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Board Meetings

At the District Office:
Friday, April 13th at 8:30 a.m.
Friday, May 11th at 8:30 a.m.
Monday, June 11th at 8:30 a.m.

ASCWD

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Charles Nungester, VP
Janet S. Grant
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Virginia Quinan

General Manager

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EASTER EGG HUNT – APRIL 7

ASCWD will hold its traditional Easter Egg Hunt for residents and guests on Saturday, April 7, 2007. The hunts, which will vary according to age, will begin at 10:00 A.M. in the Water District parking lot. (The hunts will be over quickly, so be on time) Bring your own basket for collecting eggs and treats from the Easter Bunny. Dress for the weather, as this event will be held snow, rain or shine. (We still need an Easter Bunny, so if any readers would like to volunteer, please contact Pam at the Water District 583-2342 x-11. We have a wonderful bunny suit and top hat.) We look forward to seeing old and new participants of all ages!

BIRD WALK – JUNE 23

Warren Bray is back! He will conduct a Bird Walk in the Valley on Saturday, June 23, 2007, starting at 8:00 a.m. Please meet at the Alpine Meadows Stables – wear sturdy shoes and bring field glasses or binoculars. You should be back at the Stables by 10:00 a.m. or soon thereafter.

ALPINE SPRINGS COMMUNITY PARK

Welcome to the 10th season of the Alpine Springs Community Park! If you have never used our two wonderful tennis courts, the fabulous swimming pond, volleyball court, grassy play area with picnic tables or gas barbeques, you have missed a great opportunity to experience our Alpine environment. These amenities are well-maintained in our beautiful alpine setting. Season passes, day use passes, and family week passes are a great buy and are available at the District office, Monday through Friday. The park pass fees are as follows: Single User Day Pass - \$5; Family Week Pass - \$55; Family Day Use Pass - \$15; Family Season Pass - \$125. A refundable deposit of \$5 per pass card will be charged and returned upon receipt of the card. Only one card will be issued for each Family Season Pass.

A Park Pass Application is attached. Please complete the application in full, including signing the application in the two designated places, and bring it to the District office with your check, payable to ASCWD.

A reservation for groups of more than 10 persons up to 200 persons is required. Groups of more than 200 persons are allowed only with approval of the District General Manager. Group use fees are as follows: 11 to 25 persons - \$35; 26 to 50 persons - \$70; 51 to 75 persons - \$150; 76 to 125 persons - \$225; 126 – 150 persons - \$300. The fee for weddings and groups of 151 to 200 persons is \$1,000. Barbeques may be reserved at a fee of \$5 for each barbeque. In addition, a \$200 damage deposit will be charged for groups of 11 to 150 persons for clean-up/ breakage/repairs. A \$500 damage deposit will be charged for weddings and groups of 151 persons or more. Unused monies from the damage deposit will be refunded. Please call the District office at (530) 583-2342 to make a reservation.

PLEASE REMEMBER

- The park is totally supported by user fees, so collecting fees for use is essential for continued park operation. **Please do not prop open the gate!**
- Only household members may share a Family Season Pass. Adults from different households must purchase their own pass.
- Children under 12 must be supervised by an adult – there is no lifeguard.
- **No dogs or other pets are allowed at any time.**
- There is no exclusive use of the park, even if you have reserved it for group use.
- Pass and group use applicants will be required to sign a liability waiver and release form.
- **If you plan to use the Park during the weekend or holidays, you must purchase a Park pass beforehand – the District office is closed on Saturday, Sunday and holidays.**
- Additional information is available at <http://www.alpinesprings.org> – click on “PARK.”

LONG RANGE MASTER PLAN FOR WATER AND SEWER SERVICES

The District Board of Directors heard presentations of the Long Range Master Plan for water and sewer service at its February and March meetings. The District hired the consulting firm of Lumos and Associates to prepare the plan at a cost of approximately \$52,000.00. The purpose of the Long Range Master Plan is to evaluate the condition of the existing water and sewer utility systems and provide recommendations for the necessary improvements. The District's water and sewer facilities are approximately 43 years old. Growth in both water and sewer demands within the District is anticipated to occur in several ways: (1) Build-out of approximately 202 existing entitled single-family lots; (2) The renovation or redevelopment of existing homes with a greater water demand.

Sewer System Analysis and Results: Sewer usage was estimated from typical residential and commercial figures obtained from the "Recommended Standards for Sewage Works", 1988, an engineering standard for the industry. Based upon the analyses provided in the report, there were no sewer deficiencies found. The sewer facilities are sufficient to accommodate both existing and build-out customer usage.

Water System Analysis and Results: A water usage evaluation was completed based upon water usage data for the fiscal years 2003-2004, 2004-2005, 2005-2006. An average daily demand ("ADD"), the amount of water consumed during a single 24-hour period of consumption, was obtained using the existing meter data of the District's customers. Both maximum daily demand ("MDD") data and peak hourly demand ("PHD") data were obtained using engineering judgment. Maximum daily demand is the largest amount of water delivered during a single 24-hour period. Peak hourly demand is the largest amount of water delivered during a single hour throughout the year. These demand data, along with production and storage data, are useful in determining whether the District meets required codes and regulations with regard to water service.

