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METRO VANCOUVER REGIONAL DISTRICT (MVRD) METRO VANCOUVER HOUSING CORPORATION (MVHC) GREATER VANCOUVER WATER DISTRICT (GVWD) GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT (GVS&DD)

BOARD OF DIRECTORS

SPECIAL JOINT BOARD MEETING Friday, May 31, 2024 9:00 am

28th Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia Webstream available at https://metrovancouver.org/

Purpose: To participate in a workshop-style discussion of Metro Vancouver's budget preparations.

Membership and Votes

A G E N D A¹

A. ADOPTION OF THE AGENDA

1. May 31, 2024 Special Meeting Agenda

That the MVRD, MVHC, GVWD, and GVS&DD Boards adopt the agenda for their special meeting scheduled for May 31, 2024 as circulated.

- B. REPORTS FROM COMMITTEE OR COMMISSIONER/CHIEF ADMINISTRATIVE OFFICER
 - 1. May 31, 2024 Board Budget Workshop: 2025 Budget and 5-Year Financial Plan Scenarios for Consideration

The following was moved and seconded at the Special Joint Board meeting of the MVRD, MVHC, GVWD, and GVS&DD Boards held on May 17, 2024 and is now before the Boards for their consideration:

That the MVRD / MVHC / GVS&DD / GVWD Boards direct staff to prepare the 2025 Budget and 2025-2029 Financial Plan by allocating the \$2.8B required to complete the NSWWTP Program according to Option 6 from Table 6 and phasing the levy in according to Option 4 from Table 7 in the report dated May 10, 2024, titled "2025 Budget and 5-Year Financial Plan Scenarios for Consideration".

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

C. ADJOURNMENT

That the MVRD, MVHC, GVWD, and GVS&DD Boards adjourn their special joint meeting of May 31, 2024.



To: MVRD, MVHC, GVWD, and GVS&DD Boards

From: Jerry W. Dobrovolny, Chief Administrative Officer and Commissioner

Date: May 23, 2024 Meeting Date: May 31, 2024

Subject: May 31, 2024 Board Budget Workshop: 2025 Budget and 5-Year Financial Plan

Scenarios for Consideration

RECOMMENDATION

That the MVRD / MVHC / GVS&DD / GVWD Boards receive the report dated May 23, 2024 titled "May 31, 2024 Board Budget Workshop: 2025 Budget and 5-Year Financial Plan Scenarios for Consideration" for information.

EXECUTIVE SUMMARY

At the Special Joint Board meeting of the MVRD, MVHC, GVWD, and GVS&DD Boards held on May 17, 2024, a motion was moved and seconded directing staff to prepare the 2025 Budget and 2025-2029 Financial Plan based on options from Tables 6 and 7 in the report titled "2025 Budget and 5-Year Financial Plan Scenarios for Consideration" dated May 10, 2024. The motion recommended Scenario 6 for allocation (adding \$40 / household over current apportionment for three sewerage areas resulting in an incremental household impact of \$185 for the NSSA) and Option 4 for phasing (1 year phase in of the levy for three sewerage areas and a 5-year phase in for the NSSA) to incorporate the \$2.8B required to complete the NSWWTP Program. The motion was referred to the May 31, 2024 Special Joint Board meeting for consideration.

Discussion arose at the May 17, 2024 Special Joint Board meeting about employing a longer phase in period for the levy to enable accelerated work exploring the implications of a single sewerage area. It is expected that this work will be complex, will likely raise issues for the federation to grapple with, and is expected to take up to two years to complete. Staff will advance this work with an update planned for the Board at the 2025 Board Budget Workshop.

Staff continues to seek direction from the Board regarding allocation and phasing in of the required levy for the updated North Shore Wastewater Treatment Plant (NSWWTP) Program budget.

PURPOSE

To further consider the allocation and phasing options for the \$2.8B required to complete the NSWWTP Program for the 2025 budget and 2025-2029 Financial Plan.

BACKGROUND

At the Special Joint Board meeting of the MVRD, MVHC, GVWD, and GVS&DD Boards held on May 17, 2024, the Boards moved and seconded the following and referred it to the May 31, 2024 Special Joint Board meeting for consideration:

That the MVRD / MVHC / GVS&DD / GVWD Boards direct staff to prepare the 2025 Budget and 2025-2029 Financial Plan by allocating the \$2.8B required to complete the NSWWTP Program according to Option 6 from Table 6 and phasing the levy in according to Option 4 from Table 7 in the report dated May 10, 2024, titled "2025 Budget and 5-Year Financial Plan Scenarios for Consideration".

The above motion seeks to allocate the \$2.8B required to complete the NSWWTP Program by adding \$40 per household above the current allocation for three sewerage areas (see below), which results in an incremental impact of \$185 per household for the NSSA. In addition, the motion on the floor is to phase in the levy in 1 year for three sewerage areas and 5 years for the NSSA. That is Option 4 in Table 7. The motion is before the Boards for consideration at the May 31, 2024 Special Joint Board meeting.

Excerpt from Table 6 from May 10, 2024 Report: Scenario 6 Adds \$40 / household for 3 Sewerage Areas and with Incremental Impact on NSSA of \$185 / household

| Scenario | Sewerage | Incremental HHI | Average Annual Levy |
|----------|----------|-----------------|---------------------------------|
| | Area | | Amount Over Amortization |
| | NSSA | \$185 | \$19M |
| | VSA | \$180 | \$62M |
| 6 | LIWSA | \$110 | \$17M |
| | FSA | \$120 | \$92M |
| | Total | | \$190M |

DISCUSSION SUMMARY

Discussion arose at the May 17, 2024 Special Joint Board meeting about the potential of phasing in the required levy over a longer period, and to accelerate the exploration of a single sewerage area. This exploration is part of the 2024-2028 Board Strategic Plan. It is expected that this work will be complex, will likely raise many issues for the federation to grapple with, and is expected to take up to two years to complete. Staff will advance this work with an update planned to the Board at the 2025 Board Budget Workshop, however the challenge of integrating the \$2.8B to complete the NSWWTP Program remains in the interim, and staff require direction to prepare the 2025 Budget and 2025-2029 Financial Plan.

At the May 17, 2024 Special Joint Board meeting there was also discussion about phasing in the levy for the NSSA and impacts on both the funding requirements for completing the NSWWTP Program over the 5-year financial plan and how that might interact with work towards a single sewerage area. Based on the funding requirement for the NSWWTP Program over the 5 years, regardless of the allocation option chosen by the Board, the cash flow requirements to complete the NSWWTP Program do not necessitate a phase in of the levy in one year for the NSSA. Phasing in the levy over time for the NSSA may enable the work towards a single sewerage area to be completed in advance of the full amount being levied. It was requested that staff provide possible phase in amounts for the NSSA over three and five years under the current apportionment bylaw, which are outlined below.

