

[http://www.metrovancouver.org/boards/GVWD%20Board/GVWD\\_Board-July\\_29\\_2011-Agenda.pdf](http://www.metrovancouver.org/boards/GVWD%20Board/GVWD_Board-July_29_2011-Agenda.pdf)

# AGENDA

## *GREATER VANCOUVER WATER DISTRICT (GVWD) REGULAR MEETING*

**Friday, July 29, 2011  
9:00 a.m.  
2<sup>nd</sup> Floor Boardroom  
4330 Kingsway, Burnaby, BC**

**Board Members:**

*Chair, Director* Lois Jackson, Delta  
*Vice Chair, Director* Richard Walton, North Vancouver District  
Director Heather Anderson, Anmore  
Director Kim Baird, Tsawwassen  
Director Malcolm Brodie, Richmond  
Director Derek Corrigan, Burnaby  
Director Ernie Daykin, Maple Ridge  
Director Heather Deal, Vancouver  
Director Sav Dhaliwal, Burnaby  
Director Ralph Drew, Belcarra  
Director Charlie Fox, Langley Township  
Director Pamela Goldsmith-Jones, West Vancouver  
Director Maria Harris, Electoral Area A  
Director Linda Hepner, Surrey  
Director Marvin Hunt, Surrey  
Director Colleen Jordan, Burnaby

Director Raymond Louie, Vancouver  
Director Don MacLean, Pitt Meadows  
Director Gayle Martin, Langley City  
Director Geoff Meggs, Vancouver  
Director Greg Moore, Port Coquitlam  
Director Darrell Mussatto, North Vancouver City  
Director Andrea Reimer, Vancouver  
Director Gregor Robertson, Vancouver  
Director Lou Sekora, Coquitlam  
Director Tim Stevenson, Vancouver  
Director Harold Steves, Richmond  
Director Richard Stewart, Coquitlam  
Director Joe Trasolini, Port Moody  
Director Judy Villeneuve, Surrey  
Director Dianne Watts, Surrey  
Director Wayne Wright, New Westminster  
Commissioner, Johnny Carline\*



\* Non-voting member.

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**NOTICE OF REGULAR MEETING  
GREATER VANCOUVER WATER DISTRICT (GVWD)  
BOARD OF DIRECTORS**

**9:00 a.m.  
Friday, July 29, 2011  
2<sup>nd</sup> Floor Boardroom, 4330 Kingsway, Burnaby, British Columbia.**

**A G E N D A**

**A. ADOPTION OF THE AGENDA**

**1. July 29, 2011 Regular Meeting Agenda**

*Staff Recommendation:*

That the Board adopt the agenda for its regular meeting scheduled for July 29, 2011 as circulated.

**B. ADOPTION OF THE MINUTES**

**1. June 24, 2011 Regular Meeting Minutes**

*Staff Recommendation:*

That the Board adopt the minutes for its regular meeting held June 24, 2011 as circulated.

**C. DELEGATIONS**

No items presented.

**D. INVITED PRESENTATIONS**

No items presented.

**E. CONSENT AGENDA**

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

**1. WATER REPORTS**

**1.1 Adoption of the 2011 Drinking Water Management Plan**

*Water Committee Recommendation:*

That the Board:

- a) Adopt the *Drinking Water Management Plan for Metro Vancouver and Members* dated June 2011; and
- b) Refer the municipal actions in the *Drinking Water Management Plan for Metro Vancouver and Members* to the councils of members for their adoption.

## **2. OTHER REPORTS**

### **2.1 Delegations' Executive Summaries Presented at Committee – July 2011**

*Staff Recommendation:*

That the Board receive for information the report dated July 14, 2011 titled "Delegations' Executive Summaries Presented at Committee – July 2011".

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

#### **G. REPORTS FROM COMMITTEE OR STAFF NOT INCLUDED IN CONSENT AGENDA**

No items presented.

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

No items presented.

#### **I. OTHER BUSINESS**

No items presented.

#### **J. RESOLUTION TO CLOSE MEETING**

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

*Staff Recommendation:*

That the Board close its regular meeting scheduled for July 29, 2011 pursuant to the *Community Charter* provisions, Section 90 (1)(i) as follows:

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

- (i) the receipt of advice that is subject to solicitor-client privilege, including communications necessary for that purpose."

#### **K. ADJOURNMENT**

*Staff Recommendation:*

That the Board conclude its regular meeting of July 29, 2011.



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## GREATER VANCOUVER WATER DISTRICT BOARD OF DIRECTORS

Minutes of the Regular Meeting of the Greater Vancouver Water District (GVWD) Board of Directors held at 9:36 a.m. on Friday, June 24, 2011 in the 2<sup>nd</sup> Floor Boardroom, 4330 Kingsway, Burnaby, British Columbia.

### MEMBERS PRESENT:

Chair, Director Lois Jackson, Delta  
Vice Chair, Director Richard Walton,  
North Vancouver District  
Director Heather Anderson, Anmore  
Director Malcolm Brodie, Richmond  
Director Derek Corrigan, Burnaby  
Director Ernie Daykin, Maple Ridge  
Director Heather Deal, Vancouver  
(arrived at 9:45 a.m.)  
Director Sav Dhaliwal, Burnaby  
Director Ralph Drew, Belcarra  
Director Charlie Fox, Langley Township  
(departed at 9:54 a.m.)  
Alternate Director Gary Gibson, Electoral  
Area A, for Maria Harris  
Director Pamela Goldsmith-Jones,  
West Vancouver  
Director Linda Hepner, Surrey  
Director Marvin Hunt, Surrey  
Alternate Director Kerry Jang, Vancouver,  
for Raymond Louie

Alternate Director Marvin Joe, Tsawwassen  
(departed at 9:50 a.m.)  
Director Colleen Jordan, Burnaby  
Alternate Director Meghan Lahti, Port Moody,  
for Joe Trasolini  
Director Don MacLean, Pitt Meadows  
Director Gayle Martin, Langley City  
Director Geoff Meggs, Vancouver  
Director Greg Moore, Port Coquitlam  
Director Darrell Mussatto, North Vancouver City  
Director Andrea Reimer, Vancouver  
Director Lou Sekora, Coquitlam  
Alternate Director Barbara Steele, Surrey,  
for Dianne Watts (departed at 9:37 a.m.)  
Director Tim Stevenson, Vancouver  
Director Harold Steves, Richmond  
Director Richard Stewart, Coquitlam  
Director Judy Villeneuve, Surrey  
Director Wayne Wright, New Westminster  
Commissioner Johnny Carline\*

### MEMBERS ABSENT:

Director Gregor Robertson, Vancouver

### STAFF PRESENT:

Paulette Vetleson, Corporate Secretary/  
Manager, Board Secretariat and Corporate  
Information Department

Klara Kutakova, Assistant to Regional  
Committees, Board Secretariat and Corporate  
Information Department

## A. ADOPTION OF THE AGENDA

### 1. June 24, 2011 Regular Meeting Agenda

#### It was MOVED and SECONDED

That the Board adopt the agenda for its regular meeting scheduled for June 24, 2011 as circulated.

**CARRIED**

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\* Non-voting member.

**B. ADOPTION OF THE MINUTES**

**1. May 27, 2011 Regular Meeting Minutes**

**It was MOVED and SECONDED**

That the Board adopt the minutes for its regular meeting held May 27, 2011 as circulated.

**CARRIED**

**C. DELEGATIONS**

No items presented.

**D. INVITED PRESENTATIONS**

No items presented.

**E. CONSENT AGENDA**

No items presented.

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

No items presented.

