



WOODMOOR

Water & Sanitation District No. 1

P. O. Box 1407 • Monument, Colorado 80132
Phone (719) 488-2525 • Fax (719) 488-2530

January 29, 2018

El Paso County Planning & Community Development
Attn: Nina Ruiz, Project Manager/Planner II
2880 International Circle
Colorado Springs, CO 80910

RE: Proposed Well No. 21 (Arapahoe)
Lot 13, Misty Acres Subd., Filing No. 2
a.k.a. 19935 Alexander Drive
Monument, Colorado 80132

Dear Ms. Ruiz:

The Woodmoor Water and Sanitation District No. 1 (“District”) intends to construct a new municipal water well in the Arapahoe aquifer formation for the Districts municipal uses. The scope of the project includes drilling and equipping the well, constructing site piping and a well house that will contain electrical and metering equipment for the well and the District expects to install approximately 5,500 linear feet of transmission pipeline to transport the produced water from the well location to the Districts Central Water Treatment Facility (CWTP). The pipeline is anticipated to be either 6 or 8 inch in diameter (dependent upon well production testing and pumping equipment selected). A draft site plan and transmission pipeline alignment is attached showing the location(s) of proposed project infrastructure. The purpose for the well is to increase “peak season” (i.e. summer time) water supply to the Districts growing population and to compensate for cumulative well field production losses as a result of declining aquifer levels over time. The District is aware of El Paso County’s (“County”) 1041 regulations and has reviewed those regulations against the proposed project attributes. The District believes that projects of like type to that described herein are defined in the regulations as a “Municipal and industrial water project”. In reviewing the regulations (specifically exemptions and applicability cited within the various chapters) the District believes that the proposed well project is exempt pursuant to the County’s 1041 regulations. Our analysis for exemption is presented below for your consideration and determination:

1. In reviewing chapter 3, specifically paragraph 3.104.2.d which states that a municipal water project is exempt from the regulations provided that the project results in a new or increased diversion of water that is less than 500 acre-feet (annually implied). Experience with previous wells and similar hydrogeology leads the District to believe that the proposed well is likely to be limited to a maximum production rate of approximately 300 gpm. At 300 gpm of continuous non-stop pumping over a full year of duration, the maximum water diversion that could be attained mathematically equates to 484 acre-feet. While it's possible that the well (after pump testing) could yield a higher production rate (i.e. greater than 300 gpm) and the District may install pumping equipment to achieve that higher rate, it's also extremely unlikely in this situation that annual withdrawals from the aquifer will exceed 500 acre-feet. This is primarily due to the cyclical nature of the public's demand for water the associated peaking demands from it (i.e. heavy peak demands in the summer irrigation season followed by low demands over the winter season). Table 1, below, illustrates that historic 10 year production from each of the Districts Arapahoe wells has been significantly less than 500 acre-feet per year on a consistent basis although some of the wells have pumping equipment installed that facilitates production rates in excess of 300 gpm during short term intervals in order to satisfy periodic peaking supply requirements during the summer irrigation season (i.e. peak hour, peak day, peak week, etc.)

Table 1: Historic Annual Production by Well (Acre-Feet)

Arapahoe Wells								
Year	No. 8	No. 10	No. 11	No. 12	No. 15	No. 16	No. 18	No. 20
2007	14.4	98.4	58.3	79.4	44.6	66.4	19.3	0.0
2008	26.9	89.0	86.4	81.6	47.6	79.7	47.1	50.2
2009	19.7	166.4	54.2	67.6	97.4	93.3	113.0	166.7
2010	11.4	145.2	40.9	50.1	48.8	58.7	59.3	144.4
2011	15.6	177.2	93.0	35.5	75.4	42.7	94.8	163.4
2012	13.8	202.7	68.4	99.9	115.6	122.7	129.2	189.6
2013	9.2	188.9	33.2	154.5	88.7	126.8	98.9	119.9
2014	6.1	138.3	44.0	32.8	77.2	74.8	76.2	119.3
2015	0.3	131.7	21.2	69.3	91.1	93.8	73.3	69.9
2016	19.7	125.6	67.8	134.0	53.9	59.5	131.5	115.6
2017	13.9	186.5	84.0	114.6	70.5	98.8	117.7	115.6

2. Chapter 4 highlights aspects of major new domestic water and sewage treatment systems or extensions thereto. The proposed water project will not precipitate a need for any expansion, addition or extension to the water treatment facility (i.e. CWTP) or its systems. CWTP was expanded in 2006 and currently possesses the rated capacity required to serve the proposed project.

For the reasons cited above, the District respectfully requests a formal review of its project and a determination as to the applicability of the County's current 1041 regulations and permit requirements.

We look forward to hearing from you. If you have any questions, comments, concerns or need additional information, please contact me directly at 719-488-2525 x14.

Sincerely,

A handwritten signature in blue ink that reads "Jessie J. Shaffer". The signature is written in a cursive style with a large initial "J".

Jessie J. Shaffer
District Manager

JJS:js

Cc: Timothy Crawford, P.G. – Bishop-Brogden Associates, Inc.
Joey Seed – District Engineer

Enc.

WOODMOOR WATER & SANITATION DISTRICT NO. 1

WELL 21 PROJECT



LOCATION MAP



VACINITY MAP