Over three years, a proposed incremental phase in to get to a \$725 increase, based on stabilizing the rates and ensuring sufficient funding of the project over the 5-year Financial Plan would be: 2025 = +\$145; 2026 = +\$255; and 2027 = +\$325. This would mean the cumulative HHI would be: 2025 = \$145; 2026 = \$400; and 2027 = \$725. Over five years, a proposed incremental phase in to get to a \$725 increase, based on stabilizing the rates and ensuring sufficient funding of the project over the 5-year Financial Plan would be: 2025 = +\$145; 2026 = +\$145; 2027 = +\$145; 2028 = +\$145; and 2029 = +\$145. This would mean the cumulative HHI would be: 2025 = \$145; 2026 = \$290; 2027 = \$435; 2028 = \$580; and 2029 = \$725. The debt service implications of these options are shown in Table 7.

Subsequent to the May 17, 2024 Board Budget Workshop, staff were asked the implications of each of the options in Table 6 in terms of percentage of regional share and percentage NSSA share. That information has been added to Table 6 below. Table 6 and 7 are provided below in this report to support the Boards' discussion and decision.

Table 6. Scenarios providing impact of increasing the average HHI in \$10 increments

| Scenario | | | | Regional and |
|------------|--------------------------------|-----------------|---------------------|---------------|
| | Area | | Amount Over | NSSA Share by |
| | | | Amortization | Scenario |
| Current Co | ost Apportion | ment | | |
| | NSSA | \$725 | \$71M | 46% |
| | VSA | \$140 | \$46M | |
| 1 | LIWSA | \$70 | \$9M | 54% |
| | FSA \$80 \$64M Total \$190M | | | |
| | Total | | \$190M | |
| Adjusted I | | | | |
| | Sewerage | Incremental HHI | Average Annual Levy | |
| Scenario | Area | | Amount Over | |
| | | | Amortization | |
| | NSSA | \$140 | \$15M | 8% |
| | VSA | \$140 | \$46M | |
| 2 | LIWSA | \$140 | \$23M | 92% |
| | FSA | \$140 | \$106M | |
| | Total | | \$190M | |
| | NSSA | \$590 | \$58M | 37% |
| | VSA | \$150 | \$50M | |
| 3 | LIWSA | \$80 | \$11M | 63% |
| | FSA | \$90 | \$71M | |
| | Total | | \$190M | |
| | NSSA | \$455 | \$45M | 29% |
| | VSA | \$160 | \$54M | |
| 4 | LIWSA | \$90 | \$13M | 71% |
| | FSA | \$100 | \$78M | |
| | Total | | \$190M | |
| | NSSA | \$320 | \$32M | 20% |
| | VSA | \$170 | \$58M | |
| 5 | LIWSA | \$100 | \$15M | 80% |
| | FSA | \$110 | \$85M | |
| | Total | | \$190M | |
| | NSSA | \$185 | \$19M | 12% |
| | VSA | \$180 | \$62M | |
| 6 | LIWSA | \$110 | \$17M | 88% |
| | FSA | \$120 | \$92M | |
| | Total | | \$190M | |

| Table 7. Levy phasing | g options and | l Implications on 5 | -vear debt servici | ng and 5-year pl | lan HHI |
|--|---------------|---------------------|--------------------|------------------|---------|
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| Option | Phasing Options | 5-Year Debt Service | Overall 5-Year HHI % |
|--------|---|---------------------|-----------------------|
| Option | Fliasing Options | Impacts | Change |
| 1 | 1 year | ~\$90M savings | 31%, 5%, 5%, 5%, 5% |
| 2 | 1 year for three sewerage areas, 3 years for NSSA | ~\$75M savings | 26%, 7%, 6%, 5%, 5% |
| 3 | 2 year | ~\$70M savings | 21%, 13%, 5%, 5%, 5% |
| 4 | 1 year for three sewerage areas, 5 years for NSSA | ~\$60M savings | 25%, 6%, 6%, 6%, 6% |
| 5 | 3 year | ~\$20M savings | 18%, 10%, 10%, 5%, 5% |
| 6 | 4 year* | ~ -\$25M cost | 16%, 9%, 9%, 8%, 5% |
| 7 | 5 year* | ~ -\$60M cost | 15%, 8%, 8%, 8%, 8% |

^{*}Will result in cash flow challenge and will need to increase rates post 5 years (not recommended)

ALTERNATIVES

Staff are seeking direction from the Board on how to incorporate the budgetary requirements to complete the NSWWTP Program into the 2025 budget and 2025-2029 Financial Plan for the upcoming budget process. Staff are not providing a recommendation on allocation and phasing, however, are seeking direction from the Board to advance one option from Table 6 and one option from Table 7 in the report.

This entails the Board filling in and passing the following resolution:

That the MVRD / MVHC / GVS&DD / GVWD Boards direct staff to prepare the 2025 Budget and 2025-2029 Financial Plan by allocating the \$2.8B required to complete the NSWWTP Program according to [insert Scenario 1,2,3,4,5, or 6 from Table 6] and phasing the levy in according to [insert Option 1,2,3,4,5,6, or 7 from Table 7].

The motion on the floor is Scenario 6 phasing the levy in according to Option 4.

FINANCIAL IMPLICATIONS

The Board has already approved the revised budget to complete the NSWWTP Program. The direction from the Board with respect to the allocation and phasing the updated NSWWTP Program costs is key in the development of the 2025 budget and 2025-2029 Financial Plan. Based on direction from the Board, staff will incorporate the direction as part of the 2025 Budget and 2025-2029 Financial Plan to be considered in Q4, 2024.

CONCLUSION

The Board Budget Workshop is a key milestone for Metro Vancouver's annual budget process as it provides direction to staff from the Board on the annual budget and 5 year financial plan for the fall budget approvals. The purpose of this report is to seek direction on how to incorporate the updated North Shore Wastewater Treatment Plant (NSWWTP) Program costs within the 2025 Budget and 2025-2029 Financial Plan. Based on direction from the Board, staff will incorporate the direction as part of the 2025 Budget and 2025-2029 Financial Plan to be approved in Q4, 2024. Staff are seeking direction from the Board to advance one option from Table 6 and one option from Table 7 in the report.

ATTACHMENT

1. "2025 Budget and 5-Year Financial Plan Scenarios for Consideration", dated, May 10, 2024.