**G. REPORTS FROM COMMITTEE OR STAFF NOT INCLUDED IN CONSENT AGENDA**

**1. Update on Fisheries Initiatives in the Capilano, Seymour and Coquitlam Watersheds**

Report dated June 8, 2011, together with report dated May 31, 2011 from Albert van Roodselaar, Utility Analysis and Environment Division Manager, and Derek Bonin, Planning Forester, Policy and Planning Department, providing an update on the fisheries initiatives underway in collaboration with agencies to mitigate the impacts to the fisheries resource within the Capilano, Seymour and Coquitlam watersheds.

Derek Bonin, Planning Forester, Policy and Planning Department, provided the Board with the presentation titled "Update on Fisheries Initiatives in the Capilano, Seymour and Coquitlam Watersheds", which is retained with the June 24, 2011 Greater Vancouver Water District Board agenda.

Discussion ensued on costs associated with the initiative and funding contributed by other agencies.

9:37 a.m.

Director Steele departed the meeting.

9:45 a.m.

Director Deal arrived at the meeting.

**Request of Staff**

For the 2012 budget, staff was requested to provide an overview of costs associated with financial and in-kind contributions from other organizations



collaborating with Metro Vancouver on the fisheries initiatives within the Capilano, Seymour and Coquitlam watersheds.

9:50 a.m.

Director Joe departed the meeting.

9:54 a.m.

Director Fox departed the meeting.

**It was MOVED and SECONDED**

That the Board receive for information the presentation made at its June 24, 2011 meeting, titled "Update on Fisheries Initiatives in the Capilano, Seymour and Coquitlam Watersheds".

**CARRIED**

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

No items presented.

**I. OTHER BUSINESS**

No items presented.

**J. RESOLUTION TO CLOSE MEETING**

No items presented.

**K. ADJOURNMENT**

**It was MOVED and SECONDED**

That the Board conclude its regular meeting of June 24, 2011.

**CARRIED**

(Time: 9:58 a.m.)

CERTIFIED CORRECT

\_\_\_\_\_  
Paulette A. Vetleson, Corporate Secretary

\_\_\_\_\_  
Lois E. Jackson, Chair

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## CONSENT AGENDA

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Water Committee Meeting Date: July 13, 2011

To: Water Committee

From: Stan Woods, Senior Engineer, Policy and Planning Department

Date: June 20, 2011

Subject: **Adoption of the 2011 Drinking Water Management Plan**

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*Recommendation:*

That the Board:

- a) Adopt the *Drinking Water Management Plan for Metro Vancouver and Members* dated June 2011; and
  - b) Refer the municipal actions in the *Drinking Water Management Plan for Metro Vancouver and Members* to the councils of members for their adoption.
- 

## **1. PURPOSE**

To have the Board adopt the *Drinking Water Management Plan for Metro Vancouver and Members* (Attachment 1) and refer the municipal actions in the plan (Attachment 2) to the councils of members for their adoption.

## **2. CONTEXT**

In April 2011, the Board directed staff to consult with member municipalities, affected agencies and the public on the working draft of the Drinking Water Management Plan (DWMP) and consider the results of this consultation in preparing the final DWMP for Board adoption.

### **Outreach on the DWMP**

Metro Vancouver outreach on the Draft 2011 Drinking Water Management Plan has included the following:

- Discussions at 4 meetings of municipal staff advisory committees between April 29 and May 25;
- Two workshops with municipal staff on May 11 and June 1;
- Information on the 2011 update of the DWMP was provided on the Metro Vancouver website beginning May 4 and the public could submit comments until June 1, 2011;
- Public Open House on May 26 – with 14 people attending;
- Public Webinar on May 30 – with 11 people participating;

- Workshop with municipal staff and staff from Vancouver Coastal Health and Fraser Health on June 6;
- Phone and email comments from municipal staff;
- Minister of Environment's comments on water metering and water conservation in his May 30, 2011 letter approving the Metro Vancouver Liquid Waste Management Plan (Attachment 3).

### **Revisions to the Working Draft Drinking Water Management Plan**

Suggestions on revisions to the working draft Drinking Water Management Plan began in late April 2011 and ended with completion of the municipal staff outreach process on June 15, 2011. Changes were suggested to the actions and text of the plan but there were no suggested changes to the goals and strategies in the plan. Overall, feedback was strongly supportive of the plan, its comprehensive scope, and its focus on turning ideas into actions.

As requested at the April 2011 Board meeting, a special effort was made to invite staff from UBC and UEL to participate in the plan review process and staff from UBC did participate.

Based on input received, the draft plan has been revised to:

- Highlight the positive aspects of the plan such as securing future water supplies by modifying text in several locations in the plan. This revision was suggested by municipal staff and also addresses questions from the public;
- Clarify that the DWMP includes GVWD member municipalities and GVWD member treaty first nation; Tsawwassen First Nation. This revision was suggested by staff from Tsawwassen First Nation;
- Note the role and responsibility of building owners and homeowners in ensuring piping systems are in good working order once treated drinking water enters their property. This suggestion was made by municipal staff and medical health staff;
- Clarify that municipalities should reassess the merits of developing residential water metering programs and municipal rebate programs for water efficient fixtures and appliances. This suggestion was initially made by municipal staff and these programs were "*strongly encouraged*" by the Minister of Environment in condition two of his May 30, 2011, letter approving the Metro Vancouver Liquid Waste Management Plan (Attachment 3).
- Clarify that Metro Vancouver should work *in partnership with member municipalities* in implementing a region wide water conservation program targeting the industrial, commercial, institutional and agricultural sectors. The additional phrase that Metro Vancouver would work *in partnership with member municipalities* was initially made by municipal staff while the Minister of Environment "encouraged" Metro Vancouver, *in partnership with member municipalities*, to pursue a region wide water conservation program as condition three of his May 30, 2011, letter approving the Metro Vancouver Liquid Waste Management Plan.
- Clarify the importance of communication and partnerships in the explanatory text and several actions in the plan. These suggestions were made by municipal staff and also addresses questions from the public;

- Re-word performance measures 1 and 2 to indicate we are striving for 100% (or high percentages) of treated water samples negative for bacteria. This suggestion was made by municipal staff and medical health staff;
- Clarify that performance measures 7 and 10 apply to *water delivered by Metro Vancouver* as it is not practical to extend measurement into the municipal water systems. This suggestion was made by municipal staff.

Of the 56 actions in the DWMP, there was a consensus of municipal staff and Metro Vancouver staff to revise the wording of 14 actions. The revised *Drinking Water Management Plan for Metro Vancouver and Members* dated June 2011 is attached (Attachment 1).

### **Implications of Adopting the DWMP**

Over time, the benefits of implementing the Drinking Water Management Plan will include consistently higher quality water, improved water supply reliability and as per capita water demand decreases the opportunity to defer additional water supply infrastructure. This 2011 update of the DWMP does not include any new actions for Metro Vancouver that are not included in existing programs and budgets or any new actions for municipalities from the existing DWMP. Consequently, this 2011 update of the DWMP should not have any unexpected impact on Metro Vancouver or municipal water supply budgets.

Attachment 2 lists the actions in the Drinking Water Management Plan to be implemented by member municipalities and Tsawwassen First Nation.

### **3. ALTERNATIVES**

The following alternatives are presented:

- a) Adopt the Drinking Water Management Plan dated June 2011 and update the Board's strategic direction on drinking water.
- b) Refer the Drinking Water Management Plan back to staff with direction on which issues and concerns need further attention.

It is recommended that the Board adopt the *Drinking Water Management Plan for Metro Vancouver and members* and refer the municipal actions in the plan to the councils of member municipalities and Tsawwassen First Nation for their adoption.

### **4. CONCLUSION**

The Drinking Water Management Plan has been updated to reflect the Board's current strategic direction on drinking water. This update has been developed as a joint effort between Metro Vancouver and its members. The 2011 Drinking Water Management Plan has been finalized following an outreach process with members, affected agencies and the public and can now be considered by the Board and member councils for adoption.

