



# Stormwater Management in the Metro Vancouver Region

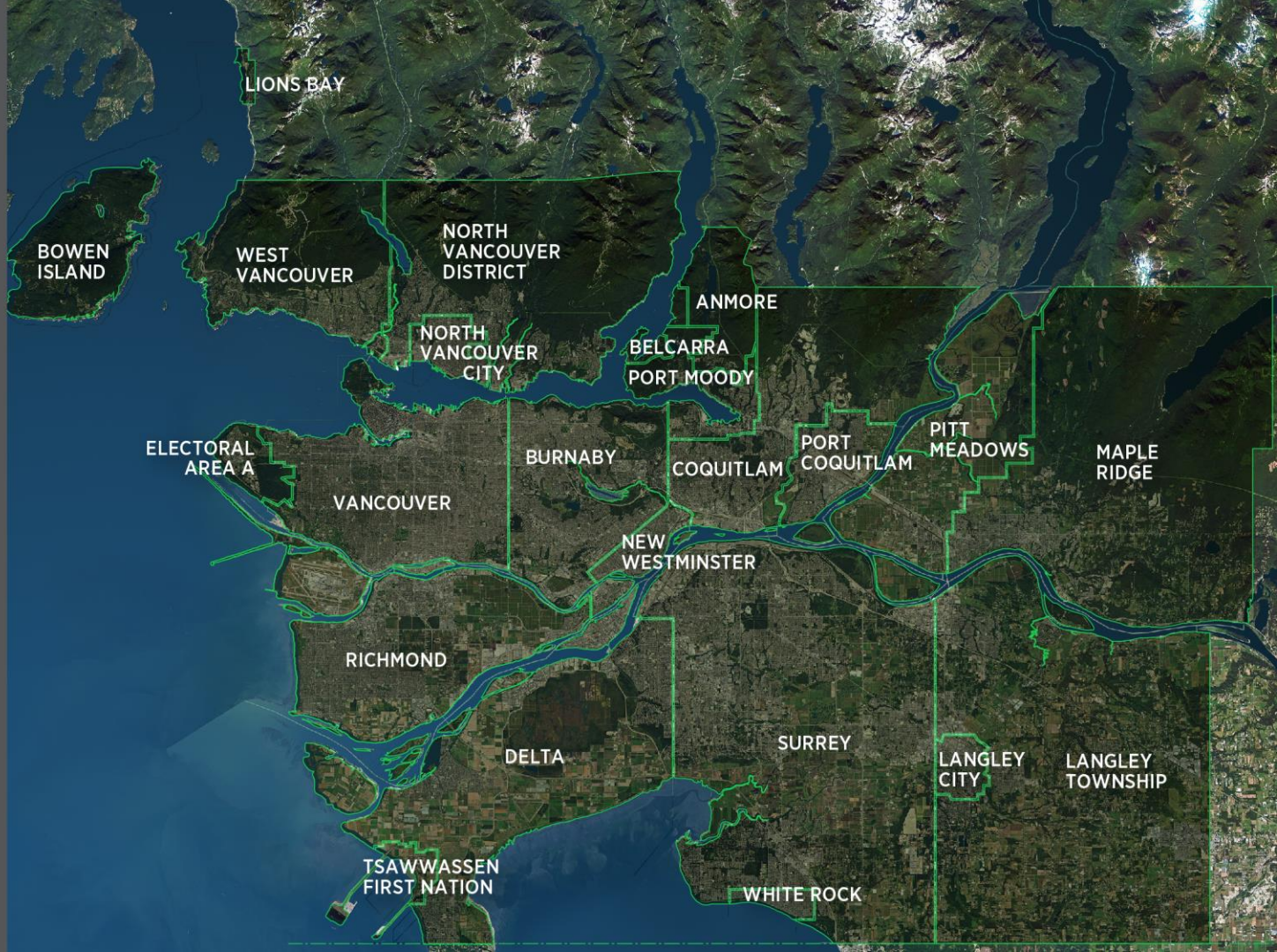
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SERVICES

EMA of BC, April 20, 2017

# Metro Vancouver

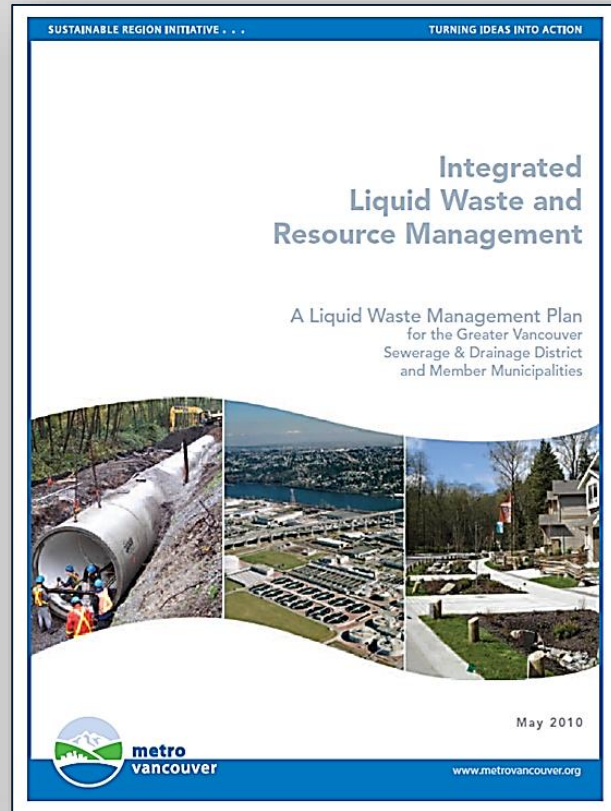
21 municipalities,  
one Treaty First Nation and one  
Electoral Area