68207388



To: Metro Vancouver Regional District (MVRD) Board

Metro Vancouver Housing Corporation (MVHC) Board

Greater Vancouver Sewerage and Drainage District (GVS&DD) Board

Greater Vancouver Water District (GVWD) Board

From: Jerry W. Dobrovolny, Chief Administrative Officer and Commissioner

Date: May 10, 2024 Meeting Date: May 17, 2024

Subject: **2025 Budget and 5-Year Financial Plan Scenarios for Consideration**

RECOMMENDATION

That the MVRD / MVHC / GVS&DD / GVWD Boards receive for information the report titled "2025 Budget and 5-Year Financial Plan Scenarios for Consideration", dated May 10, 2024.

EXECUTIVE SUMMARY

At the April 17, 2024 Board Budget Workshop, staff provided information on approaches for the 2025 Budget and 5-Year Financial Plan, seeking direction for the upcoming budget process. The main focus was to get direction on how to integrate the \$2.8B budgetary requirements to deliver the North Shore Wastewater Treatment Plant Program. The Board directed staff to provide a second Board Budget Workshop with additional information, and staff has prepared the following:

- A definition for the three tiers in the tiered allocation model for liquid waste capital projects
- Context and history of the tiered model
- A breakdown of the updated cost of the North Shore Wastewater Treatment Plant Program (NSWWTP Program) by tier and allocation by sewerage area
- An expanded range of scenarios to address the increased cost for the North Shore Wastewater Treatment Plant Program, including:
 - Allocation options including the current allocation model, distributing the cost equally by household across all sewerage areas, and a sensitivity analysis in \$10/household increments
 - Phasing in the levy over 1, 2, 3, 4, or 5 years, as well as applying different phase-in periods for different sewerage areas
 - Debt financing implications
 - Implications of amending the current amortization period for borrowing (currently 15 years for VSA/LIWSA/FSA and 30 years for the NSSA for the NSWWTP Program) to a 15-year amortization for all sewerage areas.

This report responds to those requests. The Board has already approved the revised budget to complete the NSWWTP Program. Direction provided by the Board at the May 17, 2024 Board Budget Workshop will determine whether there is direction to amend the allocation model and / or phase in a levy to incorporate these costs. Direction will guide the budget approach for the 2025 Budget and 2025-2029 Financial Plan, which will be considered by the Board in Q4, 2024. Please see the Alternatives section of this report.

PURPOSE

To provide the MVRD, MVHC, GVS&DD, and GVWD Boards with further analysis of options for allocating the household impact of the additional cost to complete the North Shore Wastewater Treatment Plant (NSWWTP) Program, to provide further information on Tier I, II and III costs as defined in the GVS&DD Cost Apportionment Bylaw, and to seek direction for the upcoming budget process.

BACKGROUND

At the April 17, 2024 Special Joint Board Budget Workshop Meeting, the MVRD, MVHC, GVS&DD, and GVWD Boards asked staff to provide more information on the tier definitions within the *GVS&DD Cost Apportionment Bylaw*, the history of cost apportionment for the GVS&DD, and further analysis for options for allocating the updated costs to complete the NSWWTP Program at an additional Board Budget Workshop.

COST APPORTIONMENT BYLAW AND DEFINITION OF ITS TIERS

The *Greater Vancouver Sewerage* and *Drainage District Cost Apportionment Bylaw* defines how the annual liquid waste services levy is distributed. The intent of the bylaw is to allocate costs equitably. Within it, costs related to projects that service a specific sewerage area are allocated to that sewerage area, and costs related to projects that benefit the region are shared regionally.

Cost apportionment was first proposed in 1953 in the <u>Rawn Report</u> (Sewerage and Drainage of the Greater Vancouver Area British Columbia), which was the original plan for the regional sewer collection and wastewater treatment system. The report allocated costs for operating, maintenance, and capital costs of wastewater infrastructure to be paid for by those serviced within areas defined by geographical and topographic factors (effectively, today's Tier I pricing). In 1956 this apportionment structure was incorporated in the <u>Greater Vancouver Sewerage and Drainage</u> <u>District Act</u>.

In 1995, the GVS&DD Cost Apportionment Bylaw was established based on extensive evaluation of the cost allocation methodology by staff supported by the Regional Administrators Advisory Committee (RAAC) and Regional Engineers Advisory Committee (REAC). This bylaw was created in response to the costs associated with the provincially mandated secondary upgrades of the Annacis Island and Lulu Island wastewater treatment plants. This process introduced Tier II pricing and the regional allocation of costs associated with the secondary upgrade projects. This process also introduced fixed percentages for the apportionment among the members of the North Shore Sewerage Area.

Adjustments have been made to the bylaw through the years. These include: adoption of dry weather flows for the apportionment to members in the Fraser Sewerage Area, introduction of revenues from industrial treatment costs, and apportionment of growth-related capital costs in proportion to population growth. The most recent amendments include the introduction of tertiary filtration to Tier III (2019), addition of regional wastewater resource recovery projects to Tier III (2021), and the transition to wet weather pricing (2023). The bylaw classifies expenditures into four categories and allocates them as summarized in Table 1.

Table 1. Tier Definitions in the GVS&DD Cost Apportionment Bylaw

| Category | Expenditure | Costs Allocated to Serviced Sewerage Area | Costs Allocated Regionally |
|----------------|--|---|----------------------------------|
| Operating | All operating costs | 100% | N/A |
| Tier 1 Capital | Conveyance system capital costs (and primary treatment portion of NSWWTP & Iona upgrades only) | 100% | N/A |
| Tier 2 Capital | Treatment plant capital costs (Secondary Treatment portion of NSWWTP & Iona upgrades) | 30% | 70% |
| Tier 3 Capital | Tertiary filtration and resource recovery capital costs | N/A | 100% |

Costs for capital projects related to population growth are allocated to sewerage areas in proportion to population growth based on population estimates produced by BC Stats. Capital project costs that fall under the upgrade, maintenance, or opportunity categories are allocated to the sewerage areas in proportion to dry weather flow at the five regional wastewater treatment plants. The apportionment of the incremental costs to complete the NSWWTP Program to each sewerage area are summarized in the Table 2.

Table 2. Apportionment of incremental costs to complete NSWWTP Program by sewerage area

| | VSA | NSSA | LIWSA | FSA | Total |
|--------------|-------|-------|-------|-------|-------|
| Tier 1 | - | 19.3% | - | - | 19.3% |
| Tier 2 (30%) | - | 22.8% | - | - | 22.8% |
| Tier 2 (70%) | 19.7% | 3.3% | 3.6% | 26.5% | 53.1% |
| Tier 3 | 1.8% | 0.3% | 0.3% | 2.4% | 4.8% |
| Total | 21.5% | 45.7% | 3.9% | 28.9% | 100% |

Table 3 shows the incremental impact by sewerage area with the current allocation model. It shows both the average HHI (a metric utilized to make the rates more understandable / relatable), and, as Metro Vancouver actually charges based on levy, it also shows the average annual levy amount over the amortization period.

