Separate Sanitary Sewer Systems

Policies

P8. **Infrastructure Management**
The District and its member municipalities will establish sewer system infrastructure management programs that will maintain the regional trunks and interceptors, the municipal collection system, and the private service laterals in a state of good repair. The objective will be to ensure the sustainability of the collection system so that expensive repair and rehabilitation is not deferred to future generations and that the average daily infiltration and inflow will not exceed 11,200 litres per hectare per day as a result of a storm with less than a five year return period.

P9. **Basic Sanitary Sewer Service Capacity**
The District will establish a basic level of service capacity for all District sanitary sewers that provides for the conveyance of measured dry weather flows plus a wet weather allowance for infiltration and inflow of 11,200 litres per hectare per day, such that the hydraulic grade lines do not exceed established safe operating levels.

P10. **Sanitary Sewer Overflow Documentation And Targets**
The District will document all sanitary sewer overflows from the collection system under its jurisdictions and determine the cause of overflow. The District and its member municipalities will establish targets for sanitary sewer overflow reduction as part of their sewer system infrastructure management programs to target reduction and long term elimination of wet weather sanitary sewer overflows caused by storms of less than a five year return period. Areas experiencing high growth and chronic sanitary sewer overflows with associated health or environmental risks will receive the highest priority for elimination of sanitary sewer overflows.

P11. **Sanitary Sewer and Combined Sewer Interaction**
In parts of the collection system where both sanitary and combined sewer overflows are occurring due to the interaction of these sewer systems, and operational improvements are being considered to minimize overflows, the objective will be to minimize the total volume of sanitary sewage (contained in combined and sanitary sewer overflows as a component together with stormwater) that is discharging to the receiving waterways.

P12. **Consideration of Consequence**
When addressing sanitary sewer overflow issues, the District and its member municipalities will prioritize efforts and consider emergency spill locations to mitigate the consequence of overflows in the following priority:

1. Discharges that compromise public health;

2. Discharges that compromise public and private property damage; and

3. Discharges that have confirmed near-field environmental impacts.

P13. **Emergency Overflow Locations For Unavoidable Sanitary Sewer Overflows**
The District and its member municipalities will maintain a system of emergency overflow locations and prepare emergency spill contingency plans to minimize the consequence of unavoidable sanitary sewer overflows caused by extreme wet weather, system failures, and unusual events.

Commitments

C19. **Infrastructure Management**
The District and its member municipalities will establish ongoing sanitary sewer system evaluation programs to determine the condition of the regional trunk sewerage system, the municipal sewerage system, and private property service laterals. As required, legislative and legal authority will be sought to address infiltration and inflow originating from private property service laterals. These evaluation programs will be ongoing and determine the condition of the entire sewer system over a 20 year time cycle. The District and its member municipalities will develop and apply a consistent approach to sewer system evaluation surveys.

Repair and replacement programs will be established based on targets set for sanitary sewer overflow reduction and the severity of infiltration and inflow relative to the design allowance of 11,200 litres per hectare per day.

C20. **New Construction Objectives**
The District and its member municipalities will review engineering standards and guidelines for new sewer construction with the objective of ensuring a high standard for new construction to

minimize future infiltration and inflow problems.

C21. Wet Weather Facilities

The District will complete the conceptual designs and feasibility studies for the following wet weather facilities to reduce chronic sanitary sewer overflows:

Cloverdale storage and operational improvements; and
Maillardville sanitary sewer increased conveyance (growth pre-build).

C22. Flow Monitoring

The District will maintain a network of flow monitors that will continually monitor sewer flows and will determine the daily average flow by specific catchments, or by municipality where the flow monitoring configuration is appropriate.

C23. Biennial Liquid Waste Management Plan Progress Report

Every two years, municipalities will summarize and forward to the District for inclusion in a biennial Liquid Waste Management Plan progress report, the following information:

- Sewer system mapping that indicates the overall extent of the current cycle of the sanitary sewer system evaluation program and the condition of sewerage infrastructure.
- The extent of new sewer construction and sewer repair and replacement work over the past two years.
- A summary of the results of all flow monitoring work undertaken as part of the sewer system evaluation program.
- The location and frequency of sanitary sewer overflows occurring from the municipal collection system.
- A summary of sewerage system expenditures for sewer system evaluation work, and repair and replacement work.