**Attachments:**

- 1 Drinking Water Management Plan for Metro Vancouver and Members dated June 2011 (5239585)
- 2 Actions in the 2011 Drinking Water Management Plan for Member Municipalities and Tsawwassen First Nation (5225900)
- 3 Letter dated May 30, 2011 from Minister of Environment Terry Lake to Chair Lois Jackson approving the Metro Vancouver Liquid Waste Management Plan (5198373)





Metro Vancouver  
**Drinking Water  
Management Plan**

JUNE 2011



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# VISION

## THE DRINKING WATER MANAGEMENT PLAN

Metro Vancouver and member municipalities work together to supply clean, safe drinking water to more than 2.3 million people and associated businesses in the Metro Vancouver region. The Drinking Water Management Plan (DWMP) ensures that our region's water needs will be met affordably and sustainably. This will be done by using water more efficiently so that the water supply stretches out into the future even as the region's population continues to grow and increasing supply from the Coquitlam Lake reservoir.

The investments in water treatment, supply and conservation programs included in this plan will increase the cost of drinking water but the benefits include consistently higher quality drinking water, improved supply reliability, and greater environmental protection.

Metro Vancouver commits to provide clean, safe drinking water and ensure its sustainable use.

## PART ONE: PLAN OVERVIEW

### Metro Vancouver Sustainability Framework

Since 2002 Metro Vancouver has formally put the concept of sustainability at the centre of its operating and planning philosophy and advanced its role as a leader in the attempt to make the region one which is explicitly committed to a sustainable future. This comprehensive endeavour became known as the Sustainable Region Initiative, or more familiarly as the 'SRI'. In 2008, Metro Vancouver's Board adopted a Sustainability Framework outlining its vision, mission, values, sustainability imperatives, and sustainability principles. Depicted in Figure 1, the Sustainability Framework provides the foundation for Metro Vancouver's suite of plans, including the Drinking Water Management Plan (DWMP).

### Regional Vision

Metro Vancouver has an opportunity and a vision to achieve what humanity aspires to on a global basis – the highest quality of life embracing cultural vitality, economic prosperity, social justice and compassion, all nurtured in and by a beautiful and healthy natural environment.

We will achieve this vision by embracing and applying the principles of sustainability, not least of which is an unshakeable commitment to the well-being of current and future generations and the health of our planet, in everything we do.

As we share our efforts in achieving this vision, we are confident that the inspiration and mutual learning we gain will become vital ingredients in our hopes for a sustainable common future.

Metro Vancouver is a political body and corporate entity operating under provincial legislation as a 'regional district' and 'greater boards' that delivers regional services, planning and political leadership on behalf of 24 local authorities. It comprises of:

CITY OF  
ABBOTSFORD

VILLAGE OF  
ANMORE

VILLAGE OF  
BELCARRA

BOWEN ISLAND  
MUNICIPALITY

CITY OF BURNABY

CITY OF  
COQUITLAM

CORPORATION OF  
DELTA

CITY OF LANGLEY

ELECTORAL  
AREA A  
(UNINCORPORATED  
AREA)

TOWNSHIP OF  
LANGLEY

VILLAGE OF  
LIONS BAY

DISTRICT OF  
MAPLE RIDGE

CITY OF NEW  
WESTMINSTER

CITY OF NORTH  
VANCOUVER

DISTRICT OF NORTH  
VANCOUVER

CITY OF  
PITT MEADOWS

CITY OF PORT  
COQUITLAM

CITY OF  
PORT MOODY

CITY OF RICHMOND

CITY OF SURREY

TSAWWASSEN  
FIRST NATION

CITY OF  
VANCOUVER

DISTRICT OF WEST  
VANCOUVER

CITY OF  
WHITE ROCK

Figure 1 Metro Vancouver's Sustainability Framework

## The Metro Vancouver Sustainability Framework

**REGIONAL VISION** The highest quality of life embracing cultural vitality, economic prosperity, social justice and compassion, all nurtured in and by a beautiful and healthy natural environment. Achieved by an unshakeable commitment to the well-being of current and future generations and the health of our planet, in everything we do.

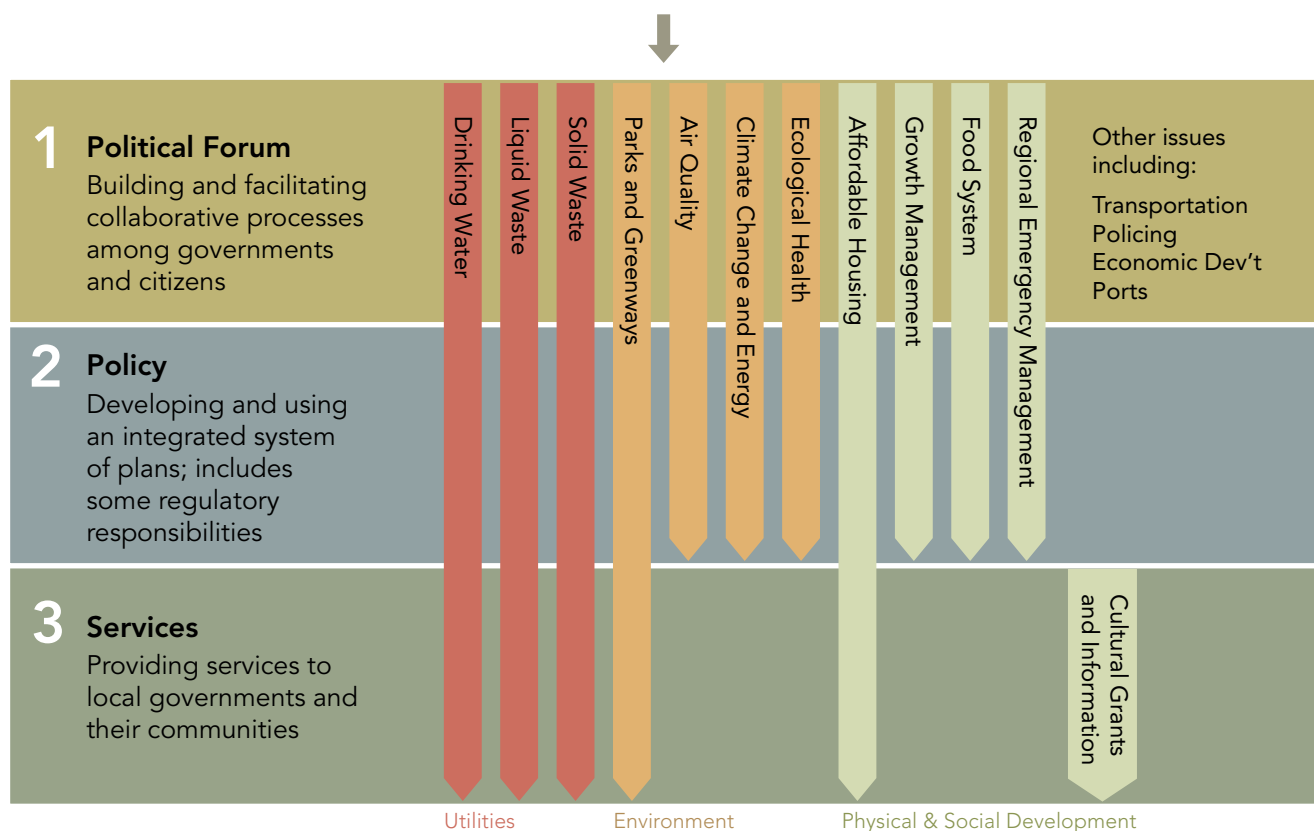
**METRO VANCOUVER ROLE AND MISSION** Serve the region and attain excellence in meeting these responsibilities. Plan for the future by developing and using an integrated system of plans. Facilitate collaboration with local governments and citizens.