Table 3. Incremental HHI and average annual Levy over the amortization by sewerage area

| Sewerage Area | Incremental HHI to complete the NSWWTP Program | Average Annual Levy Amount Over Amortization |
|------------------|--|--|
| VSA | \$140 | \$46M |
| NSSA | \$725 | \$71M |
| LIWSA | \$70 | \$9M |
| FSA | \$80 | \$64M |
| Total | | \$190M |

With the current tiered allocation model, North Shore residents, who represent 7% of the region's population will be responsible for 46% of the \$2.8B cost, or \$1.3B over 30 years. Residents across the region will also be impacted with a cost ranging from \$80-\$140 per household for 15 years or 54% of the \$2.8B.

OPTIONS ANALYSIS TO ADDRESS THE INCREMENTAL COSTS TO COMPLETE THE NSWWTP PROGRAM

At the April 2024 Board Budget workshop, staff presented options to incorporate the required incremental costs to complete the NSWWTP Program into the 2025 Budget and 2025-2029 Financial Plan. This included information on phasing any required levy in over one or three years, as well as options to amend the allocation model to equitably distribute the cost across all sewerage areas based on the number of households in each sewerage area. Feedback from the Board included a request to model a wider variety of scenarios.

Over the past couple of weeks, staff have also been in discussions with municipal staff and Board members, where it was also requested that additional cost allocation methodologies to the average household impact based on the number of households be considered including:

- allocation based on assessed value;
- allocation of the total cost to Tier 3; and
- allocation based on water consumption.

These options are presented in Tables 4 and 5 below. They result in fluctuating results relative to the current cost apportionment model that overall do not address the gap across sewerage areas. These scenarios are based on the current financing arrangements of 15-year amortization for VSA, LIWSA, and FSA, and 30-year amortization for NSSA.

Table 4. Cost Allocation by Sewerage Area Via Different Methodologies (\$ Billions)

| | Curren ^a Alloca | | Equa | ІННІ | Assesse | d Value | All Ti | er 3 | | ater umption |
|-------|-------------------------------|------|-------|------|---------|---------|--------|------|-------|-----------------|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% |

Table 5. Incremental Household Impact by Sewerage Area Via Different Methodologies (\$)

| | Current Cost | Equal HHI | Assessed Value | All Tier 3 | Water |
|-------|--------------|-----------|----------------|------------|-------------|
| | Allocation | | | | Consumption |
| VSA | \$140 | \$140 | \$185 | \$220 | \$170 |
| NSSA | \$725 | \$140 | \$140 | \$95 | \$135 |
| LIWSA | \$70 | \$140 | \$150 | \$105 | \$140 |
| FSA | \$80 | \$140 | \$125 | \$125 | \$135 |

Moving back to allocation by number of households, subsequent modelling included consideration of different cost allocation options looking at the impact of adjusting the average household impact

in \$10 increments for VSA, LIWSA, and FSA to mitigate the financial impact to the NSSA. For every \$10 adjustment in the household impact for VSA, LIWSA, and FSA, there is an approximate \$135 household impact adjustment for the NSSA. Table 6 outlines the household impacts of these adjustments with the average annual levy impact over the amortization of the project.

Table 6. Scenarios providing impact of increasing the average HHI in \$10 increments

| Scenario | Sewerage | Incremental HHI | Average Annual Levy | | |
|---------------------------|---------------------|-----------------|---------------------------------|--|--|
| | Area | | Amount Over Amortization | | |
| Current Co | ost Apportion | ıment | | | |
| | VSA | \$140 | \$46M | | |
| 1 | NSSA | \$725 | \$71M | | |
| 1 | LIWSA | \$70 | \$9M | | |
| | FSA | \$80 | \$64M | | |
| | Total | | \$190M | | |
| Adjusted Regional Spreads | | | | | |
| Scenario | Sewerage | Incremental HHI | Average Annual Levy | | |
| | Area | ¢140 | Amount Over Amortization | | |
| | VSA | \$140 | \$46M | | |
| • | NSSA | \$140 | \$15M | | |
| 2 | LIWSA | \$140 | \$23M | | |
| | FSA | \$140 | \$106M \$190M | | |
| | Total VSA | \$150 | \$190M \$50M | | |
| | NSSA | \$590 | \$58M | | |
| 3 | LIWSA | \$80 | \$36W | | |
| 3 | FSA | \$90 | \$71M | | |
| | Total | \$90 | \$190M | | |
| | VSA | \$160 | \$150M | | |
| | NSSA | \$455 | \$45M | | |
| 4 | LIWSA | \$90 | \$13M | | |
| • | FSA | \$100 | \$78M | | |
| | Total | 7-23 | \$190M | | |
| | VSA | \$170 | \$58M | | |
| | NSSA | \$320 | \$32M | | |
| 5 | LIWSA | \$100 | \$15M | | |
| | FSA | \$110 | \$85M | | |
| | Total | | \$190M | | |
| | VSA | \$180 | \$62M | | |
| | NSSA | \$185 | \$19M | | |
| 6 | LIWSA | \$110 | \$17M | | |
| | FSA | \$120 | \$92M | | |
| | Total | | \$190M | | |

Options for Phasing in \$2.8B Costs to complete the NSWWTP Program Over 1 to 5 Years

The earlier the rates are phased in to fund the cost of the NSWWTP Program, the higher the debt service savings because this will offset the borrowing requirements over the first 5 years. By levying over 1, 2, or 3 years, Metro Vancouver can achieve an estimated \$20M—\$90M in debt avoidance over the 5-year Financial Plan. If levying over 4 or 5 years, additional borrowing would be required to fund the NSWWTP Program, and would result in an increase in the household impacts after the 5 years. Any scenario that does not include the 1-year phase-in will result in the household impacts in subsequent years being higher than the 5% target set by the Board for 2026 onwards, as set out in the current 5-Year Financial Plan. Table 7 below summarizes phasing options with the debt service implications under the current financing arrangements of 30-year amortization for NSSA and 15-year amortization for VSA, LIWSA, and FSA.