The biennial reporting period will end on December 31st of every second calendar year and the report will be due by the end of March (90 days to compile). The first reporting period will end in the second whole year (not less than 24 months and not more than 36 months) following the year a LWMP is approved. An interim annual report will be submitted in March and will summarize the key achievements that occurred in the previous year.

Implementation Schedule – Separate Sanitary Sewer Systems

Commitments / Initiatives	Budget	Year Completed
C19 – Infrastructure Management		
Sewer System Evaluation Programs		
GVRD	$617,000 / year (2001 budget)	ongoing
City of Burnaby	$300,000 / year (2001 budget)	ongoing
City of Coquitlam	$36,000 / year (2001 budget	ongoing
City of Langley	$75,000 / year (2001 budget)	ongoing
City of New Westminster	Included in Commitment C15	ongoing
City of North Vancouver	$14,000 / year (2001 budget)	ongoing
City of Port Coquitlam	$100,000 / year (2001 budget)	ongoing
City of Port Moody	$60,000 / year (2001 budget)	ongoing
City of Richmond	$350,000 / year (2001 budget)	ongoing
City of Surrey	$300,000 / year (2001 budget)	ongoing
City of Vancouver	$200,000 / year (2001 budget)	ongoing

City of White Rock	$100,000 year (2001 budget)	ongoing
Corporation of Delta	$170,000 / year (2001 budget)	ongoing
District of Langley	$26,000 / year (2001 budget)	ongoing
District of Maple Ridge	$40,000 / year (2001 budget)	ongoing
District of North Vancouver	$100,000 / year (2001 budget)	ongoing
District of Pitt Meadows	$10,000 year (2001 budget)	ongoing
District of West Vancouver	$25,000 / year (2001 budget)	ongoing
Electoral Area A (University Endowment Lands)	Included in annual budget	ongoing
Sewer Repair and Replacement Programs		
GVRD	$500,000 / year (2001 O&M budget) $5,090,000 (2001 capital budget)	ongoing
City of Burnaby	$1,000,000 / year (2001 budget)	ongoing
City of Coquitlam	$340,000 / year (2001 budget)	ongoing
City of Langley	$184,000 (2001 O&M budget) $50,000 (2001 capital budget)	ongoing
City of New Westminster	Included in Commitment C15	ongoing

City of North Vancouver	$610,000 / year (2001 budget)	ongoing
City of Port Coquitlam	$734,000 / year (2001 budget)	ongoing
City of Port Moody	$168,000 / year (2001 budget)	ongoing
City of Richmond	$2,300,000 / year (2001 budget)	ongoing
City of Surrey	$1,500,000 / year (2001 budget)	ongoing
City of Vancouver	Included in Commitment C15	ongoing
City of White Rock	$400,000 / year (2001 budget)	ongoing
Corporation of Delta	$900,000 / year (2001 budget)	ongoing
District of Langley	$86,000 / year (2001 budget)	ongoing
District of Maple Ridge	$550,000 / year (2001 budget)	ongoing
District of North Vancouver	$198,000 / year (2001 budget)	ongoing
District of Pitt Meadows	$100,000 / year (2001 budget)	ongoing
District of West Vancouver	$200,000 / year (2001 budget)	ongoing
Electoral Area A (University Endowment Lands)	Included in annual budget	ongoing
C20 – New Construction Objectives		
Review of Engineering Standards and Guidelines	Included in annual budget	2002

C21 – Wet Weather Facilities		
Cloverdale Storage	$4,500,000	2003
C22 - Flow Monitoring		
Operation and Maintenance of Existing Flow Monitoring Network	$636,000 / year (2001 budget)	ongoing
C23 – Biennial Liquid Waste Management Plan Progress Report		
First Interim Annual Report	Included in annual budget	2002
First Biennial Report	Included in annual budget	2003