**VALUES** Integrity is our foundation. Passion for our work and pride in our accomplishments are our drivers. Respect for the public and compassion in our relationships are our guideposts.

**SUSTAINABILITY IMPERATIVES** Have regard for local and global consequences and long-term impacts. Recognize and reflect the interconnectedness and interdependence of systems. Be collaborative.

**SUSTAINABILITY PRINCIPLES** Protect and enhance the natural environment. Provide for ongoing prosperity. Build community capacity and social cohesion.

...these are the foundation for Metro Vancouver's three interconnected roles:



Progress towards a sustainable region is measured by

**METRICS, TARGETS and KEY DELIVERABLES**

which establish strategic priorities and key activities

## Context for the Drinking Water Management Plan

### History

The forested Capilano, Seymour, and Coquitlam Watersheds are the source of water supply for Metro Vancouver. Access to these mountainous watersheds is restricted and these protected watersheds have long been a key component in the region's water supply system. In 2005, the Board of the Greater Vancouver Water District approved the Drinking Water Management Plan (DWMP) for Metro Vancouver and its member municipalities. In 2007, the Plan was amended to fully incorporate management of the source watersheds. Since that time, a number of changes have occurred to improve the quantity and quality of water, the most notable being the commissioning of the Seymour-Capilano Filtration Plant.

### Trends, Challenges, Opportunities

Metro Vancouver currently has sufficient quantities of water from its source watersheds to meet the region's needs until at least mid-century. Water continues to be a key economic, social, and environmental driver but demand for this resource will increase with time. The region is expected to grow by 35,000 people per year for the next few decades. Population growth will place demands not only on water supply, but also on water infrastructure if not carefully planned. While climate change predictions do not show a large shift in the amount of precipitation for the region, they do indicate that snow packs at lower elevations will decrease, springs will be earlier, and summers will be longer. These predicted changes in climate may place more stress on the drinking water supply system. In addition, predicted increases in storm activity during the rainy season may result in increased slope failures and river channel instability leading to increased turbidity in source reservoirs and increased treatment costs. Further opportunities can be identified to continue the trend of declining per-capita water use.

### Roles and Responsibilities

Metro Vancouver and its municipalities work together to supply clean, safe drinking water to more than 2.3 million people and associated businesses in the Metro Vancouver region. In this Drinking Water Management Plan reference to Metro Vancouver usually means the Greater Vancouver Water District (GVWD) and reference to municipalities means GVWD member municipalities and member treaty first nation, Tsawwassen First Nation. Metro Vancouver owns and operates the water supply, treatment and regional water supply system while municipalities own and operate the local water distribution systems to supply water to residents and businesses. Homeowners, building owners, industry, commercial businesses, and institutions also have a role and responsibility in ensuring their piping systems are in good order once water enters their property. Metro Vancouver and its municipalities are taking steps to improve water monitoring and metering systems, to improve energy efficiency, and to implement what can be considered the 5Rs of resource management (reduce, reuse, reclaim, recover, and respect the use of water for other purposes). This updated DWMP provides the direction and priority for drinking water initiatives in a sustainable context.

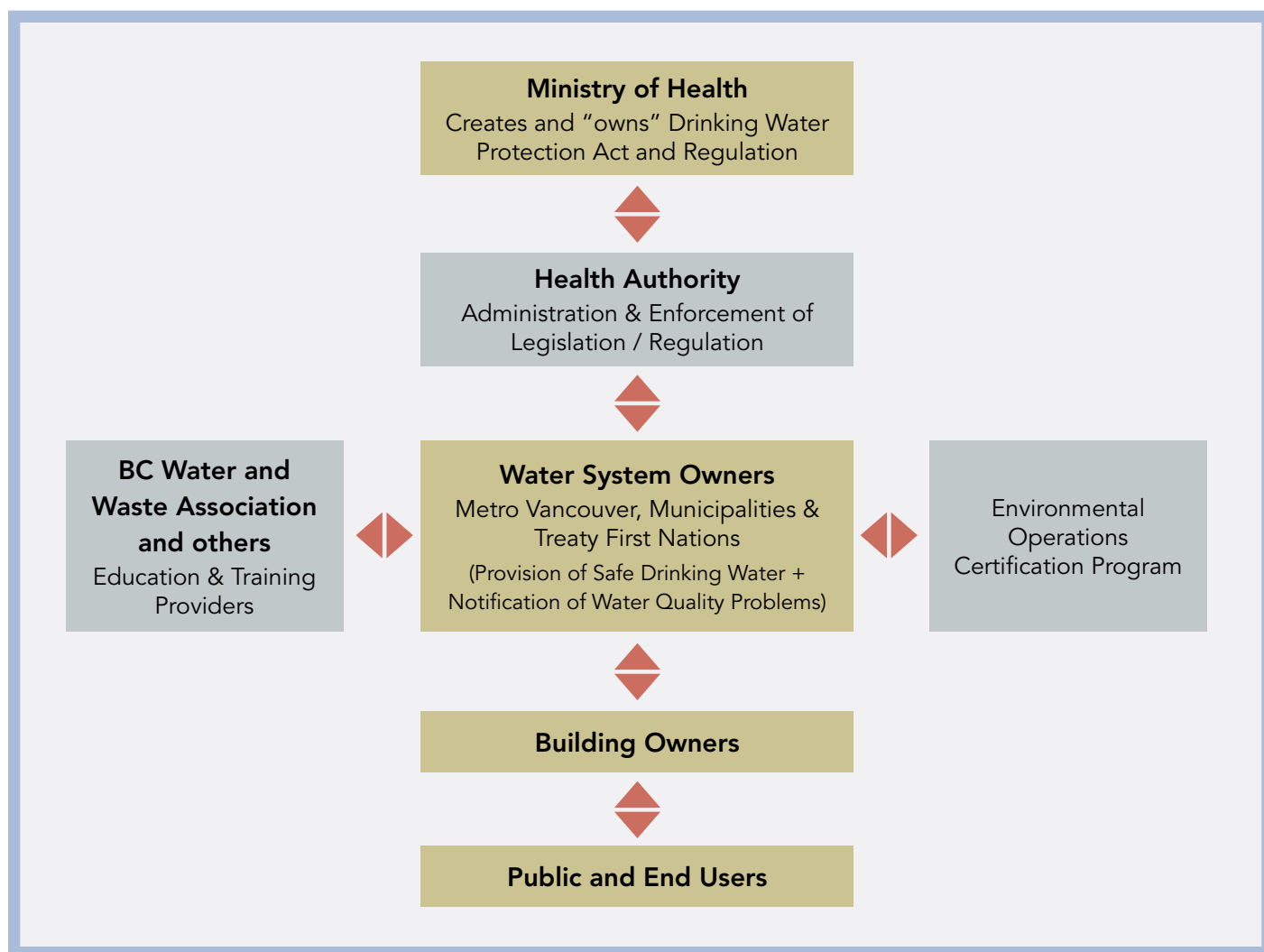


## Provincial Government Oversight of Drinking Water Systems

British Columbia's health authorities have a key role in providing provincial government oversight of drinking water systems. In particular, provincial government direction on provision of safe drinking water is administered locally by drinking water officers, public health engineers and medical health officers through issuance of an operating permit. The Metro Vancouver drinking water system is built and operated as one water system

with portions of the system in the two Health Authorities that cover the Lower Mainland; Vancouver Coastal Health, and Fraser Health. The Vancouver Coastal Health drinking water officers provide surveillance and monitoring of those aspects of Metro Vancouver's drinking water systems that may affect public health. They also administer and enforce the Drinking Water Protection Act, the Drinking Water Protection Regulation and the Health Act (Figure 2).

