

CITY OF BURNABY

ENVIRONMENT AND WASTE MANAGEMENT COMMITTEE

HIS WORSHIP, THE MAYOR
AND COUNCILLORS

RE: GVRD'S Liquid Waste Management Plan Stage 2 -
Policies and Commitments

RECOMMENDATIONS:

1. **THAT** Council endorse the draft LWMP report entitled "Liquid Waste Management Plan Stage 2 Policies and Commitments" dated 1999 August 30.
2. **THAT** a copy of this report be sent to the GVRD.

REPORT

The Environment and Waste Management Committee, at its meeting held on 1999 September 14, received and adopted the *attached* report requesting endorsement of the Draft Liquid Waste Management Plan. The Committee advised that most of the policies and commitments contained in the report pertain to the GVRD. However, there are policies and commitments such as combined sewers separation, management of sanitary sewer systems and stormwater management that apply specifically to municipalities, including Burnaby. The Committee further advised that the estimated financial implications for Burnaby for the implementation of the plan components would be approximately \$3.0 m/year. The additional expenditure would allow the City to accelerate the combined sewers separation and sewers management programs through structural rehabilitation and upgrading work.

Respectfully submitted,

Councillor D. Johnston
Chair

Councillor C. Redman
Member

Councillor D. Lawson
Member

COPY - CITY MANAGER
- DIRECTOR FINANCE
- DIRECTOR PLANNING & BUILDING
- DIRECTOR PARKS, REC. & CULT. SERV.
- DIRECTOR ENGINEERING

TO: CHAIRPERSON & MEMBERS
ENVIRONMENT & WASTE
MANAGEMENT COMMITTEE

DATE: 1999 09 09

FROM: DIRECTOR ENGINEERING

FILE: 41-02-01

SUBJECT: GVRD'S LIQUID WASTE MANAGEMENT PLAN STAGE 2 -
POLICIES AND COMMITMENTS

PURPOSE: To Seek Council Endorsement of the Draft Liquid Waste Management Plan Proposed
Policies and Commitments

RECOMMENDATION:

1. THAT the Committee recommend to Council that:
 - a. the draft LWMP report entitled "Liquid Waste Management Plan Stage 2 Policies and Commitments" dated 1999 August 30 be endorsed;
 - b. the GVRD be sent a copy of this report.

SUMMARY

The GVRD, in consultation with its member municipalities has prepared a draft Liquid Waste Management Plan Stage 2 Policies and Commitments report. The GVRD is seeking endorsement of the draft plan in order to submit the plan to the Board and the Province for approval before the end of the year.

Most of the policies and commitments contained in the report pertain to the GVRD. However, there are policies and commitments such as combined sewers separation, management of sanitary sewer systems and stormwater management that apply specifically to municipalities, including Burnaby. With Council endorsement of the draft plan, the estimated financial implications for Burnaby for the implementation of the plan components would be approximately \$3.0M/year. The additional expenditure would allow the City to accelerate the combined sewers separation and sewers management programs through structural rehabilitation and upgrading work. The draft LWMP is the first step for the GVRD and its member municipalities to develop the best liquid waste management options for the protection of the environment with full consideration to economics, public safety and social issues.

1. BACKGROUND

The GVRD and its member municipalities have been working on developing a Liquid Waste Management Plan (LWMP) for the region to address liquid waste issues such as wastewater treatment, combined sewer overflows and sanitary sewer overflows. Municipal staff have been involved in the plan development process and provided significant input to the assessment work required. More specifically, Burnaby staff have been extensively involved in the Brunette Basin Watershed Planning process and the Vancouver and Fraser Sewerage Areas Technical Committees each of which was an integral component to the preparation of the LWMP.

Arising from the LWMP planning work, preferred solutions to address liquid waste issues have been identified and are summarized in the draft document "LWMP - Stage 2 Policies and Commitments". Public input received from LWMP workshops held earlier in May and June of this year on the discussion document "Caring for Our Waterways" has also been included in the draft Stage 2 report.

II. LWMP PLANNING PROCESS

With the completion of the draft Stage 2 report, the GVRD is seeking endorsement of the document by member municipalities and in particular the policies and commitments specific to municipalities. The GVRD is planning to finalize the document based on municipal input received and to seek GVRD Board approval in 1999 November for submission to the Province. The three key steps for finalizing the LWMP Stage 2 document are:

- Municipal Councils' endorsement of the draft plan by 1999 October 12.
- GVRD Board approval of the final plan on 1999 November 10
- Submission of the approved plan to the Minister of Environment, Lands and Parks in 1999 December.

The purpose of this staff report is to seek Council endorsement of the draft Stage 2 report. A Stage 3 LWMP process to finalize plan details and implementation strategies will commence after Provincial approval of the Stage 2 report is obtained.

III. KEY POLICIES AND COMMITMENTS SPECIFIC TO GVRD MEMBER MUNICIPALITIES

The draft Stage 2 report summarizes the preferred approach to liquid waste issues in the form of policy and commitment statements. Most of the policies and commitments pertain to the GVRD. However, there are a few policies and commitments that apply specifically to municipalities and they are highlighted as follows:

1. *Management of Combined Sewer System*

Reference policies and commitments:

P6, Page 27

C14, C15, C16, C17, Page 28-29

Staff Comments:

The referenced policies and commitments would apply to the replacement of existing combined sewers with separate sanitary and storm sewers through infrastructure replacement and capacity upgrading programs. Under the proposed policy, the replacement of combined sewer service connections would take place when a property is redeveloped or when substantive building/site renovations are undertaken.

