

ITEM 13  
MANAGER'S REPORT NO. 77  
COUNCIL MEETING 85/12/09

RE: LETTER FROM MR. G.R. MARK WHICH APPEARED ON THE AGENDA  
FOR THE 1985 NOVEMBER 25 MEETING OF COUNCIL (Item 4 f)  
STRIDE AVENUE DISPOSAL AREA

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Engineering be adopted.

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TO: MUNICIPAL MANAGER 1985 11 21  
FROM: DIRECTOR ENGINEERING  
SUBJECT: STRIDE AVENUE DISPOSAL AREA

RECOMMENDATIONS:

1. THAT G.R. Mark, 1802 - 615 Belmont Street, New Westminster, B.C., V3M 6A1, receive a copy of this report.
2. THAT Greater Vancouver Regional District receive a copy of this report.

SUMMARY:

This report contains information not only on the matter of burning at Stride Avenue raised by G.R. Mark but also on the current status of the enclosed methane-gas-enhanced burner now in final stages of testing.

REPORT:

Appearing on the Council Agenda for the Council Meeting of 1985 November 25 was a letter from G.R. Mark, 1802 - 615 Belmont Street, New Westminster, concerning burning at the Stride Avenue Disposal Area.

Inherent in the development of any good waste management plan is the goal of diverting as much volume as possible of solid waste materials away from the normal solid waste stream which, in the case of the Greater Vancouver Regional District, would normally go to landfill(s) and/or incinerator(s). The diversion of waste is achieved through utilization of suitable alternative technology, sometimes brought about by the development of innovative means. Waste recovery and recycling systems constitute one such form of alternative technology; waste volume reduction through burning of certain select items from the waste stream such as garden and landscape waste constitutes another form of available technology.

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As Council is aware, staff have been engaged in carrying out a pilot project aimed at achieving an acceptable form of burning through use of an enclosed burner with the fire fueled not only by infused air but also by methane gas recovered from the former Stride Avenue Landfill which was used for many years as a general landfill for all types of refuse, including much putrescible matter. From the operations to date, the conclusions are that the system shows promise of providing a permanent and ongoing practical method of removing a large amount of non-putrescible material from the solid waste stream. The landfill gas collection system, air supply stream and burner all operate well. Very high temperature combustion was attained and smoke emissions are minimal, although with certain minor modifications, these can be improved.

The primary modifications required are as follows:

- (1) Improve a system which will capture or otherwise eliminate the expulsion of fly-ash. Burning fly-ash has been found as the major problem encountered.
- (2) Improve the smoke emission problem by an additional air supply opposite to the burner.
- (3) Improve a system which will allow for loading from either side or some system to protect the loader operator from heat and fly-ash emissions which occur during unfavourable wind directions.
- (4) Devise a better system of ash removal. The present arrangement only allows for about seven (7) hours of burning before the ashes must be removed. This entails curtailment of operations until the burner cools and allows for physical ash removal.

It is anticipated that the completion of the testing described in the foregoing paragraph will take place over the next two (2) months or so, to be followed by a further report to Council summarizing the total test results on the burner. In the meantime, some open burning must take place in order to reduce the volume of waste because otherwise the Disposal Area would be full in virtually no time and there would then be no alternative but to permanently close the Area. Only two planned burnings take place annually, always with the involvement of the Fire Department and G.V.R.D. Air Quality personnel; the timing of burnings is carefully chosen to minimize the creation of a possible nuisance. The last controlled and supervised burning was conducted during the week commencing 1985 November 12.

EEO:cf

cc: ( ) Fire Chief  
( ) Medical Health Officer

  
DIRECTOR ENGINEERING