

**\*Project Name**

Ken Caryl West Ranch Water District Engineering and Design - Radionuclides Treatment Project Well #21

**\*Grant Recipient**

Ken Caryl West Ranch Water District

**\*Primary Contact**

Renee Lewis

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**\*MRT WSRF Grant Type**

Conceptual Projects - In Basin and Transbasin  
Eligible Water Activities (Check All That Apply)

Municipal/Industrial

If other, please explain.

(No response)

**Total Project Cost**

\$ 146,500.00

**\*MRT WSRF Grant Amount Request**

\$ 50,000.00

**Colorado Water Plan Grant Amount Request (if any)**

\$ 0.00

**Other Basin Roundtable WSRF Funding Being Requested (if any)**

\$ 50,000.00

**If Other Roundtable Requests, which roundtable(s)**

N/A Statewide Drought Resiliency

**\*Project Description**

The District currently operates and maintains 7 wells as source water for the municipal system. One of the wells, Well #21, is currently under an enforcement order (#DC-031230-01) by CDPHE due to elevated levels of radionuclides and is not being utilized. This well produced approximately 4.5 acre feet/year during the last flow tests. Once this source is brought on line, it is anticipated that it will continue to produce at a similar level addressing the Technical Update goal of meeting municipal water gaps. The District currently operates and maintains a similar radionuclide treatment system on another well and anticipates this to be the most cost-effective option for increasing source water within the service area boundaries.

**\*Which MRT priorities does the project address? How?**

1. Encourage Implementation of Projects (1A & 1B) - encourage the implementation of projects that meet existing and future M & I water needs in that assistance provided to bring on Well #21 will add approximately 4.5 acre feet per year to the service area. 2. Maximize Development of Native South Platte Supplies (2B) - assistance provided to bring on Well #21 promotes more effective use of available groundwater supplies to supplement existing developed supplies within the service area, as well as, to

provide additional yield and resiliency using conjunctive surface/groundwater storage strategies as wells in the service area are more easily rotated for recharge.

**\*Project Timeline and Tasks**

-Complete the engineering and design of the radionuclides treatment facility for Well #21. -Engineering and design to include OCCT, disinfection, pipe infrastructure, process flow, and new building. -Timeline: Project application - Sept-Dec 2022; Final design - June 2023

Attach Budget (not required)

(No response)

Attach a map, graphic, etc. (not required)

(No response)

Attach a File (not required)

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