



City of Grand Island

Tuesday, January 27, 2009

Council Session

Item G10

**#2009-19 - Approving Bid Award - Water Main Project 2009-W-2 -
Wellfield Well Header Modifications (Materials Only)**

Staff Contact: Gary R. Mader; Wesley Nespor

Council Agenda Memo

From: Gary R. Mader, Utilities Director
Wesley Nesor, Asst. City Attorney/Purchasing

Meeting: January 27, 2009

Subject: Wellfield Well Header Modifications
Project 2009-W-2 Material Bids

Item #'s: G-10

Presenter(s): Gary R. Mader, Utilities Director

Background

The materials recommended for purchase under this contract are part of a project to increase the ability to mix waters from the 21 wells at the City's Wellfield. The need is driven by new EPA regulation of uranium as detailed below.

In 2003, the new regulation placing a Maximum Contaminate Level (MCL) on uranium in drinking water became effective. Uranium is a naturally occurring element in the aquifers of Nebraska and other states across the nation. Implementation of the new MCL began with the sampling of the state's municipal water systems in accordance with the EPA specified testing protocol. Samples of the Grand Island water supply for regulatory compliance were first taken in 2004. The sampling protocol requires testing for four consecutive quarters, with the average of the year long sampling results being the level by which system compliance is established. Sampling is done at the points at which the supply waters enter the water distribution system, referred to as "Points of Entry". Sampling and testing of the Grand Island water system showed full compliance with the new regulation.

Uranium is not an acute concern but rather is a concern over a lifetime of exposure. According the *Neb-Guide from the University of Nebraska*, "...uranium in water supplies produces very little radioactivity, the health effects from exposure to uranium are primarily thought to be associated with the chemical properties of soluble uranium. Studies suggest that ingestion of high levels of uranium may be associated with an increased risk of kidney damage...Exposure to soluble uranium in drinking water has not been shown to increase the risk of developing cancer."

The Utilities Department has monitored the presence of uranium in the naturally occurring aquifer in Central Nebraska for many years. In a five year study, conducted from 1978 to 1983, sponsored by the Central Platte Natural Resources District and conducted by Dr. Roy Spalding of the University of Nebraska, the uranium levels in the Central Platte Valley were tested and mapped. From that study, it is known that levels of uranium can vary substantially over relatively short distances. Additionally, Nebraska Health and Human Services (HHS) has worked very closely with several cities in the state where test results showed area water supplies exceeded the newly promulgated MCL. Because of the known variability from the 1983 report and the confirmation of that variability by the more recent HHS work, the Utilities Department established a regular testing regimen of each of the 21 wells at the Wellfield. The testing confirmed that the levels of uranium vary from well to well and generally increase from east to west along the length of the island upon which the wells are located. Several of the individual wells on the westerly end of the island exceeded the newly established MCL. Because the sampling is from a composite of supply waters, the overall contaminate levels at the Points of Entry to the water distribution system meet the new standard. As a result of the Utilities Department's sampling, the staging of operation among the Wellfield wells has been modified to prioritize supply from the easterly, lower uranium wells. That also requires modification of the operation of the pumping station there.

At present, the collector piping at the Wellfield, which brings the water from each well to the central pumping station, is generally configured from two separate directions, east and west. In order to increase the ability to blend water from the wells, cross ties of the collector piping headers at the pumping station are required, which requires tapping the existing headers, one of which is 36" in diameter. Utility engineering staff is working on the detailed design of the cross ties. That design has progressed to the point that some of the larger piping and fittings required can be purchased. Therefore, in order to provide the materials needed to increase the redundancy and flexibility of the operation of the Wellfield, specifications were prepared and bids solicited for Water Main Project 2009-W-2 – Wellfield Well Header Modifications Materials.

Discussion

The specifications and Notice to Bidders were advertised in accordance with the City Procurement Code, and bids were publicly opened on January 15, 2009 at 11:00 a.m. Two bids were received as tabulated below.

Item	Bid	Exceptions	Delivery	Bidder
C.1.01, Pipe, etc.	\$ 29,986.67	None	2-4 weeks	Municipal Supply, Inc.
C.1.02, Valves, etc.	\$ 98,601.97	None	4-8 weeks	Hastings, NE
C.1.03, All Materials	\$128,588.64	None	2-8 weeks	
C.1.01, Pipe, etc.	\$ 35,458.46	None	2-4 weeks	HD Supply,
C.1.02, Valves, etc.	\$ 82,273.41	None	4-6 weeks	Omaha, NE
C.1.03, All Materials	\$117,731.87	None	2-6 weeks	

A list of materials included in each bid item is attached.

The specifications were prepared to allow the City to select, accept, and award any or all items to the low bidder on each bid item, whichever combination provides the best and lowest overall cost. The combination of the bid price of Item C.1.01 from Municipal Supply in the amount of \$29,986.67; and Item C.1.02 from HD Supply in the amount of \$82,273.41; results in an overall total of \$112,260.08. Construction funds are available in the FY 2008-2009 Budget.