A computer water model was also constructed for the District water system. The calculated average daily flows were used in the model for both the current and 20-year build-out timeframes. The estimated maximum daily and peak hourly demands were also used in the model for both the current and 20-year build-out timeframes. Fire flow demands were also modeled using both the California Fire and Uniform Fire Code requirements.

Based upon the analyses provided in the report, the District's existing water facilities can currently serve ADD for both the existing and build-out scenarios. However, the District's facilities will require improvement in order to meet MDD, PHD and fire flow conditions for both existing and build-out demands. The following briefly summarizes the District's water system inadequacies and the consultants' recommendations to meet minimum requirements of the State of California.

Meeting Average Daily Demands

The District does not require any additional facilities or rehabilitation to meet ADD for both existing and build-out customer figures.

Meeting Maximum Daily Demands

The existing production sources do not meet MDD needs for either existing or build-out customer figures. The connection of Well R-1 to the distribution system will assist the District in meeting minimum California requirements for production. Storage is adequate for meeting MDD in both cases.

Meeting Peak Hourly Demands

The instantaneous demands of PHD for the existing customer count can currently be met, provided all sources are on-line and storage is full. In the event, however, that PHD should be experienced when storage is low, tank recovery, low pressures and delivery issues can arise. PHD for the build-out event cannot be met with the existing sources and storage. The hydraulic model shows that PHD for both the existing and build-out customer figures can be met with Well R-1 connected to the District's distribution system.

Meeting Fire Flow Demands

The District's system cannot currently meet the minimum required fire flows. The hydraulic model shows that the retrofit and connection of Well R-1, the installation of a 40-foot long 8-inch connection from the snow-making line to the distribution system, and the installation of two pressure-reducing valve ("PRV") stations will provide the District's system with enough resources to meet fire flow demands in most of its system. The areas still experiencing fire flow inadequacies were Zone 2 at the Upper Bench/Chateau Place areas, which would require at least 1,200 lineal feet of distribution main replacement (upsizing existing 6-inch pipe with 8-inch pipe), and Zone 1 where the fire hydrants near the Alpine Meadows Ski Lodge cannot meet 1,000 gallons per minute ("gpm"). A solution for meeting fire flows within Zone 1 would be to provide a separate fire booster station for the ski lodge area. Within Zone 3, the Juniper Mountain Booster Station area can also receive 1,000 gallons per minute ("gpm") with the R-1 connection, but will require the installation of a fire booster pump to provide the fire flows within the upper areas. And finally, Zone 4's commercial and condominium areas can also receive 1,500 gpm flows for commercial fire flow requirements, but will require approximately 1,800 lineal feet of distribution main upsizing from 6-inch to 8-inch pipe, due to high and unacceptable velocities within the 6-inch main.

Conclusions and Recommendations

At a minimum, Lumos and Associates recommends that Alpine Springs County Water District connect Well R-1 into its distribution system in order to alleviate existing and build-out MDD and PHD service inadequacies, and most of its fire flow deficiencies. Lumos and Associates recommends the connection of Well R-1 into its distribution system for the following reasons:

- Well R-1 is already in existence and its water quality meets or exceeds the primary and secondary drinking water standards (i.e., the water is readily acceptable for domestic consumption).
- Well R-1 is capable of delivering an average 350 gpm, well over the combined springs' existing average supply capacity of 217 gpm.
- A simple 40-lineal foot, 8-inch pipeline connection (with a 6-inch PRV station) from the snow-making line to the domestic system can alleviate all of the District's existing service inadequacies and most of its fire flow inadequacies.
- Drilling a new horizontal well for a new spring, or even retrofitting the existing springs to minimize outside contamination, would likely be a formidable task due to current environmental and permitting requirements. There is also a chance these specific horizontal well projects may not produce the desired results.
- Additional storage was not considered because the District's existing storage is sufficient to sustain its customers for the duration of the 20-year study period and it is not required to meet minimum California requirements.
- The option of simply storing water in a tank for emergency purposes is not considered good from an operational standpoint as it is generally required that at least the operational volume of the tank be "turned over", or used and replaced with fresh water, within a certain period. The desire is to keep the water as fresh as possible to avoid both bacteriological growth and taste issues.

The District Board is reviewing the cost of retrofitting Well R-1 and connecting the snow-making line to the existing distribution system at the suggested location (the Upper Bench Road/Old Skip Trail connection). The Board is considering multiple funding sources. The Board anticipates that the cost per customer for the retrofit and connection will be in excess of \$50 per year for at least five years. In addition, the District will have to fund infrastructure replacement projects as necessary since the District's water and sewer facilities are fast approaching the end of their service lives, for example, the District will soon need to replace its aging water tanks.