

Report to Council



Date: January 11, 2016
File: 1845-90
To: City Manager
From: Andrew Reeder, Utility Planning Manager
Subject: Landfill Sanitary Lift Station - Partnership to Construct Leachate Treatment

Recommendation:

THAT Council receives, for information, the report from the Utilities Planning Manager dated January 11, 2016 regarding the landfill sanitary lift station-partnership to construct leachate treatment;

AND THAT Council authorizes the expenditure of \$330,000 (\$130,000 new funds plus \$200,000 authorized in 2015 for leachate treatment) plus applicable GST from the Glenmore Sanitary Landfill budget for the purpose of entering into a cost sharing agreement with McKinley Hillside Limited to construct a leachate treatment system;

AND FURTHER THAT the 2016 Financial Plan be amended to include this additional \$130,000 plus applicable taxes be funded from the landfill reserve.

Purpose:

To provide funds necessary to partner with the developer of the McKinley Beach Development, in order to pay for the incremental costs required to receive and treat leachate from the landfill. Further, the 2016 financial plan will need to be amended accordingly.

Background:

The City currently pumps leachate from landfill to the sanitary collection system in the Quail Ridge area. While this leachate is treated at the landfill, the level of treatment is limited and the effluent leaving the landfill has very high levels of H₂S, an odour causing compound. The H₂S levels within the leachate are a source of nuisance odour for the Quail Ridge residents and a safety concern for staff conducting routine maintenance on the sanitary collection system.

The McKinley Beach developer is required to construct a sanitary collection system in order to subdivide his properties. As part of this collection system, a lift station in the proximity of the landfill is required to be constructed by the developer. This created a unique opportunity for the City and the developer to work together to improve the method in which the City

treats and manages its leachate, and for both parties to reduce costs. The developer benefits by the use of landfill lands for the sanitary lift station and use of three phase power already developed and paid for by the City. The City benefits by treating the leachate, reducing nuisance impacts on the Quail Ridge residents, improving safety, eliminating the capital works required to pump effluent to Quail Ridge, and reducing costs to construct new treatment works by combining these works within the proposed sanitary lift station.

As part of the City's 2015 budget process, the proposed partnership with the developer was reviewed and approved by Council with the City's share expected to be \$200,000. When the budget was approved there was no design work completed and the partnership with the developer was only conceptual. Staff have worked with the developer and his engineers and have created a very efficient design that will meet all of the City's and the developer's objectives. More recently the developer has tendered the aforementioned project, but will need the City's incremental share of the funds in order to award the project. The City share of the works include: an aerator, piping to the lift station, a larger wet well and additional biofilter capacity.

Discussion:

The proposed partnership is a win-win arrangement with both parties receiving benefit from the proposed agreement. Staff expect that the proposed changes will reduce long term City capital and operational costs, reduce public nuisance, provide environmental benefit and result in improvements to operator safety. The works are expected to be completed by the spring of 2016, pending Council's approval.

Financial/Budgetary Considerations:

\$130,000 in additional funds from the landfill reserve will be required and the 2016 financial plan will need to be amended accordingly. This will not affect taxation as the landfill is self funding. Further, the change will not affect landfill tipping fees.

Internal Circulation:

Divisional Director, Community Planning and Real Estate
Divisional Director, Infrastructure
Financial Services Director
Development Engineering Manager

Considerations not applicable to this report:

Legal/Statutory Authority:
Legal/Statutory Procedural Requirements:
Existing Policy:
Personnel Implications:
External Agency/Public Comments:
Communications Comments:
Alternate Recommendation:

Submitted by:

A. Reeder, Utility Planning Manager

Approved for inclusion:



A. Newcombe, Infrastructure Divisional Director

cc: Divisional Director, Community Planning and Real Estate
Divisional Director, Infrastructure
Financial Services Director
Development Engineering Manager