

**Cost Estimate Summary
Water Supply Project Option
September 2023 Prices
Elsa - Municipal Fresh Groundwater Well**

**Cost based on ENR CCI 13485.67 for September 2023 and
a PPI of 278.502 for September 2023**

<i>Item</i>	<i>Estimated Costs for Facilities</i>
Intake Pump Stations (0 MGD)	\$1,246,000
Transmission Pipeline (16 in. dia., 2 miles)	\$4,020,000
Well Fields (Wells, Pumps, and Piping)	\$2,525,000
Water Treatment Plant (2.2 MGD)	\$180,000
Integration, Relocations, Backup Generator & Other	\$25,000
TOTAL COST OF FACILITIES	\$7,996,000
- Planning (3%)	\$240,000
- Design (7%)	\$560,000
- Construction Engineering (1%)	\$80,000
Legal Assistance (2%)	\$160,000
Fiscal Services (2%)	\$160,000
Pipeline Contingency (15%)	\$603,000
All Other Facilities Contingency (20%)	\$795,000
Environmental & Archaeology Studies and Mitigation	\$107,000
Land Acquisition and Surveying (13 acres)	\$92,000
Interest During Construction (3.5% for 1 years with a 0.5% ROI)	<u>\$350,000</u>
TOTAL COST OF PROJECT	\$11,143,000
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	\$782,000
Reservoir Debt Service (3.5 percent, 40 years)	\$0
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	\$66,000
Intakes and Pump Stations (2.5% of Cost of Facilities)	\$31,000
Dam and Reservoir (1.5% of Cost of Facilities)	\$0
Water Treatment Plant	\$108,000
Advanced Water Treatment Facility	\$0
Pumping Energy Costs (674210 kW-hr @ 0.09 \$/kW-hr)	\$61,000
Purchase of Water (acft/yr @ \$/acft)	<u>\$0</u>
TOTAL ANNUAL COST	\$1,048,000
Available Project Yield (acft/yr)	2,464
Annual Cost of Water (\$ per acft), based on PF=1	\$425
Annual Cost of Water After Debt Service (\$ per acft), based on PF=1	\$108
Annual Cost of Water (\$ per 1,000 gallons), based on PF=1	\$1.31
Annual Cost of Water After Debt Service (\$ per 1,000 gallons), based on PF=1	\$0.33
<i>Note: One or more cost element has been calculated externally</i>	
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