

PROCEEDINGS OF THE CITY COUNCIL  
Rapid City, South Dakota

September 18, 2006

Pursuant to due call and notice thereof, a special meeting of the City Council of the City of Rapid City was held at the City/School Administration Center in Rapid City, South Dakota on Monday, September 18, 2006 at 6:00 P.M.

The following members were present: Mayor Jim Shaw and the following Alderpersons: Karen Olson, Ron Kroeger, Sam Kooiker, Malcom Chapman, Tom Johnson, Lloyd LaCroix, Bob Hurlbut, and Deb Hadcock; and the following Alderpersons arrived during the course of the meeting: Mike Schumacher and Bill Okrepkie; and the following were absent: None.

Staff members present included Finance Officer Jim Preston, City Attorney Jason Green, Growth Management Director Marcia Elkins, Public Works Director Dirk Jablonski, and Administrative Coordinator Jackie Gerry.

**EXECUTIVE SESSION**

Johnson moved, second by Hurlbut and carried to go into Executive Session at 6:04 P.M. to discuss contractual and personnel matters. The Council came out of Executive Session at 6:46 P.M. with all members present:

Johnson moved, second by Chapman to authorize the Mayor and Finance Officer to sign the counteroffer from Jon E. & Lanceine Ziegler for the purchase of the property at 800 East Centre Street, purchase price not to exceed \$2 Million, and up to \$10,000 in closing costs; and to authorize the Finance Office to issue the Cashier's Checks necessary to complete the closing. In response to a question from Alderman Kooiker, City Attorney Green indicated the intended use of the building is as a bus barn for the Rapid Transit System; sign shop for the Street Department; and evidence storage for the Police Department. Green indicated that the funding source for the contract is 2012 to be ultimately reimbursed with federal dollars. Motion carried.

**PUBLIC WORKS DEPARTMENT**

The next item for discussion is the Jackson Springs Water Treatment Facility. Public Works Director Jablonski explained that the SDDENR has required Rapid City to discontinue use of the Jackson Springs water supply because there is some indication that there may be surface water influence. He indicated that Burns & McDonnell and Ferber Engineering were contracted to study the water source and develop options and a recommendation. Upon completion of the consultant's presentation, Jablonski asked for some indication from the Council on whether they concur with the recommendation.

Mark Lichtwardt, Burns & McDonnell Engineering Co., Inc. indicated that Jackson Springs Infiltration Gallery is a major water source for Rapid City, providing as much as fifty percent of the City's water supply. This water source is reclassified as groundwater under the direct influence of surface water. The South Dakota Department of Environment and Natural Resources has required this water source to be in compliance or shutdown by February, 2006. This water source requires treatment equivalent to surface water sources, such as filtration. He

indicated that the City needs to utilize the Jackson Springs water source as it is a reliable, high quality source.

Lichtwardt outlined Project Objective, Phase 1A, to develop an immediate solution to meet demand and provide adequate service to customers. An immediate solution included the fish hatchery source, Cleghorn Springs water supply, pursuit of a short term waiver, addressed the filtration avoidance criteria, extension of a water main and reconfiguration of the distribution system. It is suggested that to address the filtration avoidance criteria is feasible, but not practical; and the water main extension is feasible, but not the preferred option. The recommendation is 1) Shut down Jackson Springs prior to the compliance date; 2) Install PRV's at the Sioux San Booster Station for reverse flow and making piping improvements; 3) Tie the Pinedale No. 2 Booster Station into the high level; and 4) Add redundancy to backwash pumps at the Water Treatment Plant.

Project Objective, Phase 1B, to develop a short term solution to use the Jackson Springs source is outlined as a Facility Evaluation that includes operations and maintenance, immediate life safety, necessary improvements, aging equipment replacement, and additional equipment replacement. It is reported that the Jackson Springs Gallery is considered to be in fair condition; Meadowbrook Gallery main pump house in poor condition, but pump house #2 and #3 and clearwell are in good condition; and the Girl Scouts Gallery pump house #1 is in poor condition, pump house #2 is in good condition, chlorine shed is in poor condition and the clearwell is in good condition. It is noted that the surface Water Treatment Plant is considered to be in poor condition. The Source Water Evaluation included regulatory evaluation, evaluation of water quality and quantity, summary of hydrogeology, and review of potential future demands. A New vs. Existing Water Treatment Plant Evaluation included evaluating seven sites, retrofitting the existing plant, and conventional and advanced treatment process. A paired-comparison matrix method was used to prioritize criteria and conduct a cost / benefits analysis. The criteria used to site a new Water Treatment Plant included floodplain avoidance, site development, site access, land acquisition, public acceptance, future expansion, raw water transmission, finished water distribution, and additional pumping requirements. The process criteria included water quality, footprint, impact on community, ease of operation, operational flexibility, maintenance, future expansion, raw water transmission, finished water distribution, additional pumping requirements, vulnerability, level of automation, future regulations, reliability, sequencing / financing, and public perception. Recommendation is the best alternative, a fourteen million gallon per day plant located at Jackson / Cleghorn, pretreatment and microfiltration or ultrafiltration membranes; and upgrade of existing plant at a later date.

Project Objective, Phase 1C, is the implementation of the Phase 1A recommendation. In 2007-2008 -- implement life-safety issues, 2007-2010 – build a new 14 MG/D Water Treatment Plant at Jackson / Cleghorn; 2009-2011 – implement short term facility improvements; after 2010 – abandon Well House #1 & #4; years to be determined – install pipeline to deliver Meadowbrook and Girl Scouts galleries raw water to existing Water Treatment Plant, abandon selected Meadowbrook and Girl Scouts facilities; upgrade existing surface Water Treatment Plant; and 2012-2016 – implement long term facility improvements.

Public Works Director Jablonski reiterated that the recommendation is to build a 14 MG/D Water Treatment Plant at Jackson Springs to treat the Jackson / Cleghorn water; and if Council concurs with the recommendation, staff will proceed with the project, beginning with land acquisition and design of the plant facility. Responding to questions from Aldermen Kooiker and

Olson on funding; Jablonski indicated staff will work with the Finance Office to identify funding alternatives. He indicated that an application was submitted for possible federal funding, but to date that alternative does not look favorable. Jablonski explained that until the consultant completed the study, staff was not aware of the potential costs associated with the treatment of the Jackson Springs water source.

Responding to a question from Alderman Kroeger about one facility verses two facilities, Lichtwardt explained that Jackson Springs, being a major source, would be piped to the existing plant at a substantial cost but the City would still have a water quality issue. He indicated that the advantage of having two plants relates to vulnerability and flexibility. Another advantage of the 14 MG/D plant is that the water can be diverted to the south where demands are increasing steadily.

Johnson moved, second by Chapman to refer the Jackson Springs Water Treatment Facility to the September 26, 2006 Public Works Committee meeting for further discussion. Motion carried.

**ADJOURN**

As there was no further business to come before the Council at this time, the meeting adjourned at 7:17 P.M.

CITY OF RAPID CITY

ATTEST:

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Finance Office

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Mayor

(SEAL)