**Figure 2** Roles and responsibilities in the provision of safe drinking water sourced from Metro Vancouver's watersheds



Drinking water officers and public health engineers are contacted prior to the alteration of the drinking water system regarding construction permits and changes to operating permits. Water suppliers, such as Metro Vancouver and municipalities, have the water from their systems analyzed for the presence of microbiological pathogens and other indicator organisms by laboratories approved by the Provincial Health Officer.

From a water allocation or water quantity perspective, the *Provincial Water Act* is central to the water governance framework. The Provincial Water Act was last changed in 2004, driven primarily by growing concerns for the protection of drinking water quality. In addition to a new *Drinking Water Protection Act*, the 2004 Water Act amendments provided B.C. with its first mechanisms to protect groundwater and a process for watershed management planning to address or prevent conflicts among or between water users and the environment, and the protection of water quality.

## Aligning with Provincial Initiatives

The strategies and actions identified in the Drinking Water Management Plan (DWMP) align with the following recent Provincial initiatives:

### **ACTION PLAN FOR SAFE DRINKING WATER IN BRITISH COLUMBIA**

This plan includes comprehensive legislation and measures to protect drinking water from source to tap by improving monitoring, treatment, reporting, and accountability to the public. The Province's Action Plan sets out specific principles and actions to ensure British Columbians enjoy safe, clean, healthy drinking water as effectively, efficiently, and reliably as possible. The DWMP addresses all these concerns and continues to update them as required as best management practices evolve.

### **LIVING WATER SMART: BRITISH COLUMBIA'S WATER PLAN**

Water Smart objectives supported by the DWMP include supporting rainwater harvesting and water reclamation actions, helping to address the impacts of climate change, and implementing actions that result in matching water quality to usage requirements.

### **WATER SUSTAINABILITY ACT (PROPOSED REVISION TO THE WATER ACT)**

This proposed new act would revise the Water Act to lessen our water footprint and transition to a new way of managing water. This includes a number of water policies that propose to improve water use efficiency, conservation, protect stream health and aquatic environments, and regulate water during scarcity.

### **BC CLIMATE ACTION PLAN**

This Plan sets a provincial target of 33 percent less greenhouse gas emissions by 2020 and 80 percent by 2050. The DWMP contributes to meeting these targets by prioritizing gravity systems where possible, assessing hydropower at existing reservoir dams, recovering energy where feasible and upgrading pump technologies.

### **INTEGRATED RESOURCE RECOVERY**

Integrated Resource Recovery (IRR), formally defined by the Province in 2008 in a report titled *Resources from Waste: A Guide to Integrated Resource Recovery*, is a concept and approach that integrates the management of water, wastewater, energy, and solid waste services to recover resources and value to help increase resiliency.

**Figure 3** Metro Vancouver's Interconnected Management Plans



## Coordinating with other Metro Vancouver Plans

The Drinking Water Management Plan is one plan among a suite of interconnected management plans developed around Metro Vancouver's Sustainability Framework (Figure 3). The following section summarizes key links between Metro Vancouver's plans and outlines where actions identified in other Metro Vancouver plans affect the Drinking Water Management Plan, and conversely where actions in this DWMP make a contribution to the goals of other Metro Vancouver plans.

**Table 1** Metro Vancouver Management Plan Linkages

## Linkages Between Metro Vancouver Plans

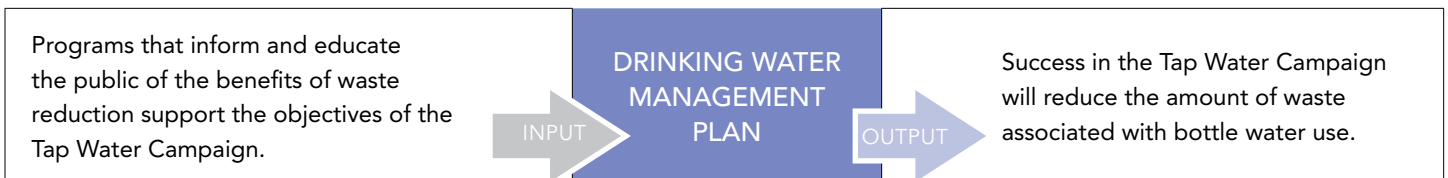
### INTEGRATED LIQUID WASTE AND RESOURCE MANAGEMENT PLAN



### REGIONAL GROWTH STRATEGY



### INTEGRATED SOLID WASTE AND RESOURCE MANAGEMENT PLAN



## Linkages Between Metro Vancouver Plans

### REGIONAL FOOD SYSTEMS STRATEGY



### AIR QUALITY MANAGEMENT PLAN



### REGIONAL PARKS AND GREENWAYS PLAN



## PART TWO: GOALS, STRATEGIES and ACTIONS

### Goal 1: Provide Clean, Safe Drinking Water

Metro Vancouver and its municipalities are committed to providing reliable access to adequate quantities of clean, safe drinking water to the citizens and businesses of Metro Vancouver.



### Strategy 1.1 Use a risk management multi-barrier approach from source to tap

Beginning with protected source watersheds, the region's water supply system provides multiple barriers to contamination. Projects such as the Seymour-Capilano Filtration Plant and the addition of the ultraviolet treatment plant at Coquitlam will further reduce the risks to water quality.

#### METRO VANCOUVER WILL:

1.1.1 Complete the Seymour-Capilano Filtration Project. 2013

1.1.2 Improve the primary disinfection treatment of Coquitlam source water for *Cryptosporidium* by adding ultraviolet treatment. 2013

1.1.3 Complete the reassessment of the secondary disinfection system after completion of the Seymour-Capilano Filtration Project. 2016

#### ON-GOING ACTIONS

1.1.4 Preserve water quality in the Metro Vancouver system by utilizing best management practices that include urban reservoir cleaning and circulating water to maintain appropriate chlorine levels.

1.1.5 Monitor water supply and water quality and use this information to optimize source water treatment, operation of the Metro Vancouver water system and rechlorination programs, and communicate system changes to agencies and municipalities as appropriate.

1.1.6 Implement, administer, and maintain backflow prevention and cross-connection control programs within the Metro Vancouver system to protect the public water system from hazards originating on customers' premises or from temporary connections.

1.1.7 Ensure continuous improvement for the management and operation of the Metro Vancouver water system by ongoing application of Metro Vancouver's Management System for Drinking Water.

1.1.8 Present an annual Metro Vancouver Water Quality Report to the Board of Directors.

#### MUNICIPALITIES WILL:

1.1.9 Complete the reassessment of the secondary disinfection system within the municipal distribution network in coordination with Metro Vancouver after completion of the Seymour-Capilano Filtration Project. 2016

#### ON-GOING ACTIONS

1.1.10 Monitor water quality in the municipal distribution systems and use this information to optimize water quality through operation of the municipal water system.

1.1.11 Preserve water quality in the distribution system through proactive maintenance programs that include water main flushing, cleaning of municipal reservoirs, and eliminating dead-ends where possible.

1.1.12 Implement, administer, and maintain backflow prevention and cross-connection control programs within the municipal distribution system to protect the public water system from hazards originating on customers' premises or from temporary connections.

## Strategy 1.2 Manage watersheds to provide clean, safe water

Metro Vancouver's closed and protected watersheds minimizes human access and human activity and significantly reduces the risk from microbiological or chemical contamination and fires.

#### METRO VANCOUVER WILL:

1.2.1 Where feasible and appropriate, restore disturbed areas and deactivate watershed roads that are no longer required to minimize the risk of landslides and erosion, and reduce long-term maintenance costs. 2013

#### ON-GOING ACTIONS

1.2.2 Provide reliable and timely information on source water quality, stream flow, and fire risk to minimize risks to water quality, manage source reservoirs and optimize water treatment.