Table 7. Levy phasing options and Implications on 5-year debt servicing and 5-year plan HHI

| Option | Phasing Options | 5-Year Debt Service | Overall 5-Year HHI % |
|--------|------------------------------------|---------------------|-----------------------|
| | 3 | Impacts | Change |
| 1 | 1 year | ~\$90M savings | 31%, 5%, 5%, 5%, 5% |
| 2 | 1 year for three sewerage areas, 3 | ~\$75M savings | 26%, 7%, 6%, 5%, 5% |
| | years for NSSA | | |
| 3 | 2 year | ~\$70M savings | 21%, 13%, 5%, 5%, 5% |
| 4 | 1 year for three sewerage areas, 5 | ~\$60M savings | 25%, 6%, 6%, 6%, 6% |
| | years for NSSA | | |
| 5 | 3 year | ~\$20M savings | 18%, 10%, 10%, 5%, 5% |
| 6 | 4 year* | ~ -\$25M cost | 16%, 9%, 9%, 8%, 5% |
| 7 | 5 year* | ~ -\$60M cost | 15%, 8%, 8%, 8%, 8% |

^{*}Will result in cash flow challenge and will need to increase rates post 5 years (not recommended)

CONSIDERATIONS FOR 15 AND 30 YEAR AMORTIZATION PERIODS

The current financing arrangements for the NSWWTP Program are 30-year amortization for the NSSA portion of the project, and 15-year amortization for VSA, LIWSA, and FSA. The 30 year amortization period for the NSWWTP Program was requested by the NSSA and approved by the Metro Vancouver Board in 2021. Since the NSSA is the only sewerage area currently with a 30-year amortization, any financial savings resulting from the NSSA moving back to a 15-year amortization would only be realized by the NSSA.

If the NSSA is interested in moving back to a 15-year amortization, significant debt service savings could be realized, but the incremental household impact would increase over the amortization of the project because of the higher debt payments required on a shorter amortization term. For example, combining sample scenarios from Table 6 with a move to a 15-year amortization results in the following:

• Table 6 shows that if other sewerage areas increase their HHI by \$10, the NSSA HHI decreases from \$725 to \$590. If the NSSA went to a 15-year amortization, they would achieve, an estimated \$382M in debt service savings over the life of the loans. However, the revised household impact for the NSSA would become \$775.

• If other sewerage areas increase their HHI by \$20, the NSSA HHI decreases from \$725 to \$455. If the NSSA went to a 15-year amortization, they would achieve, an estimated \$297M in debt service savings over the life of the loans. However, the revised household impact for the NSSA would become \$605.

ALTERNATIVES

This is an information report; no alternatives are provided. However, staff are seeking direction from the Board on how to incorporate the budgetary requirements to complete the NSWWTP Program into the 2025 budget and 2025-2029 Financial Plan for the upcoming budget process. Staff are not providing a recommendation on allocation and phasing, however, are seeking direction from the Board to advance one option from Table 6 and one option from Table 7 in the report.

This entails the Board filling in and passing the following resolution:

That the MVRD / MVHC / GVS&DD / GVWD Boards direct staff to prepare the 2025 Budget and 2025-2029 Financial Plan by allocating the \$2.8B required to complete the NSWWTP Program according to [insert Options 1,2,3,4,5, or 6 from Table 6] and phasing the levy in according to [insert Options 1,2,3,4,5,6, or 7 from Table 7].

FINANCIAL IMPLICATIONS

The Board has already approved the revised budget to complete the NSWWTP Program. The direction from the Board with respect to the allocation and phasing the updated NSWWTP Program costs is key in the development of the 2025 budget and 2025-2029 Financial Plan. Based on direction from the Board, staff will incorporate the direction as part of the 2025 Budget and 2025-2029 Financial Plan to be considered in Q4, 2024.

CONCLUSION

The Board Budget Workshop is a key milestone for Metro Vancouver's annual budget process as it provides direction to staff from the Board on the annual budget and 5 year financial plans for the fall budget approvals. The purpose of this report is to seek direction on how to incorporate the updated North Shore Wastewater Treatment Plant (NSWWTP) Program costs within the 2025 Budget and 2025-2029 Financial Plan. Based on direction from the Board, staff will incorporate the direction as part of the 2025 Budget and 2025-2029 Financial Plan to be approved in Q4, 2024. Staff are seeking direction from the Board to advance one option from Table 6 and one option from Table 7 in the report.

ATTACHMENTS

1. Presentation re: Board Budget Workshop #2

REFERENCES

- 1. Sewerage and Drainage of the Greater Vancouver Area British Columbia (Rawn Report), 1953
- 2. Greater Vancouver Sewerage and Drainage District Act, 1956
- 3. BC Stats

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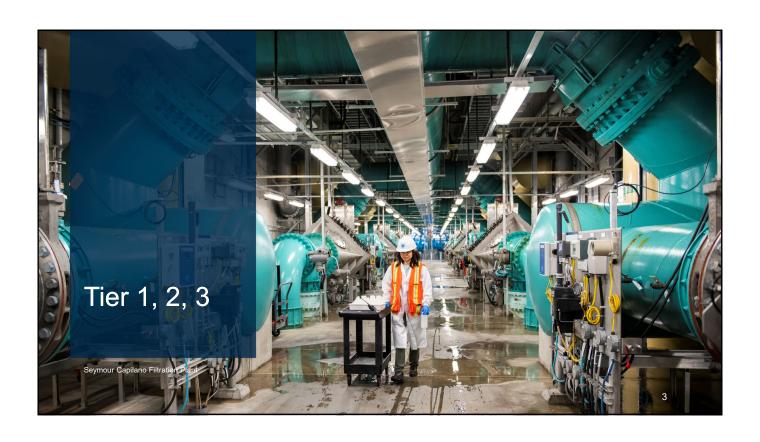
Attachment 1



TODAY'S OBJECTIVES

- Respond to requests for additional information on tier definitions and allocation of tiers for NSWWTP Program
- Provide Board with additional scenarios and information to inform direction to staff for:
 - 2025 Budget
 - 2025-2029 Financial Plan

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COST APPORTIONMENT BYLAW

| Category | Expenditure | Costs Allocated to Host Sewerage Area | Costs Allocated Regionally |
|----------------|--|---|----------------------------------|
| Operating | All Operating Costs | 100% | N/A |
| Tier 1 Capital | Conveyance System and Primary Treatment (NSWWTP & Iona upgrades only) | 100% | N/A |
| Tier 2 Capital | Secondary Treatment | 30% | 70% |
| Tier 3 Capital | Tertiary Treatment | N/A | 100% |

- In place since 1995
- Last amended 2019

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NSWWTP PROGRAM TIER BREAKDOWN FOR \$2.8B