Alternatives

It appears that the Council has the following alternatives concerning the issue at hand. The Council may:

1. Move to approve
2. Refer the issue to a Committee
3. Postpone the issue to future date
4. Take no action on the issue

Recommendation

City Administration recommends that the Council accept and award Item C.1.01 to Municipal Supply of Hastings, Nebraska in the amount of \$29,986.67; and accept and award Item C.1.02 to HD Supply of Omaha, Nebraska in the amount of \$82,273.41

Sample Motion

Move to approve award of Item C.1.01 to Municipal Supply of Hastings, Nebraska in the amount of \$29,986.67, and award Item C.1.02 to HD Supply of Omaha, Nebraska in the amount of \$82,273.41.

CITY OF GRAND ISLAND, NEBRASKA
 UTILITIES DEPARTMENT

Bid: 1/15/2009

WMP 2009-W-2, Wellfield Well Header Modifications, MATERIALS

			Municipal Supply, Inc Hastings, NE		HD Supply Omaha, Ne	
ITEM	DESCRIPTION	QUANTITY	Bid \$	Delivery	Bid \$	Delivery
C.1.01	18" D.I.. Pipe (sj)	18.00 LF	\$29,986.67	2-4 weeks	* \$34,670.76	2-4 weeks
	6" D.I.. Pipe (sj)	36.00 LF				
	20"x20"x6" Tee (mj)	2.00 EA				
	20"x18" Reducer (mj)	2.00 EA				
	20"x45 Ell (mj)	3.00 EA				
	20" Retainer Gland	12.00 EA				
	18" Retainer Gland	2.00 EA				
	6" Retainer Gland	8.00 EA				
	6"x90° Ell (mj)	2.00 EA				
ITEM	DESCRIPTION	QUANTITY	Bid \$	Delivery	Bid \$	Delivery
C.1.02	36"x20" Tapping Sleeve	1.00 EA	\$98,601.97	4-8 weeks	\$82,273.41	4-6 weeks
	20"x20" Tapping Sleeve	1.00 EA				
	18"x18" Tapping Sleeve	2.00 EA				
	20" Tapping Valve	2.00 EA				
	18" Tapping Valve	2.00 EA				
	6" RW Gate Valve	2.00 EA				
	Valve Box	2.00 EA				
ITEM	DESCRIPTION	QUANTITY	Bid \$	Delivery	Bid \$	Delivery
C1.03	All Materials		\$128,588.64	2-8 weeks	* \$116,944.17	2-6 weeks

* Evaluated price

Low Item C.1.01	\$29,986.67	Municipal Supply, Inc
Low Item C.1.02	<u>\$82,273.41</u>	HD Supply
Total Low	\$112,260.08	



Wes Nespor, Purchasing Agent

*Working Together for a
Better Tomorrow, Today*

BID OPENING

BID OPENING DATE: January 15, 2009 at 11:00 a.m.

FOR: Water Main Project 2009-W-2
Wellfield Well Header Modifications (Materials Only)

DEPARTMENT: Utilities

ESTIMATE: \$98,000.00

FUND/ACCOUNT: 525

PUBLICATION DATE: January 2, 2009

NO. POTENTIAL BIDDERS: 8

SUMMARY

Bidder:	<u>Municipal Supply, Inc.</u> Hastings, NE	<u>HD Supply Waterworks</u> Omaha, NE
Bid Security:	\$6,500.00	RLI Insurance Company
Exceptions:	None	None
Bid Price:		
C.1.01:	\$ 29,986.67	\$ 35,458.46
C-1.02:	\$ 98,601.97	\$ 82,273.41
Total:	\$128,588.64	\$117,731.87

cc: Gary Mader, Utilities Director
Dale Shotkoski, City Attorney
Jeff Pederson, City Administrator
Tom Barnes, Utilities Engineering Manager

Bob Smith, Assist. Utilities Director
Wes Nespor, Purchasing Agent
Pat Gericke, Utilities Admin. Assist.

RESOLUTION 2009-19

WHEREAS, the City Electric Department invited sealed bids for Wellfield Well Header Modifications; and

WHEREAS, on January 15, 2009 bids were received, opened and reviewed; and

WHEREAS, Municipal Supply, Inc. of Hastings, Nebraska submitted a bid for Item C.1.01 in the amount of \$29,986.67, and HD Supply of Omaha, Nebraska submitted a bid for Item C.1.02 in the amount of \$82,273.41, in accordance with the terms of the advertisement of bids and plans and specifications and all other statutory requirements contained therein; and

WHEREAS, the combined bids of Municipal Supply of Hastings, Nebraska and HD Supply of Omaha, Nebraska are less than the estimate for Wellfield Well Header Modifications.

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND COUNCIL OF THE CITY OF GRAND ISLAND, NEBRASKA, that the bids of Municipal Supply of Hastings, Nebraska, in the amount of \$29,986.67 and HD Supply of Omaha, Nebraska, in the amount of \$82,273.41, for a total cost of \$112,260.08, for Wellfield Well Header Modifications are hereby approved as the lowest responsible bids.

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Adopted by the City Council of the City of Grand Island, Nebraska, January 27, 2009.

Margaret Hornady, Mayor

Attest:

RaNae Edwards, City Clerk

Approved as to Form	☐ _____
January 21, 2009	☐ City Attorney