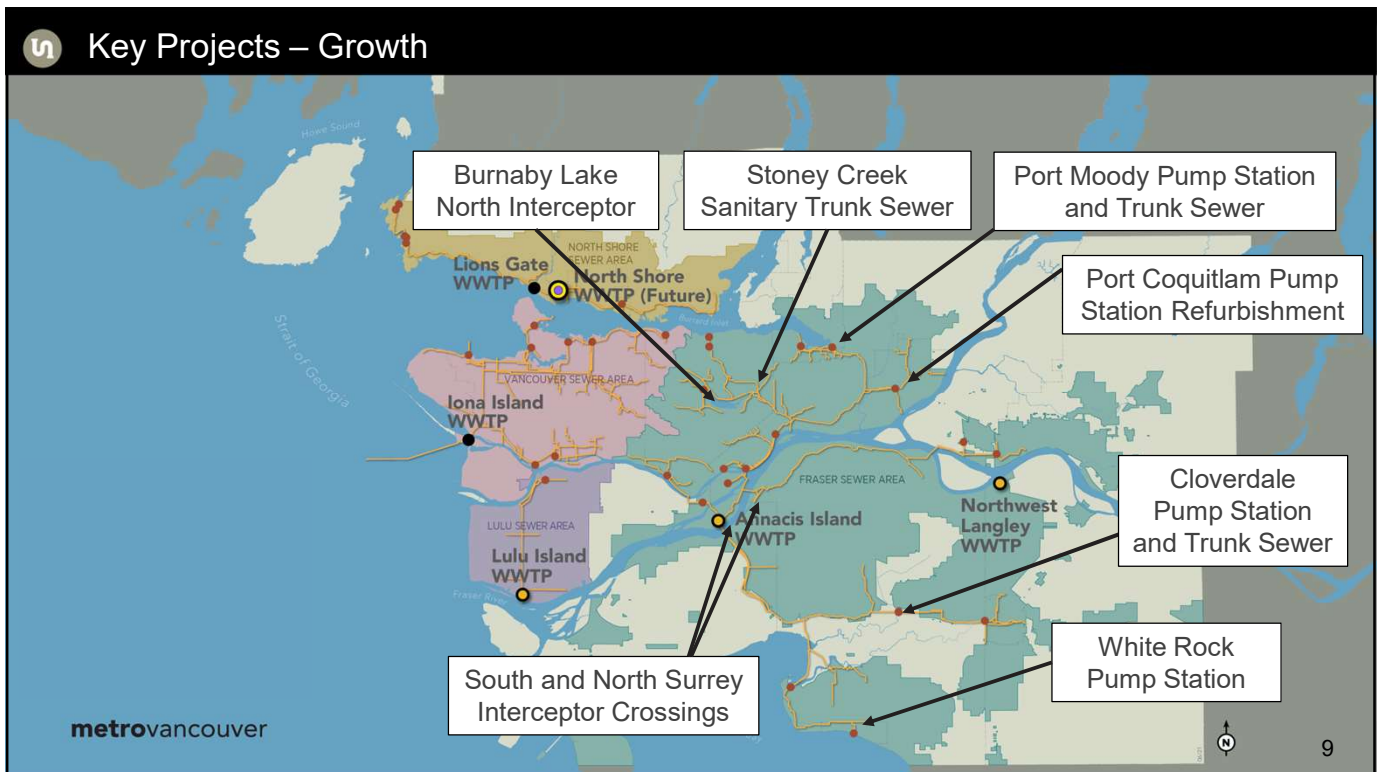
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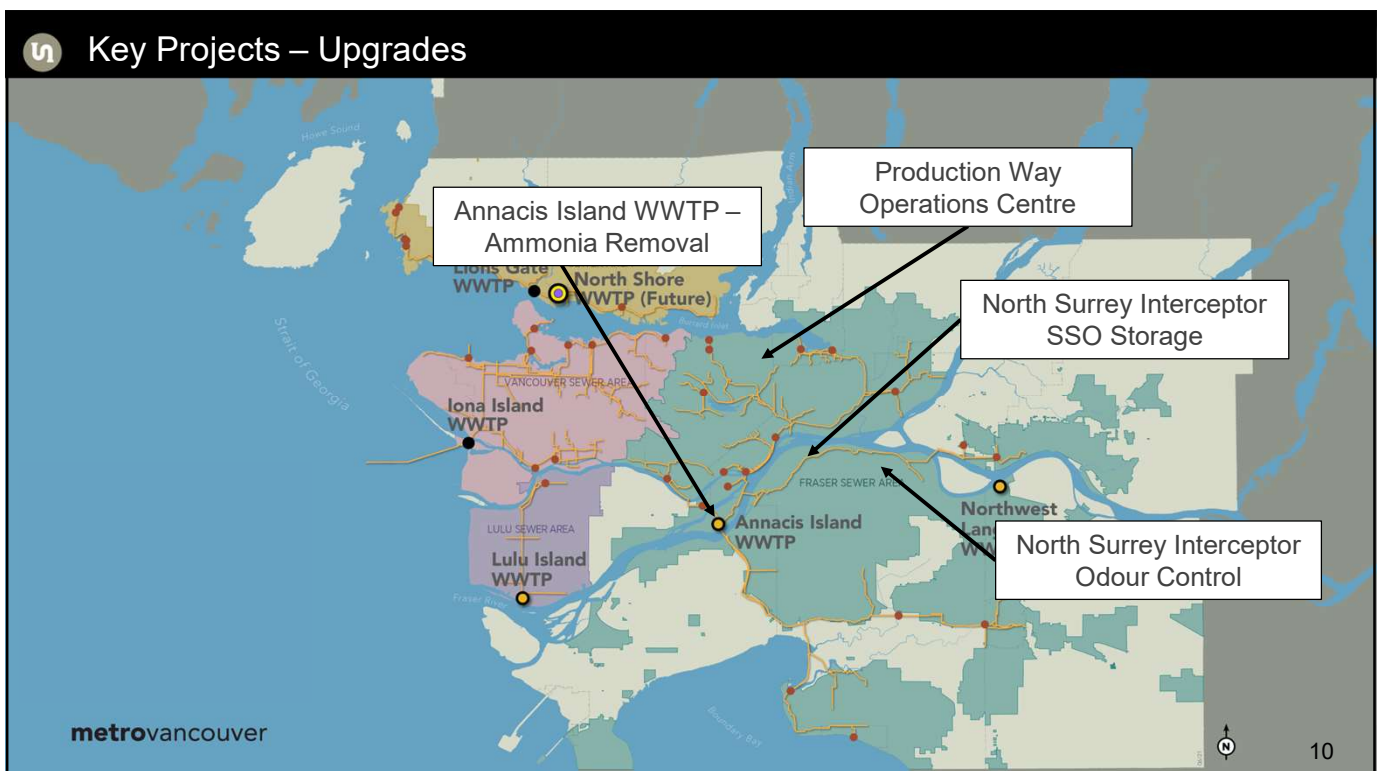
Project Delivery Program