Current apportionment

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| | Tier Allo | cation | VSA | NSSA | LIWSA | FSA |
|------------|-----------|--------|--------------|--------------|-------------|--------------|
| Tier 1 | \$0.5B | 19% | \$0.0B | \$0.5B | \$0.0B | \$0.0B |
| Tier 2 | \$2.1B | 76% | \$0.5B | \$0.8B | \$0.1B | \$0.7B |
| Tier 3 | \$0.2B | 5% | \$0.1B | \$0.0B | \$0.0B | \$0.1B |
| Total | \$2.8B | 100% | \$0.6B (21%) | \$1.3B (46%) | \$0.1B (4%) | \$0.8B (29%) |
| Population | 2.9M | | 0.8M (28%) | 0.2M (7%) | 0.2M (8%) | 1.7M (57%) |

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INCREMENTAL IMPACT OF NSWWTP PROGRAM BY SEWERAGE AREA; CURRENT APPORTIONMENT

| | 2024 Liquid Waste HHI | Incremental impact, current cost apportionment | |
|------------------------|-----------------------------|--|-----------------------|
| North Shore (NSSA) | \$464 | +\$725 | Per year for 30 years |
| Vancouver (VSA) | \$432 | +\$140 | <u> </u> |
| Lulu Island (LIWSA) | \$295 | +\$70 | Per year for 15 years |
| Fraser (FSA) | \$301 | +\$80 | |

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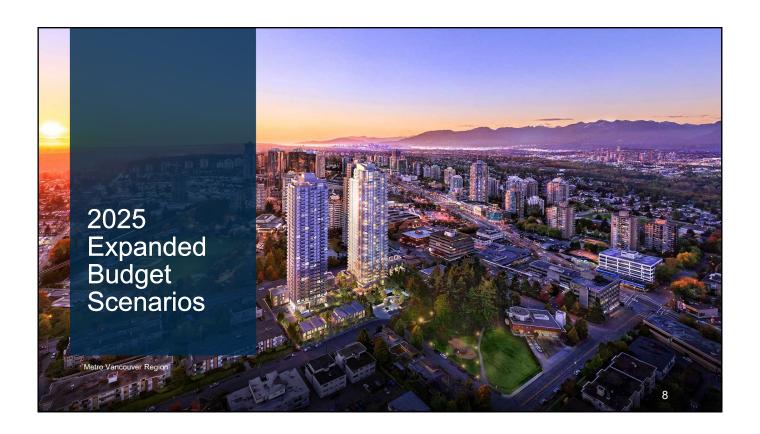
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QUESTION

The federation has the ability to make changes to the allocation model to address the regional challenge that 7% of the region's population is responsible for 46% or \$1.3B of the \$2.8B cost increase for the NSWWTP Program.

North Shore residents will be paying on average, an additional \$725 / household per year for 30 years. The impact will also be borne by the rest of the region's residents; they will be paying on average an additional \$70-\$140 / year for 15 years depending on the sewerage area in which they reside.

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5-YEAR FINANCIAL PLAN RESET

- Prior to NSWWTP Program budget reset, current 2024-2028 Financial Plan targets of 11%, 5%, 5%, 5% were attainable
- Staff have modelled various scenarios to support Board discussion (3 presented in April; additional for today)
- Two issues to discuss:
 - 1. Allocation of incremental NSWWTP Program (\$2.8B) costs
 - 2. Phase-In Approach to 5-Year Financial Plan to integrate \$2.8B

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COST ALLOCATION OPTIONS FOR ADDED COSTS FOR THE NSWWTP PROGRAM 1. Allocation

| | Current Cost Allocation (\$B) | | Equal HHI (\$B) | | | ssessed All Tier 3 (\$B) | | er 3 (\$B) | Water Cor (\$ | |
|-------|-------------------------------------|------|-----------------|------|-------|--------------------------|-------|------------|------------------|------|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% |

| Household Impact | Current Cost Allocation | Equal HHI | Assessed Value | All Tier 3 | Water Consumption |
|---------------------|----------------------------|-----------|-------------------|------------|-------------------|
| VSA | \$140 | \$140 | \$185 | \$220 | \$170 |
| NSSA | \$725 | \$140 | \$140 | \$95 | \$135 |
| LIWSA | \$70 | \$140 | \$150 | \$105 | \$140 |
| FSA | \$80 | \$140 | \$125 | \$125 | \$135 |

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| | Current Cost Allocation (\$B) | | | qual HHI (\$B) Assessed Value (\$B) | | | All Tier 3 (\$B) | | All Tier 3 (\$B) | | Water Cor (\$ | sumption B) |
|---------------------|-------------------------------------|--------------------|-------|--|-------------|------------|------------------|--------|------------------|----------|------------------|----------------|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% | | |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% | | |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% | | |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% | | |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | | |
| Household Impact | | ent Cost cation | Equal | нні | Asse Val | ssed ue | All 1 | Γier 3 | Water Con | sumption | | |
| VSA | \$140 | | \$14 | 0 | \$1 | 85 | \$220 | | \$170 | | | |
| NSSA | \$725 | | \$14 | 0 | \$1 | 40 | \$95 | | \$135 | | | |
| LIWSA | \$70 | | \$14 | 0 | \$150 | | \$105 | | \$140 | | | |
| FSA | \$80 | | \$140 | 0 | \$125 | | \$125 | | \$135 | | | |

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COST ALLOCATION OPTIONS FOR ADDED COSTS FOR THE **NSWWTP PROGRAM** 1. Allocation

| | Current Cost Allocation (\$B) | | Equal HI | ii (\$B) | Assessed Value (\$B) | | All Tier 3 (\$B) | | Water Consumption (\$B) | |
|---------------------|-------------------------------------|------|----------|----------|-------------------------|------|------------------|--------|----------------------------|----------|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% |
| Household Impact | | | Equal I | ННІ | Asse Val | | All 1 | Γier 3 | Water Con | sumption |

| Household Impact | Current Cost Allocation | Equal HHI | Assessed Value | All Tier 3 | Water Consumption |
|---------------------|----------------------------|-----------|-------------------|------------|-------------------|
| VSA | \$140 | \$140 | \$185 | \$220 | \$170 |
| NSSA | \$725 | \$140 | \$140 \$95 | | \$135 |
| LIWSA | \$70 | \$140 | \$150 | \$105 | \$140 |
| FSA | \$80 | \$140 | \$125 | \$125 | \$135 |