# Regional Management Plans



# Liquid Waste Management



# Stormwater Management in the Region



- Regulator: BC MOE
- Stormwater management: municipal responsibility, through development and implementation of Integrated Stormwater Management Plans (ISMPs)
- Metro Vancouver's role: facilitation of research on watershed-based stormwater management approaches and development of common policies

# Inter - Governmental Committees

- Stormwater Interagency Liaison Group (SILG)
- Environmental Monitoring Committee (EMC)

# Stormwater Interagency Liaison Group (SILG)

- Provides technical advice on:
  - Integrated stormwater and urban runoff management, watershed, catchment, and master drainage planning
  - Development of standards and best management practices
  - Integration of stormwater plans into municipal planning processes and growth strategies
  - Ways to improve efficiencies and effectiveness of regulatory approvals, policies and bylaws
- Interfaces with the EMC

# Stormwater Quality

- No stormwater criteria in BC
- Regulatory emphasis – protection of watershed health
- Primary areas of concern:
  - Stormwater impacts to riparian vegetation
  - Watershed hydrology
  - Erosion
  - Sediment transport
  - Water quality



# ISMPs

- Watershed scale
- Include urban and semi-urban watersheds
- Balance:
  - Community needs
  - Watershed health: hydrologic and ecologic conditions and needs
  - Land use
- Identify specific strategies, targets or requirements
- Take several decades to implement

# Tools for Stormwater Management

- Provincial Stormwater Planning Guidebook for Local Governments
- Regional Template for Integrated Stormwater Management Planning
- Regional Stormwater Source Control Design Guidelines
- Regional Monitoring and Adaptive Management Framework for Stormwater
- Regional Guidelines for On-site Rainwater Management
- Water Balance Model and Water Balance Express

# Professional Groups Involved in Stormwater Management in BC

- BC Water and Wastewater Association
- Canadian Water Resources Association – BC Branch
- Partnership for Water Sustainability in BC

# Regional Reporting on Stormwater Quality

## Wastewater

The Greater Vancouver Sewerage and Drainage District  
Environmental Management and Quality Control  
Annual Report 2015



February 2016

## Interim Report: 2015

### Integrated Liquid Waste and Resource Management

A Liquid Waste Management Plan for the Greater Vancouver  
Sewerage & Drainage District and Member Municipalities

Status of SSOs and ISMPs



June 2015

## Biennial Report: 2013-2014

Integrated Liquid Waste and Resource Management

A Liquid Waste Management Plan for the Greater Vancouver  
Sewerage & Drainage District and Member Municipalities

Summary Report



# Regional Collaboration: Monitoring and Adaptive Management Framework

- Minister's condition:
  - Member municipalities, with the planning and coordination of Metro Vancouver, will develop a coordinated program to monitor stormwater and assess and report the implementation and effectiveness of ISMPs
  - The program will use a weight-of evidence performance measurement approach and will report out in the Biennial Report
  - If the MOE is satisfied that this assessment program could result in improvement of ISMPs and protect stream health, the deadline for municipal completion of these plans by municipalities may be extended from 2014 to 2016

# Common Goal

- Development of a useful and flexible document that will enable municipalities to efficiently and cost-effectively manage their planning and development initiatives, while protecting and improving the environmental health of their streams and watersheds

# The Process

- Formation of a Technical Working Group
- Development of a conceptual approach
- Development of draft Technical, Guidance and Reporting documents
- Retention of consultants to review / improve the draft documents and fill information gaps
- Solicitation of input from SILG and EMC
- Solicitation of input from consulting engineers, scientists, planners and broader municipal staff
- Implementation of suggested revisions and further refinement
- Endorsement by all municipalities and MV political committees
- MOE approval

# Challenges

- Technical
- Resource availability
- Countering needs for consistency and flexibility
- Regulatory pressure
- Limited time
- Varying interests
- Political sensitivity



# Opportunities

- Inter and intra-regional collaboration and engagement between various levels of government
- Knowledge sharing and application of best practices
- Consistent approach to linking community planning with protection of watershed health
- Effective tool:
  - Addressing non-point sources of contamination
  - Managing limited resources
- Partnering possibilities

# The work is done....

... or, is it just about to begin?



Thank You



**metrovancouver**  
SERVICES AND SOLUTIONS FOR A LIVABLE REGION