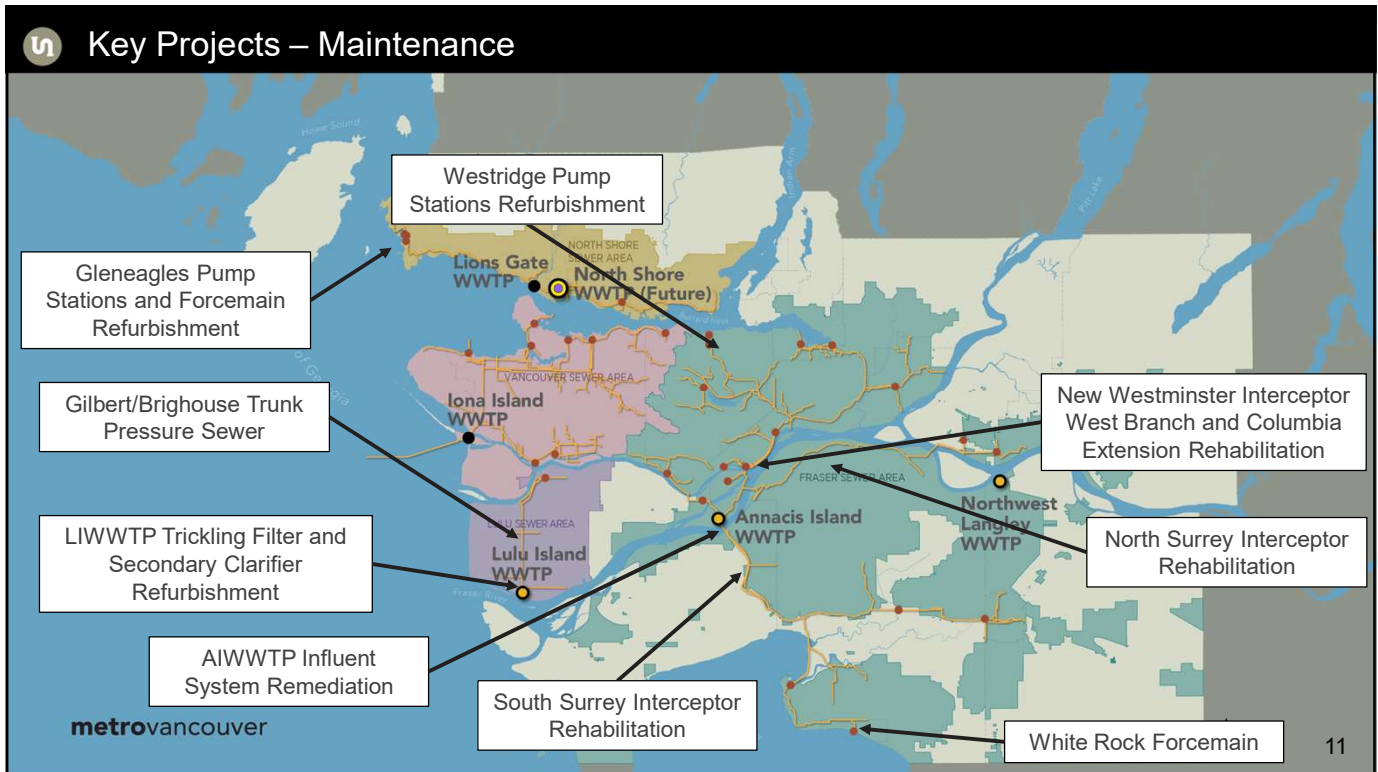
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