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| | Current Cost Allocation (\$B) | | Equal HHI (\$B) Asses Value | | | All Tier 3 (\$B) | | Water Cor (\$ | sumption B) | |
|---------------------|-------------------------------------|--------------------|--------------------------------|------|-------------------------|------------------|-----------|------------------|----------------|------|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% |
| Household Impact | | ent Cost cation | Equal | нні | Assessed All Tier 3 Wat | | Water Cor | sumption | | |
| VSA | \$ | 140 | \$140 | 0 | \$1 | 85 | \$220 | | \$170 | |
| NSSA | \$725 | | \$140 | 0 | \$1 | \$140 | | 95 | \$135 | |
| LIWSA | \$70 | | \$140 | 0 | \$1 | 50 | \$105 | | \$1 | 40 |
| FSA | \$80 | | \$140 | 0 | \$1 | 25 | \$125 | | \$135 | |

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COST ALLOCATION OPTIONS FOR ADDED COSTS FOR THE NSWWTP PROGRAM 1. Allocation

FSA

| | Current Cost Allocation (\$B) | | Equal Hi | II (\$B) | Assessed Value (\$B) | | All Tier 3 (\$B) | | Water Consumption (\$B) | |
|---------------------|-------------------------------------|------|----------|----------|-------------------------|------|------------------|------------|----------------------------|----------|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% |
| Household Impact | d Current Cost Allocation | | Equal | ННІ | Asse Val | | All T | ier 3 | Water Con | sumption |
| VSA | \$140 | | \$140 |) | \$185 | | \$220 | | \$170 | |
| NSSA | \$725 | | \$140 |) | \$1 | 40 | \$9 | \$95 \$135 | | 35 |
| LIWSA | \$70 | | \$140 |) | \$1 | 50 | \$105 | | \$14 | 40 |

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\$125

\$135

\$125

\$140

| | Current Cost Allocation (\$B) | | Equal Hi | qual HHI (\$B) Assessed Value (\$B) | | | All Tier 3 (\$B) | | All Tier 3 (\$B) | | Water Cor (\$ | |
|---------------------|-------------------------------------|--------------------|----------|--|-------------|-------------|------------------|--------|------------------|----------|------------------|--|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% | | |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% | | |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% | | |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% | | |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | | |
| Household Impact | | ent Cost cation | Equal | нні | Asse Val | ssed lue | All [.] | Tier 3 | Water Con | sumption | | |
| VSA | \$140 | | \$140 | 0 | \$185 | | \$220 | | \$170 | | | |
| NSSA | \$725 | | \$140 | 0 | \$1 | 40 | \$ | 95 | \$135 | | | |
| LIWSA | \$70 | | \$140 | 0 | \$1 | 50 | \$105 | | \$1 | 40 | | |
| FSA | \$80 | | \$140 | 0 | \$125 | | \$125 | | \$135 | | | |

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COST ALLOCATION OPTIONS FOR ADDED COSTS FOR THE NSWWTP PROGRAM 1. Allocation

| | Allo | ent Cost cation \$B) | Equal Hi | Н (\$B) | | essed e (\$B) | All Tie | er 3 (\$B) | Water Cor (\$ | sumption B) |
|-------|-------|----------------------------|----------|---------|-------|------------------|---------|------------|------------------|----------------|
| VSA | \$0.6 | 21% | \$0.7 | 24% | \$0.9 | 32% | \$1.0 | 37% | \$0.8 | 29% |
| NSSA | \$1.3 | 46% | \$0.2 | 8% | \$0.2 | 8% | \$0.2 | 6% | \$0.2 | 9% |
| LIWSA | \$0.1 | 4% | \$0.3 | 9% | \$0.3 | 10% | \$0.2 | 7% | \$0.3 | 9% |
| FSA | \$0.8 | 29% | \$1.6 | 59% | \$1.4 | 50% | \$1.4 | 50% | \$1.5 | 53% |
| Total | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% | \$2.8 | 100% |

| Household Impact | Current Cost Allocation | Equal HHI | Assessed Value | All Tier 3 | Water Consumption |
|---------------------|----------------------------|-----------|-------------------|------------|-------------------|
| VSA | \$140 | \$140 | \$185 | \$220 | \$170 |
| NSSA | \$725 | \$140 | \$140 \$140 | | \$135 |
| LIWSA | \$70 | \$140 | \$150 | \$105 | \$140 |
| FSA | \$80 | \$140 | \$125 | \$125 | \$135 |

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Current Cost Apportionment

| Scenario | Sewerage Area | Incremental HHI | Average Annual Levy Amount Over Amortization |
|----------|------------------|-----------------|---|
| | VSA | \$140 | \$46M |
| | NSSA | \$725 | \$71M |
| 1 | LIWSA | \$70 | \$9M |
| | FSA | \$80 | \$64M |
| | Total | | \$190M |

Adjusted Regional Spread (equal HHI)

| Scenario | Sewerage Area | Incremental HHI | Average Annual Levy Amount Over Amortization |
|----------|------------------|-----------------|---|
| | VSA | \$140 | \$46M |
| | NSSA | \$140 | \$15M |
| 2 | LIWSA | \$140 | \$23M |
| | FSA | \$140 | \$106M |
| | Total | | \$190M |

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COST ALLOCATION OPTIONS FOR ADDED COSTS FOR THE NSWWTP PROGRAM 1. Allocation

Adjusted Regional Spread (add \$10/HH for 3SAs)

| Scenario | Sewerage Area | Incremental HHI | Average Annual Levy Amount Over Amortization |
|----------|------------------|-----------------|---|
| | | | |
| | VSA | \$150 | \$50M |
| | NSSA | \$590 | \$58M |
| 3 | LIWSA | \$80 | \$11M |
| | FSA | \$90 | \$71M |
| | Total | | \$190M |

Adjusted Regional Spread (add \$20/HH for 3SAs)

| Scenario | Sewerage Area | Incremental HHI | Average Annual Levy Amount Over Amortization |
|----------|------------------|-----------------|---|
| | | | |
| | VSA | \$160 | \$54M |
| | NSSA | \$455 | \$45M |
| 4 | LIWSA | \$90 | \$13M |
| | FSA | \$100 | \$78M |
| | Total | | \$190M |

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Adjusted Regional Spread (add \$30/HH for 3SAs)

| Scenario | Sewerage Area | Incremental HHI | Average Annual Levy Amount Over Amortization |
|----------|------------------|-----------------|---|
| | VSA | \$170 | \$58M |
| | NSSA | \$320 | \$32M |
| 5 | LIWSA | \$100 | \$15M |
| | FSA | \$110 | \$85M |
| | Total | | \$190M |

