KEY FACTS AND CONCLUSIONS OF 2018 BONANZA SPRING STUDY

On January 30, 2018, geologist Miles Kenney, PhD and veteran hydrogeologist Mr. Terry Foreman co-authored a new report based on extensive field work that identified important new facts about the Bonanza Spring. Among these important new facts are:

- ➤ Bonanza Spring occurs in fractured crystalline mountain bedrock in the southwestern Clipper Mountains at 2,100 feet elevation. The spring exists entirely in bedrock.
- ➤ Bonanza Spring is 11 miles northeast of the northern end of Cadiz Water Project's wellfield.
- ➤ The Cadiz Water Project wellfield water table in the alluvial aquifer occurs at approximately 1,100 feet elevation 1,000 feet lower than Bonanza Spring which indicates "disconnection" between the two systems. The alluvial groundwater aquifer is also three miles to the east of the Bonanza Spring.
- ➤ Bonanza Spring is located at the intersection of two extensive bounding faults, which exhibit evidence of being groundwater barriers.
- ➤ The two bounding faults create a spring catchment area that extends over 4 miles north of the Bonanza Spring. Recharge to the catchment area is delivered by precipitation and runoff that infiltrates the porous, fractured rock formations up gradient from the spring.
- > This fractured rock system is effectively hydraulically separated from the alluvial regional groundwater system in Fenner Valley.
- ➤ Long-term climate conditions, not regional groundwater conditions, control recharge of Bonanza Spring.

The final report and related materials are available for review at the following link: http://www.cadizwaterproject.com/2018-bonanza-spring-study/.