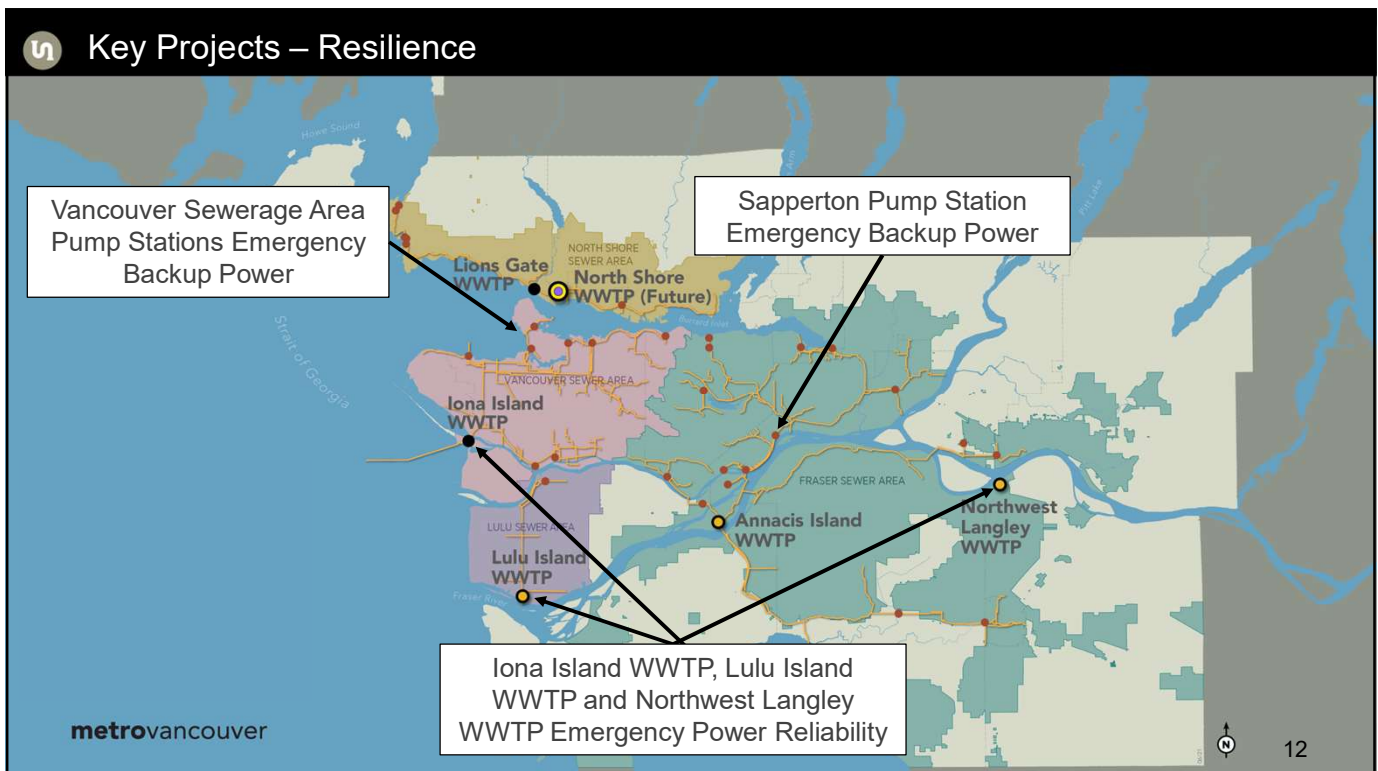
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LIQUID WASTE SERVICES