1.2.3 Manage the watersheds with a minimum intervention approach. Intervention is only necessary for building infrastructure or if there are risks to water quality or human safety.

1.2.4 Work in cooperation with adjoining municipalities and other organizations with infrastructure on watershed lands to minimize risks to water quality.

1.2.5 Reduce the risk from microbiological or chemical contamination by restricting access to the source watersheds as specified in Metro Vancouver's Watershed Access Policy.

### Strategy 1.3 Identify and secure additional water supplies for the region

By making greater use of the storage capacity of Coquitlam reservoir our present sources of water offer a secure water supply that will meet our needs until about mid-century.

#### METRO VANCOUVER WILL:

1.3.1 Complete the Seymour-Capilano Filtration Project and initiate conceptual design of the new Coquitlam intake facility to access additional water supplies. 2013

1.3.2 Provide for additional capacity by securing full access to the Coquitlam source under the Coquitlam Water Use Plan and the current forecast predicts expanding storage capacity in Seymour and Capilano Watersheds by 2050. The schedule for storage expansion will be monitored and storage expanded as needed.

#### ACTIONS REQUESTED OF OTHER GOVERNMENTS AND AGENCIES (ON-GOING ACTION)

1.3.3 That senior governments, universities, and research agencies continue to assess the potential impacts of climate change on the need for additional water supplies or storage capacity and advise Metro Vancouver on the results of this research.

## Goal 2: Ensure the Sustainable Use of Water Resources

By ensuring the sustainable use of water resources, the region can continue to grow and prosper while sustaining our quality of life and our environment.

### Strategy 2.1 Use drinking water sustainably

Metro Vancouver and its municipalities are committed to pursuing demand management strategies where using water more sustainably will contribute to economic prosperity, community well-being and environmental integrity.

#### METRO VANCOUVER WILL: (ON-GOING ACTIONS)

2.1.1 Deliver education programs promoting behaviour change by means of:

- sustainability education resources;
- watershed field trips;
- sustainability initiatives at schools;
- information outreach programs promoting behaviour change and sustainable use of water.



2.1.2 Implement a region wide water conservation program targeting the industrial, commercial, institutional and agricultural sectors in partnership with municipalities. Program elements include water audits, informative resources and case studies.

2.1.3 Deliver the Tap Water Campaign to educate people about Metro Vancouver's high quality drinking water and to reduce the environmental impact of bottled water.

2.1.4 Set the wholesale water rates and water rate structure to reflect the cost of regional water supply, and achieve water conservation and other sustainability objectives.

2.1.5 Work with the business sector on water conservation and water reuse initiatives in partnership with municipalities.

2.1.6 Develop the Seymour Water Treatment and Watershed Academy to support innovative research and demonstration projects.

#### MUNICIPALITIES WILL:

2.1.7 Reassess the merits of developing residential water metering programs and municipal rebate programs for water efficient fixtures and appliances. 2015

#### ON-GOING ACTIONS

2.1.8 Develop, implement and enforce consistent bylaws to encourage water efficiency and implement Metro Vancouver's Water Shortage Response Plan.

2.1.9 Work with the business sector on water conservation and water reuse initiatives in partnership with Metro Vancouver.

2.1.10 Achieve a retail water rate structure that reflects the cost of regional water supply and, if practical, the regional seasonal price structure.

2.1.11 Deliver education programs promoting behaviour change and sustainable use of water.



## Strategy 2.2 Match water quality to usage requirements

Many of the purposes for which drinking water is currently used do not require use of water of potable quality.

### METRO VANCOUVER WILL:

2.2.1 Install facilities for water reclamation at wastewater treatment plants to provide reclaimed water for use within and outside wastewater plants where feasible. 2011-2016

### ON-GOING ACTION

2.2.2 Evaluate alternatives to potable water for specific purposes, including:

- rainwater harvesting for irrigation;
- greywater and reclaimed wastewater for residential, commercial, institutional, and agricultural use;
- groundwater for irrigation;
- river and sea water for waterfront businesses.

### MUNICIPALITIES WILL:

2.2.3 Update municipal bylaws, utility design standards and neighbourhood design guidelines to enable and encourage on-site rainwater management as appropriate, so that it can be used for non-potable purposes such as irrigation. 2014

### ACTIONS REQUESTED OF OTHER GOVERNMENTS, AGENCIES, AND ASSOCIATIONS: (ON-GOING ACTIONS)

2.2.4 Revise the provincial health regulations to allow specific residential and commercial uses of non-potable water (greywater and rainwater) after discussions with Metro Vancouver and municipalities.

2.2.5 Facilitate networking for re-use of process wastewater with business associations, institutions, and non-governmental organizations.



### Strategy 2.3 Manage and protect watersheds as natural assets

Managing and protecting watershed lands and their biological diversity as natural assets and as part of the region's conservation lands significantly advances regional sustainability

#### METRO VANCOUVER WILL: (ON-GOING ACTIONS)

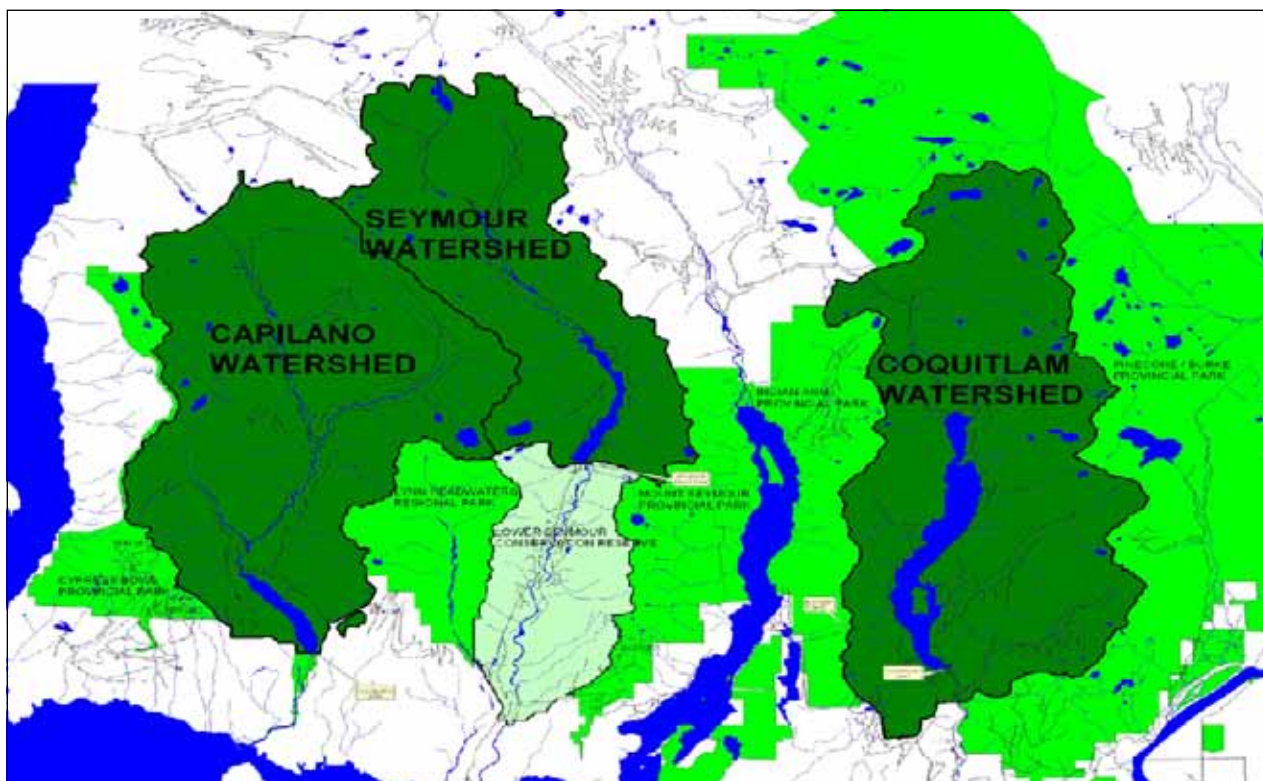
2.3.1 Manage watershed lands and their biological diversity to advance regional sustainability.

