



TO: PSWID Board of Directors

DATE: October 17, 2018

FROM: Cato Esquivel
District Manager

RE: **DISTRICT MANAGERS REPORT**

FLEET

F350

This past week we picked up the utility truck from Miller Auto where they repaired, replaced the front upper and lower ball joints, brake pads, rotors, stabilizer bar bushings, sway bar bushings, stabilizer bar control, shocks, and completed 4-wheel alignment. Total cost for these repairs was \$2,587.00 compared to the \$7,000.00 estimate we had received from another auto repair shop.

Our fleet of utility trucks mechanical difficulties have been addressed.

Polaris Rangers

We picked up the Polaris Ranger 500 from Four Seasons Motor Sports repair shop last week. The engine had a knock that couldn't be explained. The Ranger is still under warranty. Four Seasons Motor Sports is certified and authorized by Polaris to perform warranty work. Four Seasons completely removed and disassembled the engine, rebuild the top end and bottom ends.

The older Ranger 800 gear box, rear differential bearings and seal, need to be removed and replaced. The side-by-side was dropped off at Four Seasons Motor Sports. The estimated cost to make these repairs is approximately \$2,500. We are working with Four Seasons Motor Sports regarding options to replace this Ranger. One option is to trade in both Rangers for a higher horse power Polaris that can better manage and maneuver the terrain in Pine and Strawberry. The estimated cost for a 2016 Polaris 900 side-by-side is around \$9,000. The estimated trade in value for the Ranger 500 is \$4,700.00 and the value for the Ranger 800, when repaired is \$4,200.

AFTER HOUR EMERGENCY CALLS

We had a 2-inch main break in the backyard of a home located on the corner of Eagle Dr and Strawberry Ln, just north of Fossil Creek. We were able to isolate the main between Strawberry Ln east to SR 87 and north of Fossil Creek. This shut down left about 15 homes without water.

Customers in Pine and Strawberry experienced brown or discolored water from their taps.

As may recall, on Tuesday, October 9, we had a 4-inch main break behind the "Old Strawberry Market", adjacent to the Sport Chalet. Then on October 10, the contractor installing the new 4-inch C-900 in Strawberry Knolls 2, south of Fossil Creek and west of SR 87 along Parkinson Dr, broke the existing 4-

inch ABS pipe. Then, after the contractor made the repairs they ran into the existing 4-inch pipe and broke it again. Later that afternoon on October 9th, both Milk Ranch 2 & 3 Wells began pumping brown water.

After the repairs were made in Strawberry Knolls 2 and behind the Strawberry Market, the distribution systems were flushed over an hour. It appears during this time and after, customers began noticing the discolored water from their taps. Flushing after a repair will lead to discolored water, which can be drawn into homes and businesses if the water is being used during or immediately following a flushing of a repaired main. Flushing can also disturb accumulated minerals, sediment, or rust that accumulates in the water mains.

Regarding Milk Ranch Wells 2 & 3, on October 11th at about 8 a.m., the District was made aware of the discolored water from customers along SR 87 in Pine. We immediately took Milk Ranch Well 2 offline. Regarding Milk Ranch Well 2, it appears after the recent rains either the concrete around the well is not sufficient or there is a hole in the casing above the concrete line or gravel packing. Surface infiltration or water level dropping may be another contributing factor. But generally, surface infiltration of rain water is due to impaired pump and casing system. We are continuing our investigation to determine the cause.

On October 11th a 4-inch SCH 80 main broke in Ellison Rd between Ellison Dr and Prince Dr. The break was adjacent to the school telecommunications tower. The area where the break occurred had existing fiber and power. The communication tower was also in the process of being rewired and upgraded.

OPERATIONS

Tank Telecommunication

We are in the process of upgrading our telecommunication system which we use to monitor the levels and operation of eight tank sites. We will be adding 4 new tank sites (SV1, Pine Ranch 1, Hardscrabble Mesa and Milk Ranch).

The new Verizon hardware unit will be able to choose the best coverage in that area and use it to report tank information. Thus, a unit may report on VZW for a week and AT&T, T-Mobile, or even Sprint for a week or even a day. We no longer need to order a monitor for the service specific to that area, instead, the new unit will choose which is the strongest signal and uses that carrier to report the associated tank information.

The extremely efficient CatM1 LTE modem is power efficient and powered by 3 off-the-shelf AA Energizer Ultimate Lithium batteries. These will last about 4 years when reporting over the Wi-Fi and or good cellular coverage. It also has a local LCD, so operators can simply activate the unit on site and receive real time tank levels.

The unit also has a built in Micro Solar panel that charges a set of super capacitors capable of 500K power cycles. The 3 AA batteries are used only for backup power. Even if they are covered in a foot of snow for weeks on end, the batteries will not be drained. The monitors will be mounted on the sidewall of the tank or on a vent pipe to minimize weather exposure.

The F100M is roughly the size of two iPhones stacked on top of one another, so it has an extremely low profile and is super lightweight.

Strawberry Hollow Well No. 2

We are also considering refurbishing Strawberry Hollow Well No. 2. We are planning on removing and replacing the pump and motor. We are also going to conduct a 24-hour pump test to better understand the potential draw down of the well. We also anticipate using a bailer to remove sand and gravel at the bottom of the well.

Milk Ranch Well No. 2

We determined, after further investigation, that the dirt, and sand that we encountered on October 11th was coming from Milk Ranch Well No. 2. We also discovered that the pump and motor are no longer operating. We plan on removing the pump and motor within the next three weeks, weather permitting to allow us to inspect and determine what the potential issues are and develop an action plan to address the problem.

Well Static Level Report (Attachment C)

Attached for your information.

Please note that some static levels have increased between 50 – 100 feet with some of our wells.

PROPOSED DEVELOPMENTS

Rimside Village (Attachment A)

The development will be a collection of contemporary 1-bedroom residences features designer interiors, upgraded appliances, wood floors, generous bathroom suites and private patios and up to 800 square feet of indoor living space.

Water modeling, conceptual design, and elevations are expected to begin within the next 30-days. There is an existing 6-inch main in Old County Rd, so we anticipate installing a 4-inch tee that will extend into the proposed development. A 2-inch service line will be tapped into the 4-inch line to provide water services to the property.

Conceptually, the District will add the 4-inch tap and service line onto the Rim Vista & Pine Haven construction project. The District will be reimbursed for the improved infrastructure when the development receives its permit to construct.

Eagle Glen (Attachment B)

Conceptually the developer is considering building and completing Phase II. Phase I of Eagle Glen was designed and constructed in 1986. The entire infrastructure was installed in 1986 to accommodate the entire development. This infrastructure associated with Phase II will need to be pressure tested and chlorinated before we can proceed with Phase II development. They will also need to bring the existing water infrastructure up to existing MAG, AWWA standards. In addition, structural roadway deficiencies will need to be address along with other existing utility deficiencies. Initially, they are anticipating building six units to complete Phase I.

As part of their development the District will require that they extend the existing 4-inch C-900 in Ellison Dr and tie the main into the Eagle Glen distribution system. We will also require that they tie into the existing 4-inch main in Hardscrabble Mesa Rd at two locations.