The northwest (Gilmore/Willingdon and Westridge) and southeast (10th Avenue/6th Street) parts of Burnaby are served by combined sewers presently. While comprehensive sewer separation studies have been initiated to develop overall strategies and schedule to eliminate combined sewers in those areas, aging and failing combined sewers are currently being replaced with separated sewers as part of the annual sanitary sewer rehabilitation program.

The adoption of the sewer separation policy and commitments is in accord with the goal of the City to eliminate combined sewer overflows in the Westridge and Gilmore/Willingdon area by 2050 and in the 10th Avenue/6th Street area by 2075.

2. *Management of Separate Sanitary Sewer Systems*

Reference policies and commitments:

P8, P10, P12, P13, Page 31-32

C18, C19, C22, Page 32-33

Staff Comments:

The referenced policies and commitments are intended to ensure the regional and municipal sanitary sewer infrastructure will be maintained in a state of good repair to avoid expensive rehabilitation that may be required otherwise at a future date.

Staff are in support of the proposed policies so that all member municipalities and the Regional District share a common goal of sustainable sewer infrastructure. Burnaby has an effective program that applies to sewer system asset management, infiltration/inflow reduction control and emergency overflows management. Capital projects have been undertaken to replace aging leaking sewers, to carry out structural repairs to extend system cycle life and to conduct video inspection of the collection system in order to develop effective replacement strategies.

While the management of separate sanitary sewer systems is important, the elimination of combined sewers would provide greater return on investment with respect to infiltration and inflow reduction and system capacity upgrade.

3. *Management of Municipal Stormwater*
Reference policies and commitments.
P24, P25, Page 42
C35, C36, C37, C38, Page 43

Staff Comments:

The proposed policies provide the framework for an integrated planning approach to municipal stormwater management that will link to other relevant municipal planning processes such as Official Community Plan, Parks Plan, Transportation Plan, etc., in order to address the impacts of stormwater management on community values.

Council has previously adopted the principles of an integrated approach to stormwater management that subsequently led to the development of stormwater management plans for the Stoney Creek, Hollis Creek and Byrne Creek watersheds. In addition, the current work on the Brunette Basin Watershed Management Plan will lead to the formulation of a watershed model for urban runoff issues that can be applied to the remaining watersheds in Burnaby and beyond Burnaby.

4. *Management of Non-point Source*
Reference policies and commitments:
P27, P28, P29, P30, Page 45 - 47
C40, C41, C42, C48, Page 44-48

Staff comments:

Non-point source discharge is one of the main sources of pollution in the receiving environment. Under the LWMP, three key non-point source issues have been identified as requiring management attention in the region and they are:

- pleasure craft sewage
- on-site sewage disposal systems
- agricultural runoff

On-site sewage disposal systems such as septic tanks are still in use in limited areas in Burnaby. Sewer extension program, where economically feasible, has been implemented to replace the private systems ultimately. From a pollution control perspective, it is important to properly manage or eliminate inappropriate discharges from on-site facilities to the receiving environment.

With respect to agricultural runoff, as part of the City's integrated stormwater management approach, water quality objectives for streams and waterway will be developed for the Big Bend agricultural areas.

IV. MUNICIPAL FINANCIAL IMPLICATIONS OF POLICIES AND COMMITMENTS

The proposed policies and commitments would have financial implications to the GVRD and its member municipalities. With the addition of new programs identified under the LWMP, the GVRD's expenditure is forecast to increase from \$120M in 1999 to approximately \$160M/170M by 2008, or \$200/household in 1999 to \$232/household by 2008.

In addition to GVRD expenditures, the LWMP commitments have financial implication to Burnaby through City required initiatives. The proposed policies and commitments would accelerate the City's sewer separation and management programs and require additional expenditure in order to meet the plan's goal.

The estimated financial implications for Burnaby based on the aforementioned policies and commitments are projected as follows:

- Combined Sewers Management Program \$1.5M/yr
- Sanitary Sewers Management Program \$1.0M/yr
- Stormwater Management Program \$0.5M/yr

The total financial impact would be approximately \$3.0M per year which is over and above the current programs. The estimated budget implications are not expected to occur until 2001. Details for the additional programs will be developed by staff in the coming year. The overall strategy, schedule and the detailed budget implications will be presented to Council for consideration and approval as part of the budget discussion process.

V. CONCLUSION

Staff have been involved in the review of the LWMP draft report and the earlier workshops held in May and June. The comments provided by staff previously have been incorporated into the draft report.

It is recognized that the endorsement of the proposed policies and commitments would lead to an expanded sewer infrastructure replacement and upgrading program in the future. The preferred approach of eliminating combined sewer overflows, addressing sewer infiltration and managing storm runoff would contribute to maintaining a sustainable environment in the region.

The projected population growth for the region would create a strong demand on effective liquid waste management. The Region's LWMP would provide the direction and approach for all municipalities and the GVRD in developing the best options to ensure the streams and receiving environments are protected in full consideration of the environment, social aspects, economics and public safety. Therefore, it is recommended that the draft LWMP report entitled "Liquid Waste Management Plan Stage 2 Policies and Commitments" dated 1999 August 30 be endorsed.


DIRECTOR ENGINEERING

LSC:jh

cc: City Manager
Director Finance
Director Planning & Building
Director Parks, Recreation & Cultural Services