2.3.2 Manage the on-drainage watershed lands with a minimum intervention approach.

2.3.3 Protect and conserve fish populations while continuing to provide clean, safe drinking water.

2.3.4 Provide non-motorized recreational opportunities on off-drainage watersheds lands where appropriate.

2.3.5 Develop and implement a Joint Water Use Plan for the Seymour and Capilano Watersheds.



### Goal 3: Ensure the Efficient Supply of Water

Efficient supply of water optimizes capacity and defers the need for new infrastructure and new water supply sources. Equally important is renewing and replacing the region's aging water transmission and distribution systems in an affordable way.

#### Strategy 3.1 Manage infrastructure proactively

Managing infrastructure proactively will ensure cost-effective, reliable and sustainable water supply.

##### METRO VANCOUVER WILL: (ON-GOING ACTIONS)

3.1.1 Develop and implement an Asset Management Plan targeted at maintaining delivery of reliable and cost-effective drinking water services to the region over the next 100 years.

3.1.2 Renew and replace aging infrastructure to maintain required levels of service based on risk analyses (including seismic risk) and cost-benefit priorities.

3.1.3 Undertake cost-effective leak identification and repair programs targeting water transmission mains with high breakage rates or that are older than 50 years.

3.1.4 Implement, where feasible and appropriate, pressure reduction or pressure management programs (including pressure transients) to reduce leakage and potentially extend the life of the infrastructure.

3.1.5 Conduct hazard assessments specific to trespassing, excavations over pipes and pressure loss and implement emergency and security programs to reduce risks.

3.1.6 Upgrade the energy efficiency of the system by prioritizing gravity systems and where possible recovering surplus energy and upgrading pump and motor efficiencies.

3.1.7 Upon completion of a Joint Water Use Plan for the Capilano and Seymour Watersheds, assess the feasibility of developing hydropower at the Cleveland and Seymour Falls dams.

##### MUNICIPALITIES WILL: (ON-GOING ACTIONS)

3.1.8 Renew and replace aging infrastructure to maintain required levels of service based on risk analyses and cost-benefit priorities specific to the needs of each municipality.

3.1.9 Undertake cost-effective leak identification and repair programs targeting the municipal water system.

3.1.10 Implement, where feasible and appropriate, pressure reduction or pressure management programs (including pressure transients) to reduce leakage and potentially extend the life of the infrastructure.

## **Actions in the 2011 Drinking Water Management Plan for Member Municipalities and Tsawwassen First Nation**

In the 2011 Drinking Water Management Plan reference to municipalities means GVWD member municipalities and member treaty first nation, Tsawwassen First Nation.

### **Goal 1: Provide Clean, Safe Drinking Water**

#### **Municipalities will:**

- 1.1.9 Complete the reassessment of the secondary disinfection system within the municipal distribution network in coordination with Metro Vancouver after completion of the Seymour-Capilano Filtration Project. 2016

#### *On-going actions*

- 1.1.10 Monitor water quality in the municipal distribution systems and use this information to optimize water quality through operation of the municipal water system.
- 1.1.11 Preserve water quality in the distribution system through proactive maintenance programs that include water main flushing, cleaning of municipal reservoirs, and eliminating dead-ends where possible.
- 1.1.12 Implement, administer, and maintain backflow prevention and cross-connection control programs within the municipal distribution system to protect the public water system from hazards originating on customers' premises or from temporary connections.

### **Goal 2: Ensure the Sustainable Use of Water Resources**

#### **Municipalities will:**

- 2.1.7 Reassess the merits of developing residential water metering programs and municipal rebate programs for water efficient fixtures and appliances. 2015

#### *On-going actions*

- 2.1.8 Develop, implement and enforce consistent bylaws to encourage water efficiency and implement Metro Vancouver's Water Shortage Response Plan.
- 2.1.9 Work with the business sector on water conservation and water reuse initiatives in partnership with Metro Vancouver.
- 2.1.10 Achieve a retail water rate structure that reflects the cost of regional water supply and, if practical, the regional seasonal price structure.
- 2.1.11 Deliver education programs promoting behaviour change and sustainable use of water.

#### **Municipalities will:**

- 2.2.3 Update municipal bylaws, utility design standards and neighbourhood design guidelines to enable and encourage on-site rainwater management as appropriate, so that it can be used for non-potable purposes such as irrigation. 2014

### **Goal 3: Ensure the Efficient Supply of Water**

#### **Municipalities will:**

##### *On-going actions*

- 3.1.8 Renew and replace aging infrastructure to maintain required levels of service based on risk analyses and cost-benefit priorities specific to the needs of each municipality.
- 3.1.9 Undertake cost-effective leak identification and repair programs targeting the municipal water system.
- 3.1.10 Implement, where feasible and appropriate, pressure reduction or pressure management programs (including pressure transients) to reduce leakage and potentially extend the life of the infrastructure.

#### **Municipalities will:**

##### *On-going action*

- 3.2.5 Further enhance lawn sprinkling regulations to address both seasonal and peak day consumption issues in partnership with other municipalities and Metro Vancouver.

5225900





Reference: 127948

**MAY 3 0 2011**

Lois E. Jackson, Chair  
Metro Vancouver Board  
Metro Vancouver  
4330 Kingsway  
Burnaby BC V5H 4H9

Dear Chair Jackson:

Thank you for your letter of June 25, 2010, with the attached Liquid Waste Management Plan (LWMP), the Board resolutions for adopting the plan and a summary of the Metro Vancouver's consultation process. A summary of endorsements confirming each member municipality commitments was received on December 21, 2010.

Ministry staff have reviewed your submission and accompanying documents. The technical aspects of the proposed LWMP are supported, and I am satisfied there has been adequate public review and consultation. However, the LWMP as submitted does not fully meet my requirements. Therefore, I hereby impose the following changes to the submitted LWMP titled *Integrated Liquid Waste and Resource Management: A Liquid Waste Management Plan for the Greater Vancouver Sewerage & Drainage District and Member Municipalities (ILWRMP)* dated May 2010:

1. The Ministry supports upgrading to secondary level treatment the Lions Gate wastewater treatment plant by 2020 and Iona Island wastewater treatment plant as soon as possible, but no later than 2030 and not contingent on the availability of senior government funding. The Ministry of Environment is not a funding agency. While I understand the cost of the upgrades is significant, they are necessary to meet current environmental standards. The Ministry will support Metro Vancouver pursuing senior government and alternative funding options, but cannot guarantee any provincial commitment in that regard, nor compromise the Ministry's mandate to protect the environment.
2. Member municipalities are strongly encouraged to business case and/or implement residential water metering programs and to consider municipal rebate programs for water efficient fixtures and appliances to reduce potable water use.