Adjusted Regional Spread (add \$40/HH for 3SAs)

| Scenario | Sewerage Area | Incremental HHI | Average Annual Levy Amount Over Amortization |
|----------|------------------|-----------------|---|
| | | | |
| | VSA | \$180 | \$62M |
| | NSSA | \$185 | \$19M |
| 6 | LIWSA | \$110 | \$17M |
| | FSA | \$120 | \$92M |
| | Total | | \$190M |

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PHASE-IN OPTIONS FOR SEWERAGE LEVY

2. Phase in

| | Phase-in period for levy | 5 Year Debt Financing Impacts | Overall 5-Year HHI % Change |
|---|------------------------------------|-------------------------------|--------------------------------|
| 1 | 1 Year | ~\$90M savings | 31%, 5%, 5%, 5%, 5% |
| 2 | 1 Year for 3 SAs, 3 years for NSSA | ~\$75M savings | 26%, 7%, 6%, 5%, 5% |
| 3 | 2 Year | ~\$70M savings | 21%, 13%, 5%, 5%, 5% |
| 4 | 1 Year for 3 SAs, 5 year for NSSA | ~\$60M savings | 25%, 6%, 6%, 6%, 6% |
| 5 | 3 Year | ~\$20M savings | 18%, 10%, 10%, 5%, 5% |
| 6 | 4 Year * | ~ -\$25M cost | 16%, 9%, 9%, 8%, 5% |
| 7 | 5 Year * | ~ -\$60M cost | 15%, 8%, 8%, 8%, 8% |

^{*} Will result in cash flow challenge and will need to increase rates post 5 years (not recommended)

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SCENARIOS FOR CONSIDERATION

Choose one phase-in period and one allocation option

| 5 Year Debt Financing Impacts | Phase-in Period for Levy |
|-------------------------------------|---|
| ~\$90M avoid | 1 Year |
| ~\$75M avoid | 1 Year for 3 sewerage areas, 3 years for NSSA |
| ~\$70M avoid | 2 Year |
| ~\$60M avoid | 1 Year for 3 sewerage areas, 5 year for NSSA |
| ~\$20M avoid | 3 Year |
| ~ -\$25M cost | 4 Year * |
| ~ -\$60M cost | 5 Year * |

| Allocation Options |
|---------------------------------------|
| Current (variable and \$725 for NSSA) |
| \$140 for each household in region |
| Adjusted (+\$10 and \$590 for NSSA) |
| Adjusted (+\$20 and \$455 for NSSA) |
| Adjusted (+\$30 and \$320 for NSSA) |
| Adjusted (+\$40 and \$185 for NSSA) |

^{*}Would present cash flow challenge. Would need to increase rates after 5 years (not recommended)

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SCENARIOS FOR CONSIDERATION

Scenario Provided at April Board Budget Workshop

| 5 Year Debt Financing Impacts | Phase-in Period for Levy |
|-------------------------------------|---|
| ~\$90M avoid | 1 Year |
| ~\$75M avoid | 1 Year for 3 sewerage areas, 3 years for NSSA |
| ~\$70M avoid | 2 Year |
| ~\$60M avoid | 1 Year for 3 sewerage areas, 5 year for NSSA |
| ~\$20M avoid | 3 Year |
| ~ -\$25M cost | 4 Year * |
| ~ -\$60M cost | 5 Year * |

| Allocation Options |
|---------------------------------------|
| Current (variable and \$725 for NSSA) |
| \$140 for each household in region |
| Adjusted (+\$10 and \$590 for NSSA) |
| Adjusted (+\$20 and \$455 for NSSA) |
| Adjusted (+\$30 and \$320 for NSSA) |
| Adjusted (+\$40 and \$185 for NSSA) |

^{*}Would present cash flow challenge. Would need to increase rates after 5 years (not recommended)

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SCENARIOS FOR CONSIDERATION

Scenario Provided at April Board Budget Workshop

| 5 Year Debt Financing Impacts | Phase-in Period for Levy |
|-------------------------------------|---|
| ~\$90M avoid | 1 Year |
| ~\$75M avoid | 1 Year for 3 sewerage areas, 3 years for NSSA |
| ~\$70M avoid | 2 Year |
| ~\$60M avoid | 1 Year for 3 sewerage areas, 5 year for NSSA |
| ~\$20M avoid | 3 Year |
| ~ -\$25M cost | 4 Year * |
| ~ -\$60M cost | 5 Year * |

| Allocation Options | |
|---------------------------------------|--|
| Current (variable and \$725 for NSSA) | |
| \$140 for each household in region | |
| Adjusted (+\$10 and \$590 for NSSA) | |
| Adjusted (+\$20 and \$455 for NSSA) | |
| Adjusted (+\$30 and \$320 for NSSA) | |
| Adjusted (+\$40 and \$185 for NSSA) | |

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SCENARIOS FOR CONSIDERATION

| 5 Year Debt Financing Impacts | Phase-in Period for Levy |
|-------------------------------------|---|
| ~\$90M avoid | 1 Year |
| ~\$75M avoid | 1 Year for 3 sewerage areas, 3 years for NSSA |
| ~\$70M avoid | 2 Year |
| ~\$60M avoid | 1 Year for 3 sewerage areas, 5 year for NSSA |
| ~\$20M avoid | 3 Year |
| ~ -\$25M cost | 4 Year * |
| ~ -\$60M cost | 5 Year * |

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| Allocation Options | |
|---------------------------------------|-------|
| Current (variable and \$725 for NSSA) | |
| \$140 for each household in region | |
| Adjusted (+\$10 and \$590 for NSSA) | \$775 |
| Adjusted (+\$20 and \$455 for NSSA) | \$605 |
| Adjusted (+\$30 and \$320 for NSSA) | |
| Adjusted (+\$40 and \$185 for NSSA) | |

* If NSSA chooses 15-year amortization, debt service savings is \$297M to \$382M; but accrues to NSSA)

^{*}Would present cash flow challenge. Would need to increase rates after 5 years (not recommended)

DIRECTION TO STAFF

Recommendation in the report is to receive for information However, staff are seeking direction on how to prepare the 2025 Budget and 2025-2029 Financial Plan in terms of:

- 1. Allocation How to allocate the \$2.8B required to complete the NSWWTP Program (Table 6)
- 2. Phase in How to phase in the required levy (Table 7)

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BOARD RESOLUTION

"That the MVRD / MVHC / GVS&DD / GVWD Boards direct staff to prepare the 2025 Budget and 2025-2029 Financial Plan by allocating the \$2.8B required to complete the NSWWTP Program according to [insert Option 1,2,3,4,5, or 6 from Table 6] and phasing the levy in according to [insert Option 1,2,3,4,5,6, or 7 from Table 7]".

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