



MAYOR AND COUNCIL COMMUNICATION

DATE: 2/05/2013

CONSENT

ITEM #: 5

MOTION

AGENDA ITEM: Water Supply Well No. 4 – Authorize Preparation of Plans and Specifications

SUBMITTED BY: Jack Griffin, City Engineer

THROUGH: Dean A. Zuleger, City Administrator

REVIEWED BY: Mike Bouthilet, Public Works
Ryan Stempski, Assistant City Engineer

SUMMARY AND ACTION REQUESTED: The City Council is respectfully requested to consider authorizing the preparation of plans and specifications for the construction of the Production Well No. 4.

STAFF REPORT: Construction of Water Supply Well No. 4 is needed to supplement the supply capacity of the city's municipal water system in order to satisfy peak summer demands and support further expansion of the water system customer base from new growth and development. The need for Well No. 4 is documented in the City's 2030 Comprehensive Water System Plan and has been programmed in the DRAFT 2013-2017 Water Infrastructure Capital Improvement Program. Its construction will be required before additional subdivisions or major water users are added to the system. Construction of Water Supply Well No. 4 will allow the City to be responsive to development opportunities. It also provides existing water customers with adequate backup supply should issues arise with existing municipal wells.

Test Well No. 4 was completed in February of 2012 to confirm adequate production capacity and water quality for the proposed well site near 50th Street N and Lake Elmo Avenue. Upon the successful completion of Test well No. 4, a 1.38 Acre Site was purchased at 11250 50th Street North to locate the new Well and Pumphouse. The site includes a shared driveway with the property located directly north and contains adequate space to provide setback distances in accordance with the well criteria established by the Minnesota Department of Health.

To continue with the implementation of Water Supply Well No. 4, the preparation of plans and specifications for the Production Well will need to be authorized by the City Council.

Production Well No. 4 will be designed and constructed as a Jordan Formation well with the following goals:

1. A Production Well that produces a water supply meeting all primary safe drinking water standards, including safe standards for perfluorochemicals (PFCs).
2. A Production Well that produces a high quality drinking water that will not require secondary treatment facilities such as clarification and filtration.
3. A High Capacity Production Well in excess of 1,000 gallons per minute (gpm).

Following completion of Production Well No. 4, or near its completion, it is anticipated that a staff will recommend that the City Council authorize the preparation of plans and specifications for the construction of Pump House No. 4 to be constructed under a separate contract. A third contract will be commissioned for a new 12-inch diameter trunk connecting watermain from the well location to connect with the existing watermain near the intersection of Lake Elmo Avenue and 43rd Street N.

FUNDING: Project costs for the Design and Construction of Production Well No. 4, Pump House No. 4 and the Lake Elmo Avenue Connecting Trunk Watermain are all incorporated into the City's \$1.0 Million DEED Water System Grant Agreement. It is a requirement of the DEED Grant that the City provide a match of \$1.0 Million, anticipated to be funded through bond proceeds. Combined with the Keats Trunk Watermain Extension, the City will be constructing almost \$2.6 million in water infrastructure projects. The state's obligation to fund the DEED Grant shall terminate if the entire Grant has not been disbursed by December 31, 2014.

RECOMMENDATION: Staff is recommending the City Council authorize preparation of plans and specifications for Production Well No. 4 in accordance with the DRAFT 2013-2017 Water Infrastructure Capital Improvement Program.

ATTACHMENTS:

1. DRAFT 2013-2017 Water Infrastructure Capital Improvement Program
2. Project Schedule
3. Preliminary Site Plan