...2

3. Metro Vancouver, in partnership with member municipalities, is encouraged to pursue a region-wide water conservation program targeting the industrial, commercial, institutional and agricultural sectors as part of its new Drinking Water Management Plan. Remaining municipalities in the region that have not implemented metering for these sectors are encouraged to do so.
4. Metro Vancouver must use receiving environment and effluent monitoring data from combined sewer overflow (CSO) and sanitary sewer overflow (SSO) in the regional system to interpret the overall status of CSOs and SSOs. Metro Vancouver will continue the fate and effects studies on CSOs with the Clarke Drive location and other significant sites as determined by the Environmental Management Committee. Metro Vancouver will establish similar studies representative of significant SSO locations, in particular the Cloverdale, Katsie and Lynn locations. The interpretation and assessment should demonstrate whether there has been any improvement or degradation along with any measures taken to address such discharges. Metro Vancouver will report out in the Quality Control Annual Report.
5. Metro Vancouver is encouraged to continue to build upon previous studies associated with studying endocrine-disrupting chemicals, persistent organic pollutants and other micro-contaminants found in wastewater by developing source control initiatives through education (for example, target outreach), regulation and inspection programs.
6. Metro Vancouver will continue the receiving and ambient monitoring programs specified in the approved 2002 LWMP, including, but not limited to, recreational water quality (beach monitoring); monitoring near the outfalls for all five wastewater treatment plants, including the extensive deep sea monitoring near the Iona Island plant; and CSO effluent quality and monitoring of small urban streams relating to impacts from urbanization and stormwater.
7. Member municipalities will, with MV planning and coordination, and to the satisfaction of the Regional Manager, develop a coordinated program to monitor stormwater and assess and report the implementation and effectiveness of Integrated Storm Water Management Plans (ISMP). The program will use a weight-of-evidence performance measurement approach and will report out in the Biennial Report. The Regional Manager may extend the deadline for completion of ISMP by municipalities from 2014 to 2016 if satisfied that the assessment program could result in improvement of ISMP and protect stream health.
8. Bypass conditions that occur at wastewater treatment plants will be reported out in the annual quality control report. The report on each activity will include a description of the event, cause, environmental effect and monitoring that occurred and any mitigation measures undertaken to prevent reoccurrence and remediate detrimental environment effect.

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9. The ILWRMP has a goal of protecting public health and the environment. In keeping with this goal and to ensure alignment with other national, provincial and regional initiatives, Metro Vancouver and member municipalities are encouraged to:
  - a. Have local land use planning consider the direction provided by the ISMPs;
  - b. Consider how the degree, type and location of land development within a drainage can affect the long-term health of the watershed;
  - c. Consider how to protect the stream, including the riparian areas that exert an influence on the stream, from long-term cumulative impacts; and
  - d. Use scenarios and forecasting to systematically consider environmental consequences/benefits of different land use approaches prior to build-out (for example, Alternative Future type approaches).
10. Metro Vancouver will continue to consult with First Nations during the implementation of the Plan—in particular, engaging, as appropriate, with First Nations likely to be impacted by the secondary upgrades.

Pursuant to Section 24(5) of the *Environmental Management Act*, I hereby approve Metro Vancouver's LWMP titled *Integrated Liquid Waste and Resource Management: A Liquid Waste Management Plan for the Greater Vancouver Sewerage & Drainage District and Member Municipalities* dated May 2010, subject to the conditions noted above.

I commend Metro Vancouver Board and staff on their success in developing a comprehensive master plan to manage the Greater Vancouver Sewerage & Drainage District's liquid waste for years to come.

Sincerely,



Terry Lake  
Minister of Environment

cc: Jim Standen, Assistant Deputy Minister, Environmental Protection Division  
Jonn Braman, Regional Manager South Coast, Environmental Protection Division

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GVWD Board Meeting Date: July 29, 2011

To: Board of Directors

From: Kelly Birks, Office Manager, Board Secretariat and Corporate Information  
Department

Date: July 20, 2011

Subject: **Delegations' Executive Summaries Presented at Committee – July 2011**

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*Recommendation:*

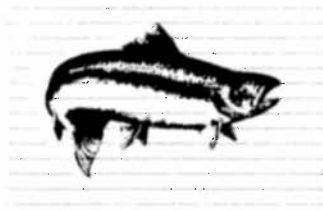
That the Board receive for information the report dated July 14, 2011 titled "Delegations' Executive Summaries Presented at Committee – July 2011".

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Attachment:

- a) Brian Smith, Seymour Salmonid Society

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# SEYMOUR SALMONID SOCIETY

P.O. Box 52221, North Vancouver, B.C. V7J 3V5

June 1, 2011

Jim Rusnak  
Manager Finance and Administration  
Metro Vancouver

Dear Mr. Rusnak

I am writing this letter on behalf of the Seymour Salmonid Society (SSS), an organization that greatly appreciates the legacy of partnership that exists between the SSS and metro vancouver.

To date, said partnership has enabled our Society to focus on effectively managing the fisheries resources of the Seymour River watershed. I would also suggest that Society accomplishments are progressive and recognized as useful tools in defining and developing fisheries management plans within watersheds throughout the Province of British Columbia. As it pertains to the sustainability of anadromous fish populations in a delicate, more regulated urban environment I would identify the Seymour Salmonid Society, as a functioning corner stone of metro vancouver's very own water use ideology.

Since 1996, our collaborative effort within the Seymour Valley has created over 40,000 M<sup>2</sup> of salmonid overwintering and spawning habitat. In addition, the in- river improvements to steelhead habitat includes the construction of 20 log structures and the placement of 40 boulder clusters. In short, metro vancouver via its financial benevolence, in-kind contributions and corporate philosophy has proven itself as a forward thinking leader in the field of watershed restoration.

Over the last several years, the Society has engaged in a significant amount of scientific research. Monitoring programs have included adult steelhead telemetry research and participation in the Pacific Ocean Shelf Tagging (POST) studies. The data collected has proven invaluable. In August of 2010 and March of 2011 articles appearing in the Public Library of Science (PloS), a publication of peer reviewed research, outline findings relating to both the Coho and Steelhead of Seymour River Watershed. In association metro vancouver and the Seymour Salmon Society have contributed to the comprehensive database used to define the characteristics of specific populations of salmonids.

The Seymour Salmonid Society considers itself a thread in the fabric we call the North Shore. In addition to fish culture, habitat restoration and watershed management the Society takes great pride in delivering an Educational Program we fondly call "Gently Down the Seymour." This

program has been run in each of the last 15 years, it is extremely popular and appreciates an annually attendance of approximately 1,500 pupils. In the absence of our great partnership, there is little doubt that the educational accomplishments of the SSS would never have been realized. In the absence of corporate sponsorship, greater than 20,000 children would less understand the relationship between habitat protection and fisheries sustainability.

By way of its wonderfully interactive relationship with the public, the Society strives to outline how responsible hatchery initiatives develop vigorous anadromous fish populations. Further to this subject, the SSS is proof positive that successes in watershed fisheries sustainability can be achieved in conjunction with the effective management of drinking water storage and supply.

What we have accomplished as a team is nothing short of spectacular; our initiatives are common, our commitments honourable and our identities connected. The Seymour Salmon Society is passionate that our legacy of partnership moves forward. That said, in recent years the SSS finds it significantly more difficult to attain its goals within the parameters of a budget that has been monetarily stagnant for the past 15 years. With all facets of our operation, appreciating an escalation in cost the challenges of accomplishing more with less is nearing a point of unfeasibility. Without a meaningful increase in funds, Society programs are at risk. As it stands now we are very concerned that in the absence of a monetary injection, the benefits derived from our education program could be compromised, furthermore, our ability to cope with increasing costs could threaten the very core of our hatchery program.

Acknowledging that our arrangement with Metro Vancouver is contingent on the matching of funds provided by the Fisheries and Oceans Canada, we would appreciate the opportunity to make a presentation to Metro Vancouver's Water Committee either in July or in early September. We are hoping that Metro Vancouver will consider our request for additional funding starting in 2012.

Jim, I would happily meet with you at your convenience to discuss our needs further, a get-together could take place at your office or at the hatchery site. At that time, I will be able too better provide you with a more in-depth explanation of the challenges ahead. At this same time, I would ask you for direction as to the best course in terms of making our presentation.

Thank you for your time and consideration

Sincerely,

Dave Steele

President, Seymour Salmonid Society