



**VILLAGE OF HUNTLEY
AGENDA SUMMARY**

January 12, 2023
Village Board Meeting

Agenda Item: **Consideration – Resolution Approving a Base Bid Award to Municipal Well & Pump for the Construction of Water Well No. 13 in the amount of \$1,470,844**

Department: **Public Works and Engineering – Administration and Engineering**

INTRODUCTION

The Village operates and maintains a public water system that includes five deep wells that pump groundwater to five water treatment plants that distribute water to approximately 190 miles of water main and a combined 3.318 million gallons of elevated and ground water storage within one pressure zone. The system contains approximately 2,200 fire hydrants and 4,700 valves.

The Village has been proactive in building its water production and distribution system over the past two decades. An analysis of water usage from 2011 – 2021 shows an annual maximum daily pumpage ranging from 4.01 million gallons per day (MGD) to 5.41 MGD, with these amounts occurring in the months of June, July or August. The same analysis indicates the water system annual average daily pumpage ranged from 2.09 MGD to 2.62 MGD.

Irrigation water use during the 5-year period of 2009 – 2013 was approximately 22% of annual total usage and is equivalent to dedicating one of the five existing wells and water treatment plants just for irrigation. Between 2017 – 2021, irrigation water use dropped to 17%. Annual precipitation amounts have a direct impact on the Village’s water system. In 2021, through mid-June 2021 Huntley received about 5 inches of precipitation, a deficit of about 6 inches resulting in a severe drought condition over much of the area. On June 10, 2021, the Village pumped 4.92 million gallons of water equating to 2.24 times more than the average daily demand of 2.2 MGD. This demand required all five wells to operate for over 19 hours across a 24-hour period. Typically, well pumping equipment should not operate more than 16 hours in a 24-hour period to avoid over-stressing the equipment.

Based on unpredictable future dry weather patterns and corresponding outdoor water use trends as well as current and forecasted development in the Village, increased water demands on the existing water system are expected. A new deep well would increase production capacity to approximately 6.2 MGD.

STAFF ANALYSIS

On September 23, 2021, the Village Board approved an agreement with EEI for design engineering services for Water Well No. 13. On October 13, 2022, the Village Board approved an ordinance authorizing a Third Amendment to the Par Tucker Annexation Agreement. The amendment specifically provides for up to a one-acre well site for a new deep well and treatment facility (Water Facility). On Wednesday, December 14, 2022, bids were received from two contractors for the Water Well No. 13 project. The bid results are summarized in the attached Bid Tab.



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The bids have been reviewed by staff and the lowest responsive, responsible bidder for the Well No. 13 project is Municipal Well & Pump in the Base Bid amount of \$1,470,844. All is in order to award the Water Well No. 13 project Base Bid to Municipal Well & Pump.

2022-2025 STRATEGIC PLAN ALIGNMENT

The Strategic Plan identifies *"Forward Looking Community"* as a strategic focus and the following goal: *"Management of Infrastructure Assets for Today and Tomorrow."* New Water Well No. 13 will increase the water production capacity necessary to keep pace with potable water demand.

FINANCIAL IMPACT

The FY23 Budget includes funding in the Water Capital Improvement and Equipment Fund, 515-00-00-8004 for the Water Well No. 13.

LEGAL ANALYSIS

None required.

ACTION REQUESTED

A motion of the Village Board for a Resolution Approving a Base Bid Award to Municipal Well & Pump for the Construction of Water Well No. 13 in the amount of \$1,470,844.

SUPPORTING DOCUMENTS

1. Well No. 13 Location Exhibit
2. EEI Award Recommendation Letter
3. Bid Tab
4. Draft Resolution