

**Cost Estimate Summary
Water Supply Project Option
September 2023 Prices
Maverick County - New Brackish Groundwater Desalination**

**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)	\$1,159,000
Transmission Pipeline (14 in. dia., 3.5 miles)	\$4,402,000
Well Fields (Wells, Pumps, and Piping)	\$5,845,000
Storage Tanks (Other Than at Booster Pump Stations)	\$1,404,000
Water Treatment Plant (1.5 MGD)	\$27,286,000
Integration, Relocations, Backup Generator & Other	\$22,000
TOTAL COST OF FACILITIES	\$40,118,000
- Planning (3%)	\$1,204,000
- Design (7%)	\$2,808,000
- Construction Engineering (1%)	\$401,000
Legal Assistance (2%)	\$802,000
Fiscal Services (2%)	\$802,000
Pipeline Contingency (15%)	\$660,000
All Other Facilities Contingency (20%)	\$7,143,000
Environmental & Archaeology Studies and Mitigation	\$285,000
Land Acquisition and Surveying (59 acres)	\$336,000
Interest During Construction (3.5% for 1.5 years with a 0.5% ROI)	<u>\$2,659,000</u>
TOTAL COST OF PROJECT	\$57,218,000
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	\$4,025,000
Reservoir Debt Service (3.5 percent, 40 years)	\$0
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	\$117,000
Intakes and Pump Stations (2.5% of Cost of Facilities)	\$29,000
Dam and Reservoir (1.5% of Cost of Facilities)	\$0
Water Treatment Plant	\$5,315,000
Advanced Water Treatment Facility	\$0
Pumping Energy Costs (514315 kW-hr @ 0.09 \$/kW-hr)	\$46,000
Purchase of Water (acft/yr @ \$/acft)	<u>\$0</u>
TOTAL ANNUAL COST	\$9,532,000
Available Project Yield (acft/yr)	136
Annual Cost of Water (\$ per acft), based on PF=1	\$70,088
Annual Cost of Water After Debt Service (\$ per acft), based on PF=1	\$40,493
Annual Cost of Water (\$ per 1,000 gallons), based on PF=1	\$215.06
Annual Cost of Water After Debt Service (\$ per 1,000 gallons), based on PF=1	\$124.25