

ITEM 8  
MANAGER'S REPORT NO. 4  
COUNCIL MEETING 1984 01 16

RE: SUB-CONSTRUCTION OF THE RIVERWAY SPORTS CENTRE FIELDS

MUNICIPAL MANAGER'S RECOMMENDATION:

1. THAT the recommendation of the Director Recreation & Cultural Services be adopted.

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1984 January 11.

TO: MUNICIPAL MANAGER  
FROM: DIRECTOR RECREATION AND CULTURAL SERVICES  
RE: SUB-CONSTRUCTION OF THE RIVERWAY SPORTS CENTRE FIELDS

RECOMMENDATION:

1. THAT Council receive this report for information purposes.

REPORT

This is in response to an inquiry raised at the Council meeting of 1984 January 09 regarding the difference between the sub-construction of the first field at Riverway (now in play) and the second field which is presently under construction.

Council's concern was that if clay is used in the current construction, it will impede future drainage.

CONSTRUCTION OF THE FIRST FIELD

The park area is low and basically consists of peat. It is therefore necessary to fill the site in order to gain the necessary elevation and drainage to grow good grass. Free fill is normally used.

In 1974, 1975 and 1976 when the base for first field was being prepared, it was normal practise to use hog fuel as the filling medium. It was available free of charge and its use was not restricted. A three foot deep base of hog fuel was therefore installed, topped by twelve inches of sand with a small amount of saw dust. Irrigation pipes were laid between the hog fuel and the sand but no drain lines were necessary. Most of the water percolates through the sand and the hog fuel easily.

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CURRENT CONSTRUCTION

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Eight years later in 1983/1984, free hog fuel is no longer available. More importantly, the Federal and Provincial environmental and fisheries agencies have placed very rigid restrictions on the use of hog fuel for such purposes because of its adverse impact on fish populations.

Therefore, on 1983 January 19, the Parks and Recreation Commission approved the use of granular soil fill directly over the existing peat ground. In discussions with the Director Engineering, he had warned that the only adverse impact would be residual settlements continuing to take place for a longer time period than would have been the case with hog fuel. This is not a serious problem in the construction and maintenance of playing fields.

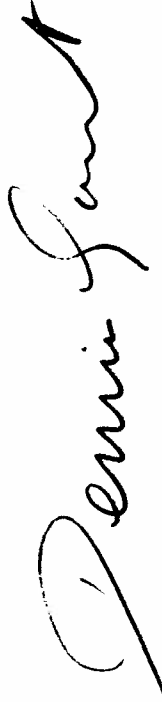
The granular fill is being pre-selected from the A.L.R.T. construction sites and delivered and spread free of charge. The site is monitored daily and for the most part to the best of our knowledge, only acceptable granular fill has been delivered.

The amount of clay materials that might be evading the pre-selection and monitoring process is small enough that it will not have an adverse effect on the drainage capabilities of the 50,000 cu. yards of granular fill which the site requires.

Once the fill has settled, it will be graded to allow some sub-surface runoff and will then be topped with twelve inches of sand, if the Commission decides to proceed with a sand/saw dust/grass field. Again, irrigation lines will be added and drain lines omitted.

It is anticipated that the drainage capabilities of sand on top of granular fill will be equal to the drainage capabilities of sand on hog fuel.

Staff will ensure that the monitoring process is intensive enough to minimize the delivery of any clay mixture to the site.



DENNIS GAUNT  
DIRECTOR REC. & CULTURAL SERVICES

C.C.  
Director Engineering

DG:hh