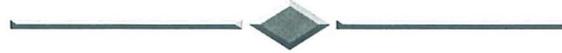


A G E N D A



FOR THE *SPECIAL MEETING OF RED DEER CITY COUNCIL*

TO BE HELD IN

THE COUNCIL CHAMBERS, CITY HALL

FRIDAY, March 13, 2009

COMMENCING AT 6:00 P.M.



(1) MINUTES

(2) UNFINISHED BUSINESS

(3) PUBLIC HEARINGS

(4) REPORTS

1. Director of Development Services – *Re: Building Canada Fund – Communities Component Grant Application Water Treatment Intake Upgrade and Residuals Management System*

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(5) CORRESPONDENCE

(6) PETITIONS AND DELEGATIONS

(7) NOTICES OF MOTION

(8) ADMINISTRATIVE INQUIRIES

(9) BYLAWS



Date: March 13, 2009

To: Legislative and Administrative Services Manager

From: Director of Development Services

Re: **Building Canada Fund – Communities Component Grant Application
Water Treatment Intake Upgrade and Residuals Management System**

Water Treatment Plant Intake Upgrade Project

The Intake Upgrade project will increase The City of Red Deer's ability to withdraw raw water for treatment. The existing intake has a capacity of 90 ML/d. The City does experience maximum daily demands as high as 85 ML/d. It is anticipated that this maximum daily demand will continue to increase and exceed the capacity of the exiting intake. The Intake Upgrade project will increase the design capacity of the intake to 180 ML/d. This increase capacity will ensure that the Water Treatment Plant (WTP) will meet the projected maximum day demand until year 2031 (based on projected population increases and the ability to accommodate increased regionalization).

The intent is that this project would be issued for tender on April 28, 2009 and be awarded by June 15, 2009. The anticipated construction start up date is on or near June 16, 2009. The project is anticipated to be completed on or near January of 2011.

Residual Management System

The second component of this project is construction of a residual management system. Residuals are the byproducts produced in the treatment of raw water to potable water (such as silt, sand, dead leaves/wood and animal byproducts). Past practice has seen these products returned to the Red Deer River. By implementing this management system, approximately 4,400 tonnes of byproducts per year will be diverted from the Red Deer River.

The option that is being pursued is full dewatering of the residuals at the WPT. Residuals will be thicken and then dewatered at the WTP by centrifuges. The dewatered solids will then be disposed at a landfill.

The main components of this project are:

- Detailed design of the system



- Construction of residuals management facility
- Construction of centrifuges
- Site improvements to accommodate vehicle traffic for disposal

The construction for this project is dependent on the construction completion of the Intake Upgrade project. Due to the limited space on the WTP site, construction of both projects would be extremely difficult to manage. The intent is that once the intake project is complete, the residuals management project would be initiated. In the time frame up to this start date, detailed engineering and tender package would be finalized.

The tentative schedule for this work is as follows:

- Obtain Alberta Environment approval of preferred option – December, 2009
- Initiate detailed design – December, 2009 to April, 2010
- Tender and award – April, 2010
- Construction – April, 2010 to January of 2012

The total projected project cost is \$41 M. It is expected that approximately 500 jobs (as per www.fcm.ca – FCM Infrastructure Calculator) will be created as a result of this project.

Recommendation

It is recommended that Council approve submitting this project under the Building Canada Fund – Communities Component.



Paul A. Goranson, P.Eng, MBA
Director of Development Services

Cc: Environmental Services Manager
Development Services Controller

Comments:

We support the recommendation of administration.

"Morris Flewwelling"
Mayor

"Craig Curtis"
City Manager