Draft 5 Year (2027 – 2031) Capital Plan Expenditures

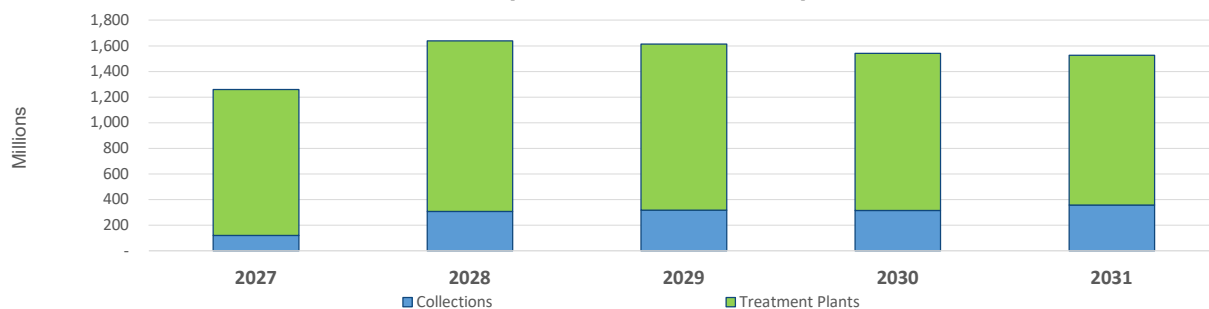
Overview:

- 2027 - 2031 Capital Plan: \$7.6B
- 2027 Estimated Capital Expenditures: \$1,260.2M
- 149 projects

Drivers:

- Secondary Treatment Upgrade (NSWWTP / IWWTP)
- FSA WWTP Expansions (AIWWTP / NLWWTP)
- Maintenance

2027 - 2031 Liquid Waste Services Capital Plan



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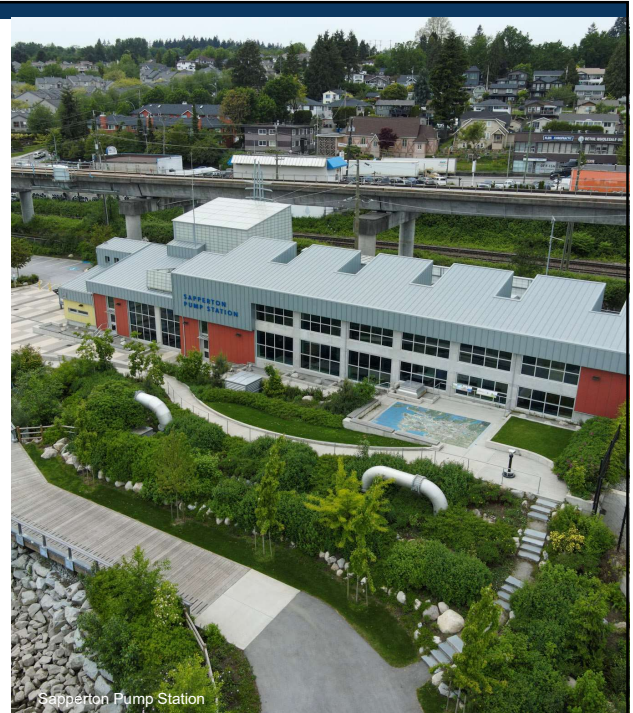
2027 CAPITAL EXPENDITURES

Eight projects make up 88% of the proposed 2027 capital expenditures for all 149 projects

- North Shore WWTP Secondary Upgrade
- Iona Island WWTP Secondary Upgrade
- Northwest Langley WWTP Expansion
- Annacis Island WWTP Stage 5 Expansion
- Annacis Outfall System
- NSI SSO Storage
- Gleneagles Forcemain Replacement
- Stoney Creek Sanitary Trunk

NEXT STEPS

- Consider Committee comments on the Draft 2027-2031 Capital Plan
- Present revised 2027-2031 Capital Plan and 2027 Operating and Capital Budgets for Committee and Board consideration in October



Sapperton Pump Station



Fraser River – Northwest Langley Wastewater Treatment Plant, Barnston Island, and Surrey Bend Regional Park